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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 2021/09/27 -

2021/07205 ~ Complete ~54:ANTI-SEMA3A ANTIBODIES AND THEIR USES FOR TREATING EYE OR OCULAR DISEASES ~71:BOEHRINGER INGELHEIM INTERNATIONAL GMBH, Binger Strasse 173, Germany ~72: BARRETT, Rachel, Rebecca;BOVAT, Kristin, Laura;GANESAN, Rajkumar;GUPTA, Priyanka;HAN, Fei;LIU, Dongmei;PRESTLE, Juergen;SINGH, Sanjaya;THOMAS, Leo;VENKATARAMANI, Sathyadevi;WU, Helen, Haixia;ZIPPEL, Nina~ 33:EP ~31:19173454.0 ~32:09/05/2019

2021/07502 ~ Provisional ~54:NERVE STIMULATION APPARATUS ~71:SONJA PRETORIUS, 4 PONDA ROSA, 110 OUKLIPMUUR AVENUE,, South Africa ~72: ANTON LUBBE~

2021/07226 ~ Complete ~54:SYSTEMS AND METHODS FOR VEHICLE EVENT DETECTION ~71:CalAmp Corp., 15635 Alton Parkway, Suite 250, IRVINE 92618, CA, USA, United States of America ~72: PATTON, David B.~

2021/07189 ~ Complete ~54:AUTOMATIC DRIVE ROAD CONDITION NAVIGATION METHOD AND SYSTEM BASED ON 5G NETWORK AND MEDIUM ~71:JINAN GOLDENWORLD HIGHWAY INDUSTRY DEVELOPMENT CO., LTD, No.1188 Tianchen Street, High-Tech Zone Jinan, Shandong, 250101, People's Republic of China ~72: CHEN, Cuijiao;LI, Shuo;LI, Yubao;LIU, Zhentao;XU, Yongli;ZHOU, Peng~ 33:CN ~31:202111056139.4 ~32:09/09/2021

2021/07195 ~ Complete ~54:CORN NO-TILLAGE SUBSOILING LAYERED FERTILIZATION PRECISION SOWING MACHINE ~71:Qingdao Agricultural University, 700 Great Wall Road,, Chengyang District,, Qingdao,, Shandong Province,, People's Republic of China ~72: Li, Jun;Liu, Jintao;Liu, Shutang;Wang, Zhiqiang;Wei, Wenliang;Yu, Chunkai;Zhao, Longgang~

2021/07223 ~ Complete ~54:DRILL STRING ROD ~71:Sandvik Mining and Construction Tools AB, Sandvik Mining and Construction Tools AB, SANDVIKEN 81181, SWEDEN, Sweden ~72: ANDERSSON, Erik;WICKSTRÖM, David~ 33:EP ~31:19176255.8 ~32:23/05/2019

2021/07235 ~ Complete ~54:COMPOSITIONS AND METHODS FOR TREATING OCULAR DISEASE ~71:ASCLEPIX THERAPEUTICS, INC., 301 West 29th Street, Suite 2004, Baltimore, Maryland, 21211, United States of America ~72: NIRANJAN B PANDEY~ 33:US ~31:62/824,017 ~32:26/03/2019

2021/07230 ~ Complete ~54:HEXAHYDRO-1H-PYRAZINO[1,2-A]PYRAZINE COMPOUNDS FOR THE TREATMENT OF AUTOIMMUNE DISEASE ~71:F. Hoffmann-La Roche AG, Grenzacherstrasse 124, BASEL 4070, SWITZERLAND, Switzerland ~72: DAI, Lue;DEY, Fabian;KOU, Buyu;LIU, Haixia;LIU, Yafei;LIU, Yongfu;SHEN, Hong;ZHANG, Zhisen;ZHANG, Zhiwei;ZHU, Linuo;ZHU, Wei~ 33:IB ~31:2019/081900 ~32:09/04/2019;33:IB ~31:2019/121598 ~32:28/11/2019;33:IB ~31:2020/078225 ~32:06/03/2020

2021/07253 ~ Complete ~54:LIDAR MEASURING APPARATUS AND METHOD FOR SMART CITIES
~71:BEIJING UNIVERSITY OF CIVIL ENGINEERING AND ARCHITECTURE, NO.1 ZANLANGUAN ROAD,
XICHENG DISTRICT, People's Republic of China ~72: GAO, Chutian;GUO, Kecai;GUO, Ming;JIANG, Jie;WANG,
Guoli~ 33:CN ~31:202111094135.5 ~32:17/09/2021

2021/07149 ~ Provisional ~54:ANTI-THEFT SECURITY DEVICE ~71:Hendrik Mostert, 50 Yellowstone Complex,
Narcissus Street, Weltevredenpark, Roodepoort, South Africa ~72: Hendrik Mostert~

2021/07170 ~ Complete ~54:METAL DOME STAMPING DIE ~71:ANHUI UNIVERSITY OF SCIENCE AND
TECHNOLOGY, No. 168 Taifeng Road, Huainan, Anhui, 232001, People's Republic of China ~72: HU,
Guanghui;LI, Xiaokai;XU, Chao;ZHANG, Guorong~

2021/07192 ~ Complete ~54:OLIGO DNA GROUP OF SGRNA FOR TARGETED KNOCKING-OUT OSAUR2
GENE OF RICE BASED ON CRISPR-CAS9 TECHNOLOGY ~71:Jiangxi Agricultural University, No.1101 Zhimin
Road, Nanchang City, Jiangxi Province, People's Republic of China ~72: He Haohua;He Xiaopeng;Jiang
Zhishu;Lin Xiaoli;Liu Jialong;Peng Limei;Peng Xiaosong;Song Yongping;Xu Jie;Zhou Dahu;Zhu Changlan~

2021/07203 ~ Complete ~54:(1-5)-GAL-(1-6)-MAN GLYCOPROTEIN, PREPARATION METHOD THEREFOR
AND USE THEREOF ~71:JINAN SAMUEL PHARMACEUTICAL CO., LTD, Room 1106, Jinan Pharma Valley
Building 2, No. 1 Gangxing 3rd Road, Shandong, People's Republic of China ~72: GAO, Jian;LI, Wenju;LI,
Xiuzhen;TANG, Pengfei;WU, Xiaole;ZHUANG, Yongzhong~ 33:CN ~31:201911065356.2 ~32:04/11/2019

2021/07209 ~ Complete ~54:REMOTE POSITIONING METHOD FOR SERVER, COMPUTER DEVICE, AND
STORAGE MEDIUM ~71:CHAOYUE TECHNOLOGY CO., LTD, No. 2877 Kehang Road, Suncun Town, High-
Tech Zone Jinan, Shandong, 250104, People's Republic of China ~72: HUANG, Gang;LI, Dushan;LIU, Lei~
33:CN ~31:202010057624.2 ~32:19/01/2020

2021/07175 ~ Complete ~54:HIGH-PERFORMANCE SERVO MOTOR ~71:ANHUI UNIVERSITY OF SCIENCE
AND TECHNOLOGY, No. 168 Taifeng Road, Huainan, Anhui, 232001, People's Republic of China ~72: HU,
Guanghui;LI, Xiaokai;LU, Kaiwen;XU, Chao;ZHANG, Guorong~

2021/07187 ~ Complete ~54:FEED ADDITIVE FOR IMPROVING PRODUCTION PERFORMANCE OF MEAT
RABBITS ~71:Institute of Animal Husbandry and Veterinary Medicine, Shandong Academy of Agricultural
Sciences, No. 202, Gongye North Road, Licheng Dist., Jinan City, Shandong, People's Republic of China ~72: Ce
Liu;Gongyan Liu;Haitao Sun;Hong Han;Liping Yang;Liya Bai;Man Liu;Mingyong Li;Shuxia Gao~

2021/07194 ~ Complete ~54:CANTILEVER TYPE PLANE AUTOMATIC ADHESIVE TAPE APPLYING DEVICE
~71:Qingdao University of Science and Technology, No.53 Zhengzhou Rd, Shibei District, Qingdao, Shandong,
266000, People's Republic of China ~72: DU, Qin;FENG, Yuwei;LI, Yi;NIE, Chenxi;WANG, Luyao;WANG,
Shuo;WEN, Shibao;YU, Leilei~ 33:CN ~31:202110224923. 5 ~32:01/03/2021

2021/07180 ~ Complete ~54:SOLID WASTE INCINERATION PROCESSING DEVICE IN PLATEAU AREA
~71:Tibet University, No. 10, Zangda East Road, Chengguan District, Lhasa City, Tibet, 850000, People's
Republic of China ~72: BU, Duo;DAN, Zeng;FENG, Wenli;LI, Wei;LV, Xuebin;REN, Guoquan;XIONG, Jian~
33:CN ~31:202120295093.0 ~32:02/02/2021

2021/07183 ~ Complete ~54:PHOTOACOUSTIC CELL WITH ANTI-NOISE FUNCTION ~71:ANHUI UNIVERSITY
OF SCIENCE AND TECHNOLOGY, No. 168 Taifeng Road, Huainan, Anhui, 232001, People's Republic of China
~72: CAO, Jianbing;CAO, Yanan;CHEN, Jie;CHENG, Gang;SONG, Donghua;TIAN, Xing;ZHOU, Junpeng~

2021/07207 ~ Complete ~54:COMPOUNDS AND METHODS FOR MODULATING UBE3A-ATS ~71:IONIS PHARMACEUTICALS, INC., 2855 Gazelle Court, Carlsbad, United States of America ~72: BUI, Huynh-Hoa;FREIER, Susan M;JAFAR-NEJAD, Paymaan;RIGO, Frank~ 33:US ~31:62/826,521 ~32:29/03/2019;33:US ~31:62/877,765 ~32:23/07/2019

2021/07215 ~ Complete ~54:A SOLVENT DRYING COMPOSITION AND PROCESSES THEREFOR ~71:AQUAFORTUS TECHNOLOGIES LIMITED, 3A Airpark Drive, Mangere, New Zealand ~72: PRAKASH, Chairtra;TANG, Haiming~ 33:US ~31:62/828,607 ~32:03/04/2019;33:US ~31:62/828,668 ~32:03/04/2019;33:US ~31:62/867,488 ~32:27/06/2019

2021/07252 ~ Complete ~54:FERMENTED TREMELLA FUCIFORMIS BERK PULP TYPE FROZEN JAM WITH EFFECTS OF PROMOTING BLOOD CIRCULATION AND BEAUTIFYING SKIN AND PREPARATION METHOD THEREOF ~71:JILIN AGRICULTURAL UNIVERSITY, NO. 2888 XINCHENG AVENUE, JINGYUE DISTRICT, People's Republic of China;JILIN YANGYIDUO TECHNOLOGY CO., LTD., ROOM 1409, BUILDING 1, ZHENG DA CUBE EDIFICE, JINGYUE DEVELOPMENT ZONE, People's Republic of China ~72: JUNMEI LIU;KEQIN LIU;SAINAN LIU;SHUANG LI;XUE LI;ZHILI SHENG;ZHUOWEI LI~

2021/07167 ~ Complete ~54:TECHNOLOGY OF SEPARATING URACIL FROM PHELLINUS FUNGUS ~71:Qingdao Agricultural University, 700 Great Wall Road,, Chengyang District, , Qingdao, , Shandong Province,, People's Republic of China ~72: Chen Zhao;Miao Zhang~

2021/07171 ~ Complete ~54:METHOD FOR PREDICTING SECURITY CAPACITY PERFORMANCE OF MOBILE COMMUNICATION SYSTEM ~71:Qingdao University of Science and Technology, No. 99, Songling Road, Laoshan District, Qingdao City, Shandong Province, 266061, People's Republic of China ~72: DUAN, Yanyan;HUANG, Lingling;LI, Hui;TAO, Ye;XU, Lingwei;YU, Xu;ZHOU, Xinpeng~ 33:CN ~31:202110357718.6 ~32:01/04/2021

2021/07255 ~ Complete ~54:ELECTRONIC INSTRUMENT DETECTION COMPONENT FOR AVIATION ~71:BINZHOU COLLEGE, NO. 391, Huanghe Wulu, Binzhou City,, People's Republic of China ~72: WANG, Zhonglin~

2021/07150 ~ Provisional ~54:AQUANATOR ~71:VAN DER WESTHUIZEN, Hermanus Quinton, 32 Alaric Road, Valhalla, CENTURION 0157, SOUTH AFRICA, South Africa ~72: VAN DER WESTHUIZEN, Hermanus Quinton~

2021/07156 ~ Complete ~54:POROUS CARBON-BASED CATALYST BASED ON HOLLOW ZSM-5 AND PREPARATION METHOD THEREOF ~71:Qingdao University of Science and Technology, No.53, Zhengzhou Rd, Qingdao, Shandong, 266042, People's Republic of China;Weifang Guanghua Fine Chemical Co., Ltd., No.399, Xinhai Street, Binhai Economic Development Zone, Weifang City, Shandong Province, 261041, People's Republic of China ~72: LI, Bin;LIU, Jie;MA, Yiru;QU, Huiqi;WANG, Lei;XIAO, Zhenyu~ 33:CN ~31:202110080103.3 ~32:21/01/2021

2021/07210 ~ Complete ~54:CREDIBILITY AUTHENTICATION METHOD FOR SDN NODES ~71:CHAOYUE TECHNOLOGY CO., LTD, No. 2877 Kehang Road, Suncun Town, High-Tech Zone Jinan, Shandong, 250104, People's Republic of China ~72: CHAI, Pingping;HUANG, Gang;LIU, Qiang~ 33:CN ~31:201910985245.7 ~32:16/10/2019

2021/07237 ~ Provisional ~54:TRIP WIRE ALARM ~71:THOMAS VALENTIN DIETRICH SPOERER, 169 PECAN LANE, TIMSRAND, CENTURION,, South Africa ~72: THOMAS VALENTIN DIETRICH SPOERER~

2021/07216 ~ Complete ~54:VERIFIABLE ACCESS CREDENTIAL ~71:SICPA HOLDING SA, Avenue de Florissant 41, PRILLY 1008, SWITZERLAND, Switzerland ~72: CALLEGARI, Andrea;DESPLAND, Claude-

Alain;DINOEV, Todor;DORIER, Jean-Luc;FANKHAUSER, Catherine;LOGINOV, Evgeny;NICOLOV, Kalin;SUICHIES, Bart~ 33:EP ~31:19160137.6 ~32:28/02/2019

2021/07229 ~ Complete ~54:CUSTOMIZABLE POWER CONVERTER AND CUSTOMIZABLE POWER CONVERSION SYSTEM ~71:General Electric Company, 1 River Road, SCHENECTADY 12345, NY, USA, United States of America ~72: ELASSER, Ahmed;HOFER, Douglas Carl;RAMABHADRAN, Ramanujam;ZHANG, Zheyu~

2021/07217 ~ Complete ~54:METHOD FOR AUTHENTICATING A MAGNETICALLY INDUCED MARK WITH A PORTABLE DEVICE ~71:SICPA HOLDING SA, Avenue de Florissant 41, PRILLY 1008, SWITZERLAND, Switzerland ~72: CALLEGARI, Andrea;DESPLAND, Claude-Alain;DINOEV, Todor;DORIER, Jean-Luc;HALASZ, Edmund;LOGINOV, Evgeny~ 33:EP ~31:19160146.7 ~32:28/02/2019

2021/07250 ~ Complete ~54:PREPARATION METHOD OF HYDRODESULFURIZATION CATALYST ~71:QINGDAO UNIVERSITY OF SCIENCE AND TECHNOLOGY, NO.99 SONGLING ROAD, People's Republic of China ~72: BING, LIANCHENG;HAN, DEZHI;LI, QINGHONG;WANG, FANG;WANG, GUANGJIAN~ 33:CN ~31:202110241314.0 ~32:04/03/2021

2021/07173 ~ Complete ~54:METHOD FOR IMPROVING THE SURVIVAL RATE OF THE GRAFTED REPRODUCTION OF THE PINUS BUNGEANA ZUCC. VARIANT TYPE ~71:Research Institute of Forestry, Chinese Academy of Forestry, No.1 Dongxiaofu, Qinglongqiao Street, Haidian district, Beijing, People's Republic of China ~72: Guo Wenying;Huang Ping;Li Bin;Lin Furong;Zheng Yongqi~

2021/07176 ~ Complete ~54:AUTOMATIC LUBRICATING SYSTEM AND METHOD FOR POWER BEARING OF WASHING MACHINE ~71:Shijiazhuang Meidi Washing Equipment Co., Ltd., No. 10-1, Beihou Street, Xinhua District, Shijiazhuang City, Hebei Province, 050050, People's Republic of China ~72: SUN, Wenjin;YIN, Bowen;ZHANG, Baolun~ 33:CN ~31:202110311085.5 ~32:24/03/2021

2021/07178 ~ Complete ~54:MULTI-PARAMETER INTELLIGENT ACQUISITION SYSTEM FOR VIBRATION OF HEAVY-HAUL RAILWAY TRAINS ~71:Northwest University, Taibai North Street 229, in Beilin District, Xi'an, Shanxi Province, People's Republic of China ~72: Dong Haoyu;Gu Tianfeng;Wang Fei;Wang Jiading~

2021/07185 ~ Complete ~54:MEDICAL MONITORING SYSTEM AND APPLICATION, MEDICAL MONITORING DEVICE AND MONITORING-ALARMING METHOD ~71:Chongqing University Cancer Hospital, No. 181, Hanyu Road, Shapingba Dist., Chongqing, People's Republic of China ~72: Cheng Li;Hairong Xiong;Hongzhu Tao;Huan Zhang;Jian Huang;Jing Zhao;Meng Lin;Xiaohua Zeng;Yadi Li~

2021/07197 ~ Complete ~54:METHOD FOR PROMOTING ORNAMENTAL TRAITS OF CALENDULA OFFICINALIS BY USING COMPOUND MICROBIAL INOCULUM ~71:QINGDAO AGRICULTURAL UNIVERSITY, No. 700 Changcheng Road, Chengyang District, Qingdao, People's Republic of China ~72: LI, Haimei;LI, Shimei;LI, Wei;LI, Yanhua;LIANG, Hong;XU, Lina;XU, Wanpei~

2021/07159 ~ Complete ~54:METHOD FOR DETECTING THE CONSENSUS OF MULTI-AGENT SYSTEMS ~71:Huainan Normal University, Dongshan West Road, Tianjiaan District, Huainan City, Anhui Province, People's Republic of China ~72: Du Jun;Wang Limin;Xiang Wei~

2021/07166 ~ Complete ~54:AN ELECTRONIC CABLE TAG ~71:FRANCOIS JOHANNES JACOB, BOTHA, 89 Ibex Street, The Wilds, South Africa ~72: BOTHA, JACOB JOHANNES FRANCOIS;NETO, MICAEL~

2021/07228 ~ Complete ~54:WEED SEED DESTRUCTION ~71:Tritana Intellectual Property Ltd., Box 178A R.R. # 4, SASKATOON S7K 3J7, SK, CANADA, Canada ~72: MAYERLE, Dean~ 33:US ~31:62/818,417 ~32:14/03/2019

2021/07231 ~ Complete ~54:PYRROLE COMPOUNDS ~71:Aligos Therapeutics, Inc., 1 Corporate Drive, 2nd Floor, SOUTH SAN FRANCISCO 94080, CA, USA, United States of America;Emory University, 1599 Clifton Road NE, 4th Floor, Mailstop 1599/001/1AZ, ATLANTA 30322, GA, USA, United States of America ~72: AMBLARD, Franck;BASSIT, Leda;BEIGELMAN, Leonid;SCHINAZI, Raymond F.;SEREBRYANY, Vladimir;SMITH, David Bernard;VENDEVILLE, Sandrine~ 33:US ~31:62/828,919 ~32:03/04/2019;33:US ~31:62/932,686 ~32:08/11/2019

2021/07151 ~ Provisional ~54:SQSCAN ~71:Onkagile Lefakane, 24 Buitenpark Van Vuuren Street, South Africa ~72: Onkagile Lefakane~

2021/07152 ~ Complete ~54:ORNIDAZOLE PHARMACEUTICAL COCRYSTAL AND PREPARATION METHOD THEREOF ~71:Qingdao University of Science and Technology, No.53 Zhengzhou Rd, Qingdao, Shandong, 266042, People's Republic of China ~72: DU, Yunmei;SUN, Yuxin;WANG, Lei;ZHANG, Yaping~ 33:CN ~31:202110601799.X ~32:31/05/2021

2021/07155 ~ Complete ~54:ZSM-5/TIO₂ COMPOSITE MATERIAL AND PREPARATION METHOD THEREOF ~71:Frontier Institute of Nano and Micro Science (Qingdao) Co., Ltd., Room 515, Building 1, No. 51-2, Wuyang Road, Shibei District, Qingdao, Shandong, 266001, People's Republic of China;Qingdao University of Science and Technology, No.53 Zhengzhou Rd, Qingdao, Shandong, 266042, People's Republic of China ~72: FENG,Shouhua;FU, Ziqi;GUO, Ziyang;LIU, Jia;WANG, Fupeng;WANG, Lei~ 33:CN ~31:202110756320. X ~32:05/07/2021

2021/07163 ~ Complete ~54:TWO TARGETED KNOCKOUT OLIGO DNA GROUPS OF THE SGRNA OF RICE OSMAP65-3.1 GENE ~71:Jiangxi Agricultural University, No.1101 Zhimin Road, Nanchang City, Jiangxi Province, People's Republic of China ~72: Fu Haihui;Fu Junru;He Haohua;Jiang Zhishu;Lin Xiaoli;Peng Limei;Qiu Jiao;Song Yongping;Xu jie;Zhou Dahu;Zhu Changlan~

2021/07211 ~ Complete ~54:METHOD AND APPARATUS FOR MEASURING SECURITY OF HARD DISK OF SERVER ~71:CHAOYUE TECHNOLOGY CO., LTD, No. 2877 Kehang Road, Suncun Town, High-Tech Zone Jinan, Shandong, 250104, People's Republic of China ~72: FENG, Lei;MENG, Xianxin;YU, Zhilou~ 33:CN ~31:202010084838.9 ~32:10/02/2020

2021/07147 ~ Provisional ~54:ELECTRONICS WATER SYSTEM ~71:Service Address, 7 Dragonwyck, St George's Street, South Africa;Yamkela Nkosiaphantsi, 7 Dragonwyck, St George's Street, South Africa ~72: Yamkela Nkosiaphantsi~

2021/07162 ~ Complete ~54:TWO OLIGO DNA GROUPS FOR TARGETED KNOCKING OUT SGRNA OF RICE OSMAP65-3.2 GENE ~71:Jiangxi Agricultural University, No.1101 Zhimin Road, Nanchang City, Jiangxi Province, People's Republic of China ~72: Cai Yicong;Chen Xiaorong;Fu Junru;He Haohua;Jiang Zhishu;Lin Xiaoli;Peng Limei;Song Yongping;Xu Jie;Zeng Chuihai;Zhu Changlan~

2021/07191 ~ Complete ~54:ROAD MAINTENANCE METHOD AND DEVICE BASED ON 5G ~71:JINAN GOLDENWORLD HIGHWAY INDUSTRY DEVELOPMENT CO., LTD, No.1188 Tianchen Street, High-Tech Zone Jinan, Shandong, 250101, People's Republic of China ~72: LI, Yubao;SUN, Qingwen;WANG, Wenjing;YU, Yue;ZHANG, Jiahua;ZHANG, Zhenyu~ 33:CN ~31:202111057466.1 ~32:09/09/2021

2021/07168 ~ Complete ~54:SURVEYING INSTRUMENT BASED ON SATELLITE POSITIONING SYSTEM
~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, No. 168 Taifeng Road, Huainan, Anhui, 232001,
People's Republic of China ~72: BIAN, Tingyu;LI, Dong;LI, Jingxian;WANG, Yi~

2021/07204 ~ Complete ~54:CENTRIFUGAL SPINNING APPARATUS AND PLANAR RECEIVING-TYPE
CENTRIFUGAL SPINNING AUTOMATIC PRODUCTION DEVICE ~71:WUHAN TEXTILE UNIVERSITY,
Sunshine Avenue, Jiangxia District, Wuhan, Hubei, 430200, People's Republic of China;YIMAO
ENVIRONMENTAL TECHNOLOGY CO., LTD., North of Fudan Road Sucheng Economic Development Zone,
Suqian, Jiangsu, 223800, People's Republic of China ~72: CHEN, Taizhao;LI, Chen;LIU, Xin;SONG,
Baoliang;WANG, Yafei;WU, Longtao;WU, Zihang;XU, Weilin~ 33:CN ~31:201910431022.6
~32:22/05/2019;33:CN ~31:201910431025.X ~32:22/05/2019;33:CN ~31:201910431532.3 ~32:22/05/2019

2021/07219 ~ Complete ~54:HIGH-THROUGHPUT METHODS FOR ISOLATING AND CHARACTERIZING
AMMONIUM-EXCRETING MUTANT LIBRARIES GENERATED BY CHEMICAL MUTAGENESIS ~71:Pivot Bio,
Inc., 2910 Seventh Street, BERKELEY 94710, CA, USA, United States of America ~72: ESKIYENENTURK, Bilge
Ozaydin;RYU, Min-Hyung;TAMSIR, Alvin~ 33:US ~31:62/838,780 ~32:25/04/2019

2021/07153 ~ Complete ~54:UVC-LED-ULTRASONIC WAVE COMBINED STERILIZATION DEVICE
~71:Zhejiang University, 866 Yuhangtang Rd, Hangzhou, 310058, People's Republic of China ~72: CHEN,
Shiguo;DING, Tian;LIAO, Xinyu;LIU, Donghong;YE, Xingqian~

2021/07190 ~ Complete ~54:EXPRESSWAY METEOROLOGICAL EARLY-WARNING METHOD AND DEVICE
BASED ON 5G COMMUNICATION AND MEDIUM ~71:JINAN GOLDENWORLD HIGHWAY INDUSTRY
DEVELOPMENT CO., LTD, No.1188 Tianchen Street, High-Tech Zone Jinan, Shandong, 250101, People's
Republic of China ~72: LI, Yubao;SUN, Tingting;WANG, Xiaotong;WANG, Yilong;YANG, Kuijun;YU, Yue~ 33:CN
~31:202111057431.8 ~32:09/09/2021

2021/07199 ~ Complete ~54:IMAGE SENSOR STRUCTURE ~71:ILLUMINA, INC., 5200 Illumina Way, San
Diego, California, 92122, United States of America ~72: ALI AGAH;DIETRICH DEHLINGER;TRACY H
FUNG;XIUYU CAI~ 33:US ~31:62/610,354 ~32:26/12/2017;33:NL ~31:2020615 ~32:19/03/2018

2021/07208 ~ Complete ~54:FABRY-PÉROT INTERFERENCE-BASED OPTICAL FIBER HEAVY METAL ION
SENSOR ~71:Guangdong Ocean University, No1 Haida Road Mazhang Area, Zhanjiang, Guangdong, People's
Republic of China;Guangzhou Gahoo Testing Service Co., Ltd, No140-148 Tiyaodonglu Tianhe Area, Guangzhou,
Guangdong, People's Republic of China ~72: Chen Zhishan;Lai Xuehui;Li Sidong;Luo Yuanzheng;Tian
Xiuyun;Wang Wenhua;Wu Shengxu;Wu Weina;Zhou Yuhua~ 33:CN ~31:202010184445.5 ~32:17/03/2020

2021/07220 ~ Complete ~54:HOUSING AND CARTOMISER FOR AN AEROSOL PROVISION SYSTEM
~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM,
United Kingdom ~72: MASIH-UD-DIN, Mohsin;SUTTON, Joseph;TRAN, My-Linh~ 33:GB ~31:1905539.1
~32:18/04/2019

2021/07232 ~ Complete ~54:IMPLANTS, SYSTEMS, AND METHODS OF USE ~71:Paragon 28, Inc., 14445
Grasslands Drive, ENGLEWOOD 80112, CO, USA, United States of America ~72: MAJORS,
Benjamin;MLADINICH, Peter Andrew;ROGGOW, Kenneth Allan;WILLIAMS, Thomas R.~ 33:US ~31:62/812,247
~32:28/02/2019

2021/07251 ~ Complete ~54:PREPARATION METHOD OF PHOSPHIDE HYDROGENATION CATALYST
~71:QINGDAO UNIVERSITY OF SCIENCE AND TECHNOLOGY, NO.99 SONGLING ROAD, People's Republic
of China ~72: BING, LIANCHENG;CHEN, GUOLIANG;HAN, DEZHI;WANG, FANG;WANG, GUANGJIAN~ 33:CN
~31:202110241298.5 ~32:04/03/2021

2021/07177 ~ Complete ~54:PROCESS FOR SYNTHESIZING 2,3-DIACYLQUINOLINE COMPOUND
~71:JIANGNAN UNIVERSITY, No. 1800, Lihu Avenue, 214122, Jiangsu, 214122, People's Republic of China
~72: LIU, Shuang;MA, Chengwei;REN, Fei;SHAO, Zeyu;SONG, Yingying;WANG, Cheng;ZOU, Lianghua~ 33:CN
~31:202011506295.1 ~32:18/12/2020

2021/07225 ~ Complete ~54:METHOD FOR STERILIZING AND DECONTAMINATING POST-CONSUMER
ABSORBENT SANITARY PRODUCTS POLLUTED WITH ORGANIC COMPOUNDS DERIVED FROM HUMAN
METABOLISM ~71:Fater S.p.A., Via Mare Adriatico 122, SPOLTRE (PE) 65010, ITALY, Italy ~72: CARUSO,
Tonino;D'ALESSIO, Nicola;PALOMBI, Laura;PIGNALOSA, Giorgio;SOMMA, Marcello;VACCARO, Giorgio~
33:IT ~31:102019000010062 ~32:25/06/2019

2021/07233 ~ Complete ~54:METHOD AND APPARATUS FOR PRODUCING A DISPENSING PART OF A
CONTAINER, AND DISPENSING PART OF A CONTAINER ~71:SACMI COOPERATIVA MECCANICI IMOLA
SOCIETÀ COOPERATIVA, Via Selice Provinciale 17/A, 40026, Imola (Bologna), Italy ~72: FABRIZIO
PUCCI;FIORENZO PARRINELLO~ 33:IT ~31:102019000005206 ~32:05/04/2019

2021/07181 ~ Complete ~54:MUNICIPAL RAINWATER PURIFYING DEVICE ~71:Tibet University, No. 10,
Zangda East Road, Chengguan District, Lhasa City, Tibet, 850000, People's Republic of China ~72: BU,
Duo;DAN, Zeng;LI, Wei;LV, Xuebin;WANG, Yilin;XIONG, Jian;ZHANG, Qiangying~ 33:CN ~31:202120118528.4
~32:18/01/2021

2021/07186 ~ Complete ~54:TRADITIONAL CHINESE MEDICINE COMPOSITION FOR TREATING SORE
MOUTH ~71:QIN, Xianhao, 060 Chengdong Road, Liupai Town, Tian'e County, Hechi City, Guangxi Zhuang
Autonomous Region, 547300, People's Republic of China ~72: QIN, Xianhao~

2021/07193 ~ Complete ~54:MIMO RADAR SYSTEM FOR AN AERIAL VEHICLE ~71:HENSOLDT SENSORS
GMBH, Willy-Messerschmitt-Straße 3, Germany ~72: HAIDE, Manuel~ 33:EP ~31:20 199 968.7
~32:03/10/2020

2021/07172 ~ Complete ~54:BACK PLATE STRUCTURE, BACK PLATE MANUFACTURING MOULD AND
PRODUCTION PROCESS FOR PREVENTING BRAKE PAD FROM FALLING OFF ~71:Yantai Xingchuang
Automobile Parts Co., Ltd., Huafeng Park No.2 Lvjie Road, Longkou High-tech Industrial Park, Yantai City,
Shandong Province, 265718, People's Republic of China ~72: DU, Po;FENG, Xingping;YUAN, Kaixu~ 33:CN
~31:202011063374.X ~32:30/09/2020

2021/07249 ~ Complete ~54:PREPARATION METHOD FOR 3DOM BULK HYDROGENATION CATALYST
~71:QINGDAO UNIVERSITY OF SCIENCE AND TECHNOLOGY, NO.99 SONGLING ROAD, LAOSHAN
DISTRICT, People's Republic of China ~72: DEZHI HAN;FANG WANG;GUANGJIAN WANG;LIANCHENG
BING;WENPENG XIE~ 33:CN ~31:202110241521.6 ~32:04/03/2021

2021/07254 ~ Complete ~54:SPHERICAL SPATIAL DATA MEASUREMENT DEVICE AND AUTOMATIC
FEATURE EXTRACTION METHOD ~71:BEIJING UNIVERSITY OF CIVIL ENGINEERING AND
ARCHITECTURE, NO.1 ZANLANGUAN ROAD, XICHENG DISTRICT, People's Republic of China ~72: GUO,
Ming;HUANG, Huimin;JIANG, Jie;PAN, Deng~ 33:CN ~31:202111094271.4 ~32:17/09/2021

2021/07158 ~ Complete ~54:THE CONCHOCCELIS GERMLASM PREPARATION METHOD FOR BANGIA
FUSCOPURPUREA ~71:Jiangsu Marine Fisheries Research Institute, No 31, Jiaoyu Road, Nantong, Jiangsu,
People's Republic of China ~72: Deng Yinyin;Hu Chuanming;Tian Cuicui;Xu Guangping;Zhou Wei~

2021/07161 ~ Complete ~54:APPLICATION METHOD OF NOVEL COMPOUND IN IMPROVING THE
RESISTANCE OF PLANTS TO SOIL ACID STRESS ~71:Qingdao Agricultural University, No. 700 Changcheng

Road, Chengyang District, Qingdao City, Shandong Province, People's Republic of China ~72: Ma Changqing;Sun Zhijuan;Tian Yike;Wang Caihong;Zheng Xiaodong~

2021/07169 ~ Complete ~54:COAL MINE TRANSPORTATION DEVICE WITH TRANSPORTATION ROUTE PLANNING FUNCTION ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, No. 168 Taifeng Road, Huainan, Anhui, 232001, People's Republic of China ~72: GUO, Yongcuni;HU, Kun;LI, Deyong;MA, Xin;WANG, Shuang;WANG, Wenshan~

2021/07182 ~ Complete ~54:INTELLIGENT SPRAYING TROLLEY FOR REPAIRING HORIZONTALLY BLOCKING SYSTEM OF POLLUTED SITE ~71:Bizhao Geotechnical Technology (Nanjing) Co., Ltd., Building 1, No. 7, Yingcui Road, Jiangning Development Zone, Nanjing, 211106, People's Republic of China;Sichuan University of Science and Engineering, No. 180 Xueyuan Street, Huixing Road, Zigong, Sichuan, 643002, People's Republic of China ~72: BI, Yuzhang;CHEN, Yandan;DING, Zehao;FENG, Zhen;FU, Shenjing;FU, Xianlei;GAO, Xi'an;GUO, Yi;LI, Jiaxin;LIANG, Junyong;LIU, Yu;SONG, Heng;SUN, Xinpo;WU, Haoliang;YANG, Ning~ 33:CN ~31:202011213785.2 ~32:04/11/2020

2021/07188 ~ Complete ~54:METHOD FOR REMEDYING GROUNDWATER CONTAINING HIGH-CONCENTRATION NITRATE NITROGEN BASED ON FOREIGN MICROFLORA ~71:SHANDONG UNIVERSITY OF SCIENCE AND TECHNOLOGY, No.579 Qianwangang Road, Huangdao District, Qingdao, Shandong Province, 266590, People's Republic of China ~72: CHEN, Qiao;CHEN, Tao;DENG, Qinghai;GAO, Zongjun;HAN, Cong;LIU, Manxi;LIU, Ruinan;LIU, Wenyue;TONG, Hui;WANG, Jing;XIA, Lu;ZHANG, Yuqi;ZHAO, Yanli~

2021/07206 ~ Complete ~54:DEVICE FOR INPUTTING AND CONTROLLING DRIVING STATE INFORMATION OF BILLIARD BALL ~71:GO CUE INC., 605, 171, Soseong-ro, Michuhol-gu, Incheon, Republic of Korea ~72: NA, Ji Hoon;PARK, Chul Hoon~ 33:KR ~31:10-2019-0026924 ~32:08/03/2019

2021/07214 ~ Complete ~54:ANTIBODIES RECOGNIZING TAU ~71:PROTHENA BIOSCIENCES LIMITED, 77 SIR JOHN ROGERSON'S QUAY, BLOCK C, GRAND CANAL DOCKLANDS, DUBLIN 2, D02 VK60, IRELAND, Ireland ~72: ALEXANDER, Svetlana;BARBOUR, Robin;DOLAN, Philip, James, III;LIU, Yue;NIJJAR, Tarlochan, S.;RENZ, Mark, E.~ 33:US ~31:62/813,126 ~32:03/03/2019;33:US ~31:62/813,137 ~32:03/03/2019;33:US ~31:62/838,159 ~32:24/04/2019

2021/07218 ~ Complete ~54:CONDENSED AZINES FOR EP300 OR CBP MODULATION AND INDICATIONS THEREFOR ~71:Plexxikon Inc., 329 Oyster Point Blvd, SOUTH SAN FRANCISCO 94080, CA, USA, United States of America ~72: BUELL, John;GUO, Zuojun;INAGAKI, Hiroaki;JIN, Yongil;PHAM, Phuongly;SHI, Songyuan;SPEVAK, Wayne;WALLESHAUSER, Jack;WU, Guoxian;WU, Jeffrey;ZHANG, Chao;ZHANG, Jiazhong;ZHANG, Ying~ 33:US ~31:62/831,622 ~32:09/04/2019

2021/07201 ~ Complete ~54:PEDICLE SCREW AND ROD FIXING SYSTEM HAVING DUAL FLEXIBILITY OF SCREW AND ROD ~71:DONG, Xieping, Room 1701, Jiangyi Residential Quarter, No. 169, 320 Branch Of Sanjing Road, Donghu District, Nanchang, Jiangxi, 330006, People's Republic of China ~72: DONG, Xieping;HE, Weiyi;LI, Qingli;ZHANG, Yuanwei~ 33:CN ~31:201910169817.4 ~32:06/03/2019

2021/07164 ~ Complete ~54:VEGETABLE SEASONING POWDER RICH IN ISOTHIOCYANATES AND ITS PRODUCTION METHOD ~71:Qingdao Agriculture University, No.700 Changcheng Road, Chengyang District, Qingdao, Shandong, People's Republic of China ~72: Guo Liping;Tang Juan;Xiao Junxia;Zhu Yinglian~

2021/07221 ~ Complete ~54:BINDING MOLECULES SPECIFIC FOR HBV ENVELOPE PROTEIN ~71:Immunocore Limited, 92 Park Drive, Milton Park, ABINGDON OX14 4RY, OXFORDSHIRE, UNITED KINGDOM, United Kingdom ~72: CONNOLLY, Mary Marguerita;DEMBEK, Marcin;DONOSO, Jose;KNOX,

Andrew;SUCKLING, Richard;TORREÑO, Sara Crespillo;WIEDERHOLD, Katrin~ 33:GB ~31:1904328.0
~32:28/03/2019

2021/07224 ~ Complete ~54:PUMP AND ASSOCIATED SYSTEM AND METHODS ~71:MHWirth GmbH, 71-73,
Kölner Strasse, ERKELENZ 41812, GERMANY, Germany ~72: JANSEN, Roman~ 33:GB ~31:1904054.2
~32:25/03/2019

2021/07234 ~ Complete ~54:NICORANDIL DERIVATIVES ~71:UNICYCIVE THERAPEUTICS INC., 5150 EI
Camino Real, Suite A-32, Los Altos, California, 94022, United States of America ~72: SHALABH
GUPTA;SUNDEEP DUGAR~ 33:US ~31:62/819,372 ~32:15/03/2019

2021/07227 ~ Complete ~54:DATA STORAGE APPARATUS AND METHOD, AND READABLE STORAGE
MEDIUM ~71:Wuxi Hisky Medical Technologies Co., Ltd., B401, 530 Plaza, University Science Park, Taihu
International Science & Technology Park, Xinwu District, WUXI 214000, JIANGSU, CHINA (P.R.C.),
People's Republic of China ~72: DUAN, Houli;HE, Qiong;SHAO, Jinhua;SUN, Jin;SUN, Shibo~ 33:CN
~31:201910236161.3 ~32:27/03/2019

2021/07179 ~ Complete ~54:WHOLE-PROCESS MECHANIZED HIGH-YIELD AND SYNERGISTIC PLANTING
METHOD OF WINTER WHEAT IN HUANG-HUAI-HAI FLUVO-AQUIC SOIL AREA ~71:Shandong Academy of
Agricultural Sciences, No. 202 North Industry Road, Licheng District, Jinan City, Shandong Province, People's
Republic of China ~72: Li Yan;Liu Zhaohui;Sun Ming;Zhang Yingpeng;Zhong Ziwen~

2021/07184 ~ Complete ~54:GAS DETECTOR FOR ENVIRONMENTAL DETECTION ~71:ANHUI UNIVERSITY
OF SCIENCE AND TECHNOLOGY, No. 168 Taifeng Road, Huainan, Anhui, 232001, People's Republic of China
~72: BIAN, Tingyu;LI, Dong;LI, Jingxian;WANG, Yi~

2021/07196 ~ Complete ~54:MICROBIAL SOIL CONDITIONER AND PREPARATION METHOD THEREOF
~71:Qingdao Agricultural University, 700 Great Wall Road, Chengyang District, Qingdao, Shandong Province,
People's Republic of China ~72: Jiang, Xue;Li, Jun;Liu, Jintao;Liu, Shutang;Wang, Anzhen;Wang, Min;Wang,
Shuangji;Wang, Zhiqiang;Wei, Wenliang;Yu, Chunkai~

2021/07213 ~ Complete ~54:DYNAMIC RESPONSE TEST SYSTEM FOR BENTHAL SANDY SEDIMENT
~71:Qingdao University of Technology, 777 Jialingjiang Road, Huangdao District, Qingdao City, Shandong
Province,, People's Republic of China ~72: Hong Yong;Jiang Huanzhi;Ling Xianchang;Su Lei;Xie Libo;Yang
Zhongnian;Zhang Anqi;Zhou Linlu~ 33:CN ~31:202010654925.3 ~32:09/07/2020

2021/07174 ~ Complete ~54:RAPID PROPAGATION METHOD OF AKEBIA DECNE PLANTS BY CUTTAGE
~71:Research Institute of Forestry, Chinese Academy of Forestry, No.1 Dongxiaofu, Qinglongqiao Street, Haidian
District, Beijing, People's Republic of China ~72: Guo Wenying;Huang Ping;Li Bin;Lin Furong;Zheng Yongqi~

2021/07222 ~ Complete ~54:ELECTROLYSIS SYSTEM WITH CONTROLLED THERMAL PROFILE
~71:DynElectro ApS, Gadstrup Mosevej 21, GADSTRUP 4621, DENMARK, Denmark ~72: GRAVES, Christopher
Ronald;JENSEN, Søren Højgaard;MOGENSEN, Mogens Bjerg~ 33:EP ~31:19167612.1
~32:05/04/2019

2021/07236 ~ Complete ~54:COMPOSITIONS AND METHODS FOR TREATING CANCER ~71:THE REGENTS
OF THE UNIVERSITY OF CALIFORNIA, 1111 Franklin Street, Twelfth Floor, Oakland, California, 94607-5200,
United States of America ~72: DAVID A NATHANSON;GYUDONG KIM;JONATHAN TSANG;LORENZ
URNER;MICHAEL E JUNG;PETER M CLARK;TIMOTHY F CLOUGHESY~ 33:US ~31:62/819,322
~32:15/03/2019;33:US ~31:62/904,241 ~32:23/09/2019

2021/07238 ~ Provisional ~54:SOIL EROSION ~71:RATAU PROJECTS AND SERVICES (PTY) LTD, 589 Zone 1,, South Africa ~72: Paulus Magabolle Mamogege Ratau~

2021/07240 ~ Provisional ~54:NAKED EYE ~71:BONOLO PATRICK BANTOBETSE, P.O. Box 886,, South Africa ~72: BONOLO PATRICK BANTOBETSE~

2021/07157 ~ Complete ~54:MAGNETIC CARBON-SUPPORTED TIO₂ PHOTOCATALYST AND PREPARATION METHOD THEREOF ~71:Qinghai Normal University, No. 38, Wusi West Road, Chengxi District, Xining City, Qinghai Province, 810008, People's Republic of China ~72: GAN, Yuxin;HU, Ying;JIA, Huiping;WANG, Fachun;WANG, Huichun;WANG, Zhengli;WANG, Zhige;WEI, Jingjing;XIE, Huichun;ZHANG, Haoran~ 33:CN ~31:202011016456.9 ~32:24/09/2020

2021/07212 ~ Complete ~54:BERBERINE/MINERALIZED COLLAGEN-BASED COMPOSITE MEMBRANE AND PREPARATION METHOD AND APPLICATION THEREOF ~71:WEIFANG MEDICAL UNIVERSITY, No. 7166, Baotong Street, Weicheng District, Weifang, Shandong , 261053, People's Republic of China ~72: DING, Dejun;GUAN, Xiuwen;HU, Linlin;ZHANG, Jian;ZHANG, Jingjing;ZHANG, Weifen;ZHANG, Yuhan~ 33:CN ~31:202011317356.X ~32:23/11/2020

2021/07148 ~ Provisional ~54:ADDITIVE MANUFACTURING WITH SMART HEAD TECHNOLOGY ~71:Lloyd Horrmann, 21 Richard Road, Broadwood, South Africa ~72: Lloyd Horrmann;Thabelo Mohlala~

2021/07154 ~ Complete ~54:NOVEL FERTILIZER DISCHARGING MECHANISM ~71:HEILONGJIANG ACADEMY OF AGRICULTURAL MACHINERY SCIENCES, No. 156, Haping Road, Nangang District, Harbin City, Heilongjiang Province, 150081, People's Republic of China;HEILONGJIANG WOER AGRICULTURAL EQUIPMENT TECHNOLOGY CO.,LTD, No. 156, Haping Road, Nangang District, Harbin City, Heilongjiang Province, 150081, People's Republic of China ~72: CHEN, Aihui;CHEN, Weixu;GUO, Yingzhou;JIN, Kunpeng;LI, Bo;LIU, Xifeng;MOU, Xuele;QIAN, Xiaohui;SONG, Qiumei;TIAN, Jian;WU, Hao;XU, Dong;ZHANG, Haibin~

2021/07198 ~ Complete ~54:A CONTACTLESS ULTRAVIOLET-C BASED SANITIZING DEVICE ~71:ABO-DIEF, Hala Mohamed, Assists professor petroleum engineer, Chemistry Department, Faculty of Science, Taif University, P.O. Box 11099, Saudi Arabia;ALANAZI, Abdullah Khalaf, Assistant Professor, Applied Nano material science, Chemistry Department, Faculty of Science, Taif University, P.O. Box 11099, Saudi Arabia;MOHAMED, Ashraf Talaat, Professor, Department of mechanical engineer, Faculty of engineer, Minia University, Egypt;PANDA, Ramesh Chandra, Chief Scientist, Wegrow Private Limited, Odisha, India;PRAMANIK, Tanay, Professor, Department of Chemistry, University of Engineering and Management, Kolkata, University Area, Action Area III, B/5, Newtown, West Bengal, India ~72: ABO-DIEF, Hala Mohamed;ALANAZI, Abdullah Khalaf;MOHAMED, Ashraf Talaat;PANDA, Ramesh Chandra;PRAMANIK, Tanay~

2021/07160 ~ Complete ~54:NOVEL COMPOUND FOR IMPROVING PLANT RESISTANCE TO SOIL ACID STRESS AND PREPARATION METHOD THEREOF ~71:Qingdao Agricultural University, No. 700 Changcheng Road, Chengyang District, Qingdao City, Shandong Province, People's Republic of China ~72: Ma Changqing;Sun Zhijuan;Tian Yike;Wang Caihong;Zheng Xiaodong~

2021/07165 ~ Complete ~54:HIGH-STRENGTH THERMAL INSULATION CONCRETE FOR ALPINE DAMS AND PREPARATION METHOD THEREOF ~71:Beihua University, Beihua University, No. 3999 Binjiang East Road, Jilin City, Jilin Province, People's Republic of China ~72: Chang Guangli;Yang Xujiao;Zhao Huan~

2021/07202 ~ Complete ~54:VEHICLE MICRO-ACTUATOR APPLIED TO AUTOMOTIVE FUEL TANK COVER OR CHARGING BOX COVER ~71:Ningbo Huakai Electronic Technology Co. LTD, Binhai Er Lu Xing Ci Liu Lu, Hangzhou Bay New District, Ningbo, Zhejiang, 315336, People's Republic of China ~72: SUN, Yunfei;ZHOU, Junchen~ 33:CN ~31:201911379132.9 ~32:27/12/2019

2021/07239 ~ Provisional ~54:ROAD M.A.T.E ~71:BONOLO PATRICK BANTOBETSE, P.O. Box 886, Taung Station, South Africa ~72: BONOLO PATRICK BANTOBETSE~

- APPLIED ON 2021/09/28 -

2021/07268 ~ Complete ~54:ADVERTISING DISPLAY ARRANGEMENT ~71:Goal Post Marketing (Pty) Ltd, 25 Olivier Street, Noordkruin, South Africa ~72: HERBST, Andries Johannes;MOOLMAN, Ivan;VILJOEN, Carlõ~ 33:ZA ~31:2020/03969 ~32:30/06/2020

2021/07274 ~ Complete ~54:PADDY FIELD WEEDING MACHINE ~71:Jiangsu Chi Chi Precision Parts Co., Ltd, Wujiang Songling Town Qingshu Development Zone, Zhanghua Road 58,, People's Republic of China;Nanjing Institute of Agricultural Mechanization, Ministry of Agriculture and Rural Affairs, Liu Camp 100 outside Zhongshan, People's Republic of China ~72: JIN, Qianli;WANG, Shanshan;YU, Shanshan~

2021/07303 ~ Provisional ~54:CONTAINER ~71:LESLIE BECKER, 60 ROOIKAT ROAD, VALLEY SETTLEMENTS, South Africa ~72: LESLIE BECKER~

2021/07304 ~ Provisional ~54:AN ELECTRICAL LICENSE DEVICE AND SYSTEM ~71:THE ROSS FAMILY TRUST Nº I/T20048/2014, 8 PEN KOTZE STREET, PLATTEKLOOF 1, South Africa ~72: ROSS CLINT DAMIAN~

2021/07246 ~ Provisional ~54:FUSEHEAD AND DETONATOR CONNECTION ~71:PLICHTA, Martin, George, NO 9 MONT PELLIER, NETTLETON ROAD, BEDFORDVIEW, South Africa ~72: DAVIS, Mark, Rodney;PLICHTA, Martin, George~

2021/07248 ~ Provisional ~54:RADIAL LOCK MECHANISM ~71:MOHLALEFI (PTY) LTD., 18 Tongani Street, Bryanston Ext 45, Sandton, Gauteng, 2191, South Africa ~72: GERALD MUNIAH;MARTIN NARE MASITISE~

2021/07290 ~ Complete ~54:IMMUNOTHERAPEUTIC COMPOSITIONS AND USE THEREOF ~71:Torque Therapeutics, Inc., One Kendall Square, Building 1400 W, 5th Floor, CAMBRIDGE 02139, MA, USA, United States of America ~72: JONES, Douglas~ 33:US ~31:62/826,923 ~32:29/03/2019;33:US ~31:62/881,300 ~32:31/07/2019;33:US ~31:62/884,540 ~32:08/08/2019;33:US ~31:62/930,363 ~32:04/11/2019

2021/07265 ~ Complete ~54:CARBON FIBER BACTERIOSTATIC ULTRA-FILTRATION MASK AND PREPARATION METHOD THEREOF ~71:Shandong Kuanyuan New Material Technology Co., Ltd, Room 305, Level 3, Block A, Zhongguancun Science and Technology City, Qilu High-tech Development Zone, Qihe County, Dezhou City, Shandong Province, People's Republic of China ~72: Liu Yulan;Qiao Kun;Wang Yongwei;Yu Junwei;Zhang Min;Zhu Bo~

2021/07281 ~ Complete ~54:FGFR TYROSINE KINASE INHIBITORS FOR THE TREATMENT OF UROTHELIAL CARCINOMA ~71:Janssen Pharmaceutica NV, Turnhoutseweg 30, BEERSE 2340, BELGIUM, Belgium ~72: DE PORRE, Peter Marie Z.~ 33:EP ~31:19166429.1 ~32:29/03/2019;33:US ~31:62/833395 ~32:12/04/2019

2021/07292 ~ Complete ~54:PATH PLANNING METHOD AND SYSTEM BASED ON DISTRIBUTED PARALLEL COMPUTING ~71:Jiangsu Maritime Institute, 309 Gezhi Road, Jiangning District, Nanjing City, Jiangsu Province, People's Republic of China ~72: Chen Yong;Feng Maoyan;Lv Taizhi;Sun Jiongning;Zhang Jun;Zhao Tao~ 33:CN ~31:201910174544.2 ~32:08/03/2019

2021/07263 ~ Complete ~54:NANO TiO₂/ POLYANILINE/GRAPHENE COMPOSITE MATERIAL WITH HIGH INSTANTANEOUS PHOTOCURRENT AND PREPARATION METHOD THEREOF ~71:Anhui University of Science and Technology, No.168 Taifeng street, Huainan City, Anhui Province, People's Republic of

China;Guangxi University of Science and Technology, No. 257 Liushi Road, Yufeng District, Liuzhou City, Guangxi, People's Republic of China ~72: Cheng Hao;Tao Yulun~

2021/07272 ~ Complete ~54:PRESSURE RELIEF THRESHOLD DETECTION DEVICE FOR PRESSURE SELF-RELIEF TYPE ANCHOR ROD ~71:Anhui University of Science and Technology, 168 Taifeng street, People's Republic of China ~72: LOU, Peijie~

2021/07282 ~ Complete ~54:FGFR TYROSINE KINASE INHIBITORS FOR THE TREATMENT OF UROTHELIAL CARCINOMA ~71:Janssen Pharmaceutica NV, Turnhoutseweg 30, BEERSE 2340, BELGIUM, Belgium ~72: AVADHANI, Anjali Narayan;O'HAGAN, Anne Elizabeth;SANTIAGO-WALKER, Ademi Elena~ 33:EP ~31:19166428.3 ~32:29/03/2019;33:EP ~31:19188971.6 ~32:30/07/2019

2021/07293 ~ Complete ~54:TYK2 PSEUDOKINASE LIGANDS ~71:VENTYX BIOSCIENCES, INC., 662 Encinitas Boulevard, Suite 250, United States of America ~72: HARRIS, Jason;MOHAN, Raju;NUSS, John;YUAN, Shendong~ 33:US ~31:62/824,144 ~32:26/03/2019

2021/07296 ~ Complete ~54:A SYSTEM AND METHOD FOR EFFECTING A TRANSACTION USING A MOBILE COMMUNICATIONS DEVICE ASSOCIATED WITH A RECEIVER OF TRANSACTION INFORMATION ~71:AUTHEISS TECHNOLOGIES (PTY) LTD., Reunert - Nashua Building, Woodmead Office Park, 54 Maxwell Drive, Woodmead, Gauteng, 2191, South Africa ~72: JACOBUS JOHANNES BOTES~

2021/07243 ~ Provisional ~54:THE INNOVATION ECOSYSTEM WITH A INTERCONNECTED PRODUCTS AND SERVICES ~71:Nolusizo F. Ngubane, 13 Robinson street, South Africa;Royalblueprint (Pty). Ltd, 13 Robinson street, South Africa ~72: Nolusizo F. Ngubane;Royalblueprint (Pty). Ltd~

2021/07259 ~ Complete ~54:OLIGO DNA GROUP OF SGRNA FOR SITE-DIRECTED KNOCKOUT OF RICE OSAURORA1 GENE ~71:Jiangxi Agricultural University, No.1101 Zhimin Road, Nanchang City, Jiangxi Province, People's Republic of China ~72: Bian Jianmin;Gan Cong;He Haohua;Hu Lifang;Jiang Wenxiang;Jiang Zhishu;Ouyang Linjuan;Peng Limei;Song Yongping;Sun Xiaotang;Xu Jie~

2021/07288 ~ Complete ~54:PROCESS FOR THE PREPARATION OF MICROBIOCIDAL OXADIAZOLE DERIVATIVES ~71:Syngenta Crop Protection AG, Rosentalstrasse 67, BASEL 4058, SWITZERLAND, Switzerland ~72: GHORAI, Sujit Kumar;GODINEAU, Edouard;HOFFMAN, Thomas James;JAWALEKAR, Anup;MONDIERE, Régis Jean Georges;STUTZ, Wolfgang~ 33:IN ~31:201911015611 ~32:18/04/2019

2021/07291 ~ Complete ~54:METHOD AND ARRANGEMENT FOR CONTROLLING ELECTRIC CURRENT IN TETHER CABLE OF A MINING VEHICLE ~71:Sandvik Mining and Construction Oy, Pihtisulunkatu 9, TAMPERE 33330, FINLAND, Finland ~72: JUNTUNEN, Raimo;KITULA, Mikko;KOUVO, Mikko;TIIHONEN, Tommi;VATANEN, Harri;VERHO, Samuli~ 33:EP ~31:19175916.6 ~32:22/05/2019

2021/07301 ~ Complete ~54:VEHICLE COMPRISING A STABILIZER, AND STABILIZER FOR SUCH A VEHICLE ~71:NIJHUIS ENGINEERING DRONTEN B.V., Pioniersweg 80 8251 KR Dronten, Netherlands;P. BERENDE HOLDING B.V., Vaartweg 13A 4905 BK Oosterhout, Netherlands ~72: DANIEL P.J STEE;PETRUS CORNELIS ADRIANUS MARIA BERENDE~ 33:NL ~31:2022762 ~32:19/03/2019

2021/07278 ~ Complete ~54:ABIRATERONE PRODRUGS ~71:PROPELLA THERAPEUTICS, INC., 480 HILLSBORO STREET, SUITE 130A, PITTSBORO, NC 27312, USA, United States of America ~72: MOORE, William, R.;SHARP, Matthew, J.~ 33:US ~31:62/814,568 ~32:06/03/2019;33:US ~31:62/849,259 ~32:17/05/2019

2021/07258 ~ Complete ~54:UNMANNED AERIAL VEHICLE PATROL INSPECTION SYSTEM ~71:Jilin Institute of Chemical Technology, 45 Chengde Street, Longtan District, Jilin City, Jilin Province, People's Republic of China ~72: Zhou Lirong~

2021/07285 ~ Complete ~54:COMPOUNDS TARGETING PRMT5 ~71:Aligos Therapeutics, Inc., 1 Corporate Drive, 2nd Floor, SOUTH SAN FRANCISCO 94080, CA, USA, United States of America ~72: BEIGELMAN, Leonid;DEBING, Yannick;DEVAL, Jerome;MCGOWAN, David;RABOISSON, Pierre Jean-Marie Bernard;VANDYCK, Koen~ 33:US ~31:62/828,282 ~32:02/04/2019;33:US ~31:62/877,411 ~32:23/07/2019;33:US ~31:62/946,649 ~32:11/12/2019

2021/07242 ~ Provisional ~54:A COLLECTOR ~71:VAN DER MERWE, Paul, Stephanus, FARM ROODEWAL, BOTHAVILLE, 9660, SOUTH AFRICA, South Africa ~72: VAN DER MERWE, Paul, Stephanus~

2021/07257 ~ Complete ~54:INTELLIGENT ROBOT ~71:Wenlan Qingjiang (Beijing) Technology Co., Ltd., 20305, No.9 of Fuqian Road, Shandongzhuang Town, Pinggu District, Beijing, People's Republic of China ~72: Fang Xiang~

2021/07297 ~ Complete ~54:SURFACTANT SYSTEMS ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: ANDREW PHILIP PARKER;ANTHONY MCKEE;CRAIG WARREN JONES;HÉLDER DANIEL PEIXOTO DA SILVA~ 33:EP ~31:19170472.5 ~32:23/04/2019

2021/07267 ~ Complete ~54:POLYANILINE PHOTSENSITIVE CHIP AND PREPARATION METHOD THEREOF ~71:Anhui University of Science and Technology, No.168 Taifeng Street, Huainan City, Anhui Province, People's Republic of China ~72: Huang Ya'nan;Tao Yulun~

2021/07279 ~ Complete ~54:CATALYTIC-CRACKING CATALYST AND METHOD FOR PREPARATION THEREOF ~71:CHINA PETROLEUM & CHEMICAL CORPORATION, 22 Chaoyangmen North Street, Chaoyang District, People's Republic of China;RESEARCH INSTITUTE OF PETROLEUM PROCESSING, SINOPEC, 18 Xueyuan Road Haidian District, People's Republic of China ~72: LI, Jiaxing;TIAN, Huiping;XU, Mingde;YAN, Jiasong;YANG, Min;YU, Shanqing;ZHANG, Jiexiao~ 33:CN ~31:201910241402.3 ~32:28/03/2019

2021/07289 ~ Complete ~54:AUTOMATED SIGNAL COMPLIANCE MONITORING AND ALERTING SYSTEM ~71:Wi-Tronix, LLC, 631 E. Boughton Road, # 240, BOLINGBROOK 60440, IL, USA, United States of America ~72: GANESAN, Pradeep;JORDAN, Lawrence B.;MARTINEZ, Roger;MURILLO AMAYA, Sergio E.;RATHINAVEL, Jagadeeswaran;SCHABELL, Brandon;WEAVER, Bryan~ 33:US ~31:62/825,943 ~32:29/03/2019;33:US ~31:62/829,730 ~32:05/04/2019;33:US ~31:16/833,590 ~32:28/03/2020

2021/07294 ~ Complete ~54:USING INTERPOLATION FILTERS FOR HISTORY BASED MOTION VECTOR PREDICTION ~71:BEIJING BYTEDANCE NETWORK TECHNOLOGY CO., LTD., Room B-0035, 2/F, No. 3 Building No. 30, Shixing Road, Shijingshan District, Beijing, 100041, People's Republic of China;BYTEDANCE INC., 12655 West Jefferson Boulevard, Sixth Floor, Suite No. 137, Los Angeles, California, 90066, United States of America ~72: HONGBIN LIU;JIZHENG XU;KAI ZHANG;LI ZHANG;YUE WANG~ 33:CN ~31:PCT/CN2019/080754 ~32:01/04/2019

2021/07273 ~ Complete ~54:SUPPORTING STRUCTURE OF SELF-DRILLING TYPE ANCHOR ROD ~71:Anhui University of Science and Technology, 168 Taifeng street, People's Republic of China ~72: LOU, Peijie~

2021/07276 ~ Complete ~54:COMPOSITIONS AND METHODS FOR INHIBITING GENE EXPRESSION IN THE CENTRAL NERVOUS SYSTEM ~71:DICERNA PHARMACEUTICALS, INC, 75 Hayden Avenue, Lexington, United States of America ~72: BROWN, Bob, Dale;OSBORN, Maire;WANG, Weimin~ 33:US ~31:62/829,595 ~32:04/04/2019

2021/07277 ~ Complete ~54:HYDROGEN-PRODUCING FUEL CELL SYSTEMS AND METHODS OF OPERATING HYDROGEN-PRODUCING FUEL CELL SYSTEMS FOR BACKUP POWER ~71:H2 POWERTECH, LLC, 746 Se Glenwood Drive, Bend, OR, United States of America ~72: DESROSIERS, Kevin, C.;HICKS, Michael, Tyler;KOYAMA, Harol~ 33:US ~31:63/028,315 ~32:21/05/2020;33:US ~31:17/323,927 ~32:18/05/2021

2021/07284 ~ Complete ~54:LIPOSOMAL FORMULATIONS, AND METHODS OF USING AND PREPARING THEREOF ~71:Glycomine, Inc., 733 Industrial Road, SAN CARLOS 94070, CA, USA, United States of America ~72: GREENBERG, Samuel Eric;RAFALKO, Agnes;SHIRAKURA, Teppei~ 33:US ~31:62/826,874 ~32:29/03/2019

2021/07287 ~ Complete ~54:ANTI-IGE ANTIBODIES ~71:argenx IIP BV, Industriepark-Zwijnaarde 7, GENT 9052, BELGIUM, Belgium ~72: BIGIRIMANA, Rene;BLANCHETOT, Christophe;CROMHEECKE, Marijn;MCGUIRE, Conor;SAUNDERS, Michael~ 33:GB ~31:1905150.7 ~32:11/04/2019

2021/07244 ~ Provisional ~54:NANO-SIZED CALCIUM CARBONATE ~71:ROC Water Technologies (Pty) Ltd, 28 Keramiek Street, Clubview, OLIFANTSFONTEIN, Pretoria 1666, Gauteng, SOUTH AFRICA, South Africa;UNIVERSITY OF LIMPOPO, Turfloop Campus, Tzaneen Road, Mankweng, Sovenga 0727, SOUTH AFRICA, South Africa ~72: MAREE, Johannes Philippus;VAN VUUREN, David Steyn~

2021/07269 ~ Complete ~54:METHOD FOR AND APPARATUS FOR DECODING AN AMBISONICS AUDIO SOUNDFIELD REPRESENTATION FOR AUDIO PLAYBACK USING 2D SETUPS ~71:DOLBY INTERNATIONAL AB, Apollo Building, 3E, Herikerbergweg 1-35, NL-1101, CN Amsterdam Zuidoost, Netherlands ~72: FLORIAN KEILER;JOHANNES BOEHM~ 33:EP ~31:13290255.2 ~32:23/10/2013

2021/07280 ~ Complete ~54:CATALYTIC CONVERSION PROCESS AND SYSTEM FOR PRODUCING GASOLINE AND PROPYLENE ~71:CHINA PETROLEUM & CHEMICAL CORPORATION, 22 Chaoyangmen North Street, Chaoyang District, People's Republic of China;RESEARCH INSTITUTE OF PETROLEUM PROCESSING, SINOPEC, 18 Xueyuan Road Haidian District, People's Republic of China ~72: BAI, Xuhui;LUO, Yibin;SHU, Xingtian;WANG, Xieqing;WANG, Xin;XU, Youhao;ZUO, Yanfen~ 33:CN ~31:201910224120.2 ~32:22/03/2019

2021/07302 ~ Complete ~54:SYSTEMS AND METHODS FOR DELIVERING A PERSONALISED DOSE OF EXERCISE ~71:FITBEAT AUSTRALIA PTY LTD, 3 Dudley Road, Rose Bay, Australia ~72: KUNITZ, Michael Vernon~ 33:AU ~31:2019900855 ~32:15/03/2019

2021/07256 ~ Complete ~54:VIDEO CODING METHOD AND APPARATUS ~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: AN, Jicheng;CHEN, Xu;ZHENG, Jianhua~

2021/07261 ~ Complete ~54:PRECISE SOWING DEVICE FOR KENAF ~71:Lu'an Academy of Agricultural Sciences, 25th Floor, Agricultural Science Building, Meishan South Road, Yu'an District, Lu'an City, 237008, People's Republic of China;Zhejiang Institute of Garden Plants and Flowers (Zhejiang Xiaoshan Institute of Cotton and Bast Fiber Crops Research), No. 508, Cunwang Village, Wangcun, Youhu Line, Linpu Town, Xiaoshan District, Hangzhou City, Zhejiang Province, 311251, People's Republic of China ~72: AN, Xia;CHEN, Changli;HU, Wanqun;JIN, Guanrong;LI, Wenlue;LIU, Tingting;LUO, Xiahong;ZHU, Guanlin~

2021/07271 ~ Complete ~54:A PEST AND DISEASE IDENTIFICATION SYSTEM BASED ON BIG DATA AND DEEP LEARNING ~71:QINGDAO AGRICULTURAL UNIVERSITY, No. 700 Changcheng Road, Chengyang District, Qingdao, People's Republic of China ~72: SONG, Caixia~ 33:CN ~31:202110911829.7 ~32:10/08/2021

2021/07266 ~ Complete ~54:FLEXIBLE ULTRASONIC GUM DIPPING DEVICE ~71:Shandong Kuanyuan New Material Technology Co., Ltd, Room 305, Level 3, Block A, Zhongguancun Science and Technology City, Qilu High-tech Development Zone, Qihe County, Dezhou City, Shandong Province, People's Republic of China ~72: Di Chengrui;Luo Zengshu;Qiao Kun;Wang Yongwei;Zhu Anping;Zhu Bo~

2021/07299 ~ Complete ~54:PRESSURE REDUCING VALVE WITH SHUT-OFF MECHANISM ~71:NETAFIM LTD, 10 Derech Hashalom, Tel-Aviv, 67892, Israel ~72: BAR GAZIT;GAD PELEG~ 33:US ~31:62/830,575 ~32:08/04/2019

2021/07264 ~ Complete ~54:METHOD FOR PREPARING CALCIUM CITRATE FROM EGGSHELL ~71:Hebei University of Engineering, 19 Taiji Road, Economic and Technological Development District, Handan City, Hebei Province, People's Republic of China ~72: Lian Haiping;Lian Zhaohui;Liu Meiyu;Zhang Xi~

2021/07275 ~ Complete ~54:TRADITIONAL CHINESE MEDICINE FORMULATION FOR PREVENTING DISEASES IN ECOLOGICAL CULTURE OF SOFTSHELL TURTLES, PREPARATION METHOD AND METHOD FOR USE THEREOF ~71:Hangzhou Haolin Agricultural Development Co., Ltd., Baijiang Village, Baijiang Town, Tonglu County, Hangzhou City, Zhejiang Province , 311522, People's Republic of China;Zhejiang Agricultural Technology Extension Center, 29 Fengqi East Road, Jiangnan District, Hangzhou City, Zhejiang Province , 310020, People's Republic of China;Zhejiang Fisheries Technology Extension Station, 181 Jingchang Road, Yuhang District, Hangzhou City, Zhejiang Province , 310023, People's Republic of China;Zhejiang Tonglu Agricultural Technology Extension Center, No.258 Yingchun South Road, Chengnan Street, Tonglu County, Hangzhou City, Zhejiang Province , 311500, People's Republic of China ~72: JIN, Hao;JIN, Jianrong;QIN, Yebo;WANG, Jie;XU, Lijun;ZHOU, Fan;ZHOU, Yanping~

2021/07247 ~ Provisional ~54:ADJUSTABLE/PERSONALISED SEAT ARRANGEMENT AND SYSTEM ~71:BAREND JACOBUS STANDER, 27 Vincent Gardens Road, East London, 5241, South Africa ~72: BAREND JACOBUS STANDER~

2021/07245 ~ Provisional ~54:AUDIO DE-AMPLIFICATION METHOD AND APPARATUS ~71:ARMUGAM, Kuben, 535 Eekhout Street, 29 La Cotre, Elarduspark, South Africa ~72: ARMUGAM, Kuben~

2021/07260 ~ Complete ~54:AN AUXILIARY DEVICE FOR COLLEGE ENGLISH TRANSLATION PRACTICE ~71:Suzhou University, No. 1769, Xuefu Ave., Suzhou, Anhui, People's Republic of China ~72: Juan Han;Man Qin;Yanling Zhang~

2021/07270 ~ Complete ~54:A SUBSTANCE MANAGEMENT SYSTEM AND A METHOD OF OPERATING A SUBSTANCE MANAGEMENT SYSTEM ~71:Evelela Healthcare (Pty) Ltd, Flat 207, The Lighthouse, Millenium Boulevard, Umhlanga Ridge, Durban, SOUTH AFRICA, South Africa ~72: NAIDOO, Inderan~ 33:ZA ~31:2020/05854 ~32:22/09/2020

2021/07241 ~ Provisional ~54:A HARVESTER ~71:VAN DER MERWE, Paul, Stephanus, FARM ROODEWAL, BOTHAVILLE, 9660, SOUTH AFRICA, South Africa ~72: VAN DER MERWE, Paul, Stephanus~

2021/07262 ~ Complete ~54:MULTI-FACTOR-BASED CANCER RISK ASSESSMENT AND GRADING MODEL FOR HIGH-RISK POPULATION OF GASTRIC CANCER ~71:Capital Medical University, No.10 West Toutiao, You'anmenwai, Fengtai District, Beijing, People's Republic of China ~72: Feng Wei;Guo Xiuhua;Liu Xiangtong;Liu Yong;Tao Lixin;Wang Guiqi;Wu Zhiyuan;Zhang Haiping~

2021/07295 ~ Complete ~54:PARAMETER DERIVATION IN CROSS COMPONENT MODE ~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; ZHIPIN DENG~ 33:CN ~31:PCT/CN2019/083320 ~32:18/04/2019

2021/07286 ~ Complete ~54:GLUCOSE SENSITIVE INSULIN DERIVATIVES ~71:Novo Nordisk A/S, Novo Alle, BAGSVÆRD 2880, DENMARK, Denmark ~72: BALŠÁNEK, Vojtěch; BEHRENS, Carsten; CLÓ, Emiliano; DROBŇÁKOVÁ, Zuzana; DROŽ, Ladislav; HAVRÁNEK, Miroslav; HJØRRINGGAARD, Claudia Ulrich; HOEG-JENSEN, Thomas; KOTEK, Vladislav; KRUSE, Thomas; MÜNZEL, Martin Werner Borchsenius; SAUERBERG, Per; SENSFUSS, Ulrich; SPETZLER, Jane; THØGERSEN, Henning; VÁŇOVÁ, Hana; ŠNAJDR, Ivan; ŠTENGL, Milan~ 33:EP ~31:19166131.3 ~32:29/03/2019; 33:EP ~31:19174671.8 ~32:15/05/2019

2021/07298 ~ Complete ~54:METHODS FOR CONTINUOUS EXTRACTION AND PURIFICATION OF A UNIQUE FLAVAN-3-OL EXTRACT FROM IMMATURE WHOLE GRAPE CLUSTERS AND COMPOSITIONS THEREOF ~71:E. & J. GALLO WINERY, 600 Yosemite Blvd., Modesto, California, 95354, United States of America ~72: JAMES A KENNEDY~ 33:US ~31:62/823,390 ~32:25/03/2019

2021/07300 ~ Complete ~54:TREATMENT OF CUTANEOUS LUPUS ERYTHEMATOSUS ~71:LEO PHARMA A/S, Industriparken 55 2750 Ballerup, Denmark ~72: CAMILLA SANDER; GITTE POMMERGAARD PEDERSEN; HELENE MORTENSEN; JACOB NIELSEN; PIA KLIE REFER~ 33:EP ~31:19174586.8 ~32:15/05/2019

2021/07283 ~ Complete ~54:COATED SUBSTRATE AND PROCESS OF PREPARATION ~71:Pilkington Group Limited, European Technical Centre, Hall Lane, Lathom, NR. ORMSKIRK L40 5UF, LANCASHIRE, UNITED KINGDOM, United Kingdom ~72: BROWN, Jack; MADIN, Claire; RAISBECK, Deborah; VARMA, Karikath Sukumar~ 33:GB ~31:1904453.6 ~32:29/03/2019

- APPLIED ON 2021/09/29 -

2021/07315 ~ Complete ~54:SEWAGE TREATMENT EQUIPMENT ~71:Jingmen Tuoda Technology Co., Ltd., (Building 19, Equipment Manufacturing Industrial Park) South of Xingda Road, West of Fuyao Road, Duodao District, Jingmen High-tech Zone, Jingmen, Hubei Province, 448124, People's Republic of China ~72: LIU, Qingshan; LIU, Yinsong; LIU, Yinzhi~

2021/07339 ~ Complete ~54:ISOTROPIC LIQUID CLEANSERS COMPRISING ACYL ISETHIONATE AND METHYL ACYL TAURATE SURFACTANT MIXTURES ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: DOUGLAS JOHN HIBAN; JAMIE LYNN MILLER; TIRUCHERAI VARAHAN VASUDEVAN~ 33:EP ~31:19175538.8 ~32:21/05/2019

2021/07312 ~ Complete ~54:PREPARING METHOD OF FORSYTHIA SUSPENSIA GREEN TEA ~71:Anze County Heqingyuan Tea Development Co., Ltd., South Yard of Lancun Forest Farm, Lancun, Jishi Town, Anze County, Linfen City, Shanxi Province, People's Republic of China; Shanxi Academy of Forestry and Grassland Sciences, No. 105 Xinjian South Road, Taiyuan City, Shanxi Province, People's Republic of China ~72: Chen Liuming; Gao Jindong; Liu Jin; Liu Xin; Ren Xiaohong; Shi Minhua~

2021/07333 ~ Complete ~54:SYSTEM AND ASSOCIATED METHOD FOR ENSURING DATA PRIVACY ~71:UNIVERSITY OF CAPE TOWN, Lovers Walk, South Africa ~72: BERTRAM, Sabine; GEORG, Pierre Georg~ 33:GB ~31:1903141.8 ~32:08/03/2019

2021/07307 ~ Provisional ~54:MOBILE DEVICE-IMPLEMENTED HIRE AND RENTAL MANAGEMENT SYSTEM ~71:JOOSTE, Franco Johandre, 502 LQ Waterkloof Ext 64, South Africa ~72: JOOSTE, Franco Johandre~

2021/07328 ~ Complete ~54:DISC TUMBLER CYLINDER AND KEY COMBINATION ~71:ABLOY OY, WAHLFORSSINKATU 20, 80100 JOENSUU, FINLAND, Finland ~72: KINNUNEN, Keijo;TIRKKONEN, Jouni~ 33:FI ~31:20195157 ~32:05/03/2019

2021/07310 ~ Complete ~54:MAGNETIC SATURATION CONTROLLABLE SHUNT REACTOR WITH AC AND DC EXCITATION ~71:Shenyang Institute of Engineering, No.339-4, South Changbai Street, Heping District, Shenyang City, Liaoning Province, People's Republic of China ~72: Xing Junqiang~

2021/07313 ~ Complete ~54:INSTALLATION PROCESS AND METHOD FOR BUILDING WATER SUPPLY PIPELINE ~71:Jinan Changxing Construction Group Co., Ltd., No. 16, West Road, No. 1 Machine Tool Factory, Shizhong District, Jinan City, Shandong, 250300, People's Republic of China ~72: LIU, Jiandong~

2021/07323 ~ Complete ~54:MULTI-VEHICLE BRAKING SYSTEM ~71:Westinghouse Air Brake Technologies Corporation, 1001 Air Brake Avenue, WILMERDING 15148, PA, USA, United States of America ~72: HAAS, Carl L.;HENNIGES, Benjamin;UEHLING, Mark;WOLF, Charles L.~ 33:US ~31:63/085,458 ~32:30/09/2020;33:US ~31:17/468,773 ~32:08/09/2021

2021/07335 ~ Complete ~54:QUINOLINE DERIVATIVES AND THEIR USE FOR THE TREATMENT OF CANCER ~71:EPIZYME, INC., 400 Technology Square 4th Floor, Cambridge, Massachusetts, 02139, United States of America ~72: ALEXIS COCOZAKI;DARREN HARVEY;EAMON COMER;JOHN CAMPBELL;KENNETH DUNCAN;MICHAEL MUNCHHOF~ 33:US ~31:62/825,507 ~32:28/03/2019;33:US ~31:62/952,599 ~32:23/12/2019

2021/07406 ~ Provisional ~54:SCORPION TACTICAL WEAR AND LOGO ~71:Emile Van Den Berg, 1160 Stellenberg rd, Equestria, South Africa ~72: Emile van den Berg~

2021/07305 ~ Provisional ~54:PREFABRICATED WALL AND ASSOCIATED METHOD OF WALL CONSTRUCTION ~71:SANJO FABTECH STERLING (PTY) LIMITED, Sanjo House, 5 Commerce Place, Eastgate Ext 12, South Africa ~72: PEEL, Jonathan~

2021/07317 ~ Complete ~54:A SANITARY GARMENT ~71:SIGABE, Mulweli, Vyeboom 620, Vuwani, Limpopo, 0952, South Africa ~72: SIGABE, Mulweli~ 33:ZA ~31:2020/07269 ~32:23/11/2020

2021/07322 ~ Complete ~54:IMPROVED REMOVEABLE FILTER SCREEN LANCE ~71:HUGES-JONES, Glyn, 9 Witney Street, Bryanston, South Africa ~72: HUGES-JONES, Glyn~

2021/07342 ~ Complete ~54:CHIAURANIB FOR TREATMENT OF SMALL CELL LUNG CANCER ~71:SHENZHEN CHIPSCREEN BIOSCIENCES CO., LTD., 2-601~606, BIO-Incubator, Gaoxin C, 1st Ave., People's Republic of China ~72: LU, Xianping;NING, Zhiqiang;PAN, Desi;SHAN, Song~ 33:CN ~31:201910229379.6 ~32:25/03/2019

2021/07344 ~ Provisional ~54:EASY MOVEABLE CHAIR ~71:GERRIT HENDRIK MULLER KOTZE, 8 VAN RIEBEECK STREET, South Africa ~72: GERRIT HENDRIK MULLER KOTZE~

2021/07309 ~ Complete ~54:MULTI-FACTOR-BASED CANCER RISK ASSESSMENT AND GRADING MODEL FOR HIGH-RISK POPULATION OF ESOPHAGEAL CANCER ~71:Capital Medical University, No.10 West Toutiao, You'anmenwai Street, Fengtai District, Beijing City, People's Republic of China ~72: Feng Wei;Guo Xiuhua;Liu Fen;Liu Xiangtong;Liu Yong;Niu Chen;Tao Lixin;Wang Guiqi;Wang Xiaonan;Wu Zhiyuan;Zang Zhaoping;Zhang Haiping~

2021/07314 ~ Complete ~54:SPLICED BUILDING WITH INTELLIGENT HOME SYSTEM ~71:Hebei Normal University, No. 20, South Second Ring East Road, Shijiazhuang, Hebei, 050024, People's Republic of China ~72:

CHEN, Dong;QIU, Zhiyu;SHEN, Chunpu;TIAN, Liang;WANG, Yanjun;WANG, Ye;WU, Lihong;ZHANG, Peixin;ZHAO, Shuliang;ZHOU, Hongxia~

2021/07320 ~ Complete ~54:NGS-BASED MULTIPLEX PANEL FOR SIMULTANEOUSLY DETECTING 22 MICROHAPLOTYPES AND 7 COMPOUND MARKERS ~71:Forensic Medicine School of Guizhou Medical University, No. 9 Beijing Road, Yunyan District, Guiyang City, Guizhou Province, People's Republic of China ~72: Huang Jiang;Jin Xiaoye;Liu Yubo;Ren Zheng;Wang Qiyang;Xia Bing;Zhang Hongling~

2021/07332 ~ Complete ~54:ESTABLISHING A PROTOCOL DATA UNIT SESSION ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83 STOCKHOLM, SWEDEN, Sweden ~72: BEN HENDA, Noamen;WIFVESSON, Monica~ 33:US ~31:62/813,325 ~32:04/03/2019

2021/07331 ~ Complete ~54:THERAPEUTIC USE, FOR LIVER DISEASE, OF TRIPLE AGONIST HAVING ACTIVITY WITH RESPECT TO ALL OF GLUCAGON, GLP-1, AND GIP RECEPTORS, OR CONJUGATE THEREOF ~71:HANMI PHARM. CO., LTD., 214, MUHA-RO, PALTAN-MYEON, HWASEONG-SI, GYEONGGI-DO 18536, REPUBLIC OF KOREA, Republic of Korea ~72: CHOI, In Young;JO, Hyo Sang;KIM, Jung Kuk;KWON, Hyun Joo;LEE, Jong Min;LEE, Jong Suk;PARK, Eun Jin~ 33:KR ~31:10-2019-0077776 ~32:28/06/2019;33:KR ~31:10-2020-0004379 ~32:13/01/2020;33:KR ~31:10-2020-0004386 ~32:13/01/2020;33:KR ~31:10-2020-0069219 ~32:08/06/2020

2021/07337 ~ Complete ~54:FLEXIBLE BAGS AND PRODUCTS THEREIN WITH EXTENDED SHELF LIFE ~71:LIQUI-BOX CORPORATION, Riverfront Plaza, 901 East Byrd Street, Suite 1105, Richmond, Virginia, 23219, United States of America ~72: ADRIAN ELLIS JACKSON~ 33:US ~31:62/847,408 ~32:14/05/2019

2021/07308 ~ Complete ~54:METHOD FOR IMPROVING ACCURACY OF NONDESTRUCTIVE TESTING OF CARBON FIBROUS WIRES ~71:Shandong Jianzhu University, No. 1000 Fengming Road, Lingang Development Zone, Jinan City, Shandong Province, People's Republic of China ~72: Liu Yulan;Lu Jianpeng;Qiao Kun;Wang Yongwei;Yu Kuan;Zhang Min;Zhu Bo~

2021/07316 ~ Complete ~54:AMINOCARBONYLCARBAMATE COMPOUNDS ~71:SK BIOPHARMACEUTICALS CO., LTD., 26, Jong-ro, Jongro-gu, Republic of Korea ~72: CHAE, Eun Hee;CHUNG, Jin Yong;HEO, Joon;KANG, Young Soon;LEE, Ki Ho;MAENG, Cheol Young;SHIN, Yu Jin;YI, Han Ju~ 33:US ~31:61/946,142 ~32:28/02/2014

2021/07324 ~ Complete ~54:CARRIER FOR ELECTRONIC EQUIPMENT ~71:FIELDTECH WEARABLE FIELD TECHNOLOGY (PTY) LTD, Block A, Ground floor, Cnr John Vorster and Karee Street, Irene, Ext 54, South Africa ~72: DU PLOOY, Raymond Allan;POTGIETER, Jan Samuel~ 33:GB ~31:2015522.2 ~32:30/09/2020

2021/07334 ~ Complete ~54:DEVICE FOR RANDOM BLOOD SUGAR TESTING AND THE METHOD OF ITS USE ~71:XGLU LABS a.s, Stefanikova 563, Czech Republic ~72: NOVAK, Marek~ 33:CZ ~31:PV 2019-228 ~32:11/04/2019

2021/07311 ~ Complete ~54:NO-CLEAN RANGE HOOD MECHANISM WITH VORTEX WIND AND LARGE SUCTION FORCE ~71:Luoyang Guoqi Electromechanical Technology Co., Ltd, 401-39, Building 1, Yinkun Science and Technology Park, No.6 Fenghua Road, Gaoxin District, China (Henan) Pilot Free Trade Zone, Luoyang City, Henan Province, People's Republic of China ~72: Chang Xinyue;Huang Huimin;Huang Huiying;Li Jing;Wu Qianqiong;Zheng Yuli~

2021/07326 ~ Complete ~54:COLLECTORS FOR BENEFICIATION ~71:BASF SE, CARL BOSCH STRASSE 38, 67056 LUDWIGSHAFEN AM RHEIN, GERMANY, Germany ~72: BAI, Qian;DICKIE, Scott,

Alexander;MICHAILOVSKI, Alexej;VILLANUEVA BERINDOAGUE, Adrian, Mauricio~ 33:CN
~31:PCT/CN2019/077005 ~32:05/03/2019;33:EP ~31:19168108.9 ~32:09/04/2019

2021/07329 ~ Complete ~54:METHOD AND DEVICE FOR DISINFECTING CLEAN ROOMS ~71:G f P S-
GESELLSCHAFT FÜR PRODUKTIONSHYGIENE UND STERILITÄTSSICHERUNG MBH,
TALBOTSTR. 21, 52068 AACHEN, GERMANY, Germany ~72: DIETZ, Simon~ 33:DE ~31:10 2019 108 397.4
~32:01/04/2019

2021/07306 ~ Provisional ~54:ANTIMICROBIAL PACKAGING ~71:SUPERIOR SPECIAL PROJECTS (PTY)
LTD, Old Mill Road, Ndabeni, Cape Town, South Africa ~72: Mark WILLIAMS~

2021/07318 ~ Complete ~54:COAL CRUSHING DEVICE FOR CONVEYOR AND UNDERGROUND COAL
CONVEYING SYSTEM ~71:SHANDONG UNIVERSITY OF SCIENCE AND TECHNOLOGY, No.579
Qianwangang Road, Huangdao District, Qingdao, Shandong, 266590, People's Republic of China ~72: LI,
Meng;LI, Zhicheng;LI, Zhuangzhuang;MIAO, Dejun;SUI, Xiuhua;XIU, Xiaojian~

2021/07341 ~ Complete ~54:METHOD FOR SELECTING THE COMPOSITION OF A CONSTRUCTION
MATERIAL COMPRISING AN EXCAVATED CLAY SOIL, METHOD AND SYSTEM FOR PREPARING SUCH A
CONSTRUCTION MATERIAL ~71:MATERR'UP, 50 Allee Ceres Technopole Domolandes, Parc Atlantisud
40230, Saint-Geours-de-Maremne, France ~72: MERCE, Manuel;NEUVILLE, Mathieu~ 33:FR ~31:1902304
~32:06/03/2019

2021/07336 ~ Complete ~54:HAIR CONDITIONING COMPOSITION ~71:UNILEVER GLOBAL IP LIMITED, Port
Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: ANDREW RICHARD AVERY;KELVIN BRIAN
DICKINSON~ 33:EP ~31:19171398.1 ~32:26/04/2019

2021/07343 ~ Complete ~54:DEVICE AND METHOD FOR WELDING CYLINDRICAL SECTIONS OF A CASING
~71:MOMEK SERVICES AS, P.O. Box 523 8601, Norway ~72: BERSVENDSEN, Jørn;JOHANSEN,
Alexander;KARLSEN, Finn Oscar~ 33:NO ~31:20190560 ~32:29/04/2019

2021/07345 ~ Provisional ~54:LIGHT SOURCE APPARATUS FOR PHOTOVOLTAIC CELLS ~71:Hermanus
Christoffel Petrus Human, 10A CLIFFORD ROAD, CHANCLIFF, South Africa ~72: Hermanus Christoffel Petrus
Human;JP Human~

2021/07321 ~ Complete ~54:DNA METHYLATION DATA PROCESSING PLATFORM AND METHOD FOR
PATIENTS WITH CARDIOVASCULAR DISEASES ~71:Harbin Medical University, No. 157, Baojian Road,
Nangang District, People's Republic of China ~72: WANG, Li;XU, Haotian;ZHAO, Hongying~ 33:CN
~31:202110122466.9 ~32:28/01/2021

2021/07327 ~ Complete ~54:DOWNMIXER AND METHOD OF DOWNMIXING ~71:FRAUNHOFER-
GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V., HANSASTRAßE
27C, 80686 MÜNCHEN, GERMANY, Germany ~72: DISCH, Sascha;EDLER, Bernd;FOTOPOULOU,
Eleni;MABEN, Pallavi;MULTRUS, Markus;REUTELHUBER, Franz~ 33:EP ~31:19161076.5 ~32:06/03/2019

2021/07325 ~ Complete ~54:ELECTROSURGICAL SYSTEM ~71:CREO MEDICAL LIMITED, Creo House Unit 2,
Beaufort Park, Beaufort Parkway, United Kingdom ~72: HANCOCK, Christopher Paul~ 33:GB ~31:1905926.0
~32:29/04/2019

2021/07338 ~ Complete ~54:METHODS OF REDUCING LARGE GRANULAR LYMPHOCYTE AND NATURAL
KILLER CELL LEVELS ~71:DREN BIO, INC., 400 Seaport Ct., Suite 102, Redwood City, California, 94063,

United States of America ~72: ARUN KASHYAP;NENAD TOMASEVIC;RUO SHI SHI~ 33:US ~31:62/826,660
~32:29/03/2019;33:US ~31:62/982,578 ~32:27/02/2020

2021/07340 ~ Complete ~54:TANGENTIAL VIRAL FILTRATION ~71:GENZYME CORPORATION, 50 Binney Street, Cambridge, MA, United States of America ~72: BROWER, Kevin;VETTER, Tarl~ 33:US ~31:62/816,786
~32:11/03/2019

2021/07319 ~ Complete ~54:METHOD FOR PREVENTING AND TREATING SCAB DISEASE ~71:Institute of Horticulture, Sichuan Academy of Agricultural Sciences, No.20 Jingjusi Road, Chengdu City, Sichuan Province, People's Republic of China ~72: Chen Dong;Jiang Guoliang;Li Jing;Liu Jia;Song Haiyan;Sun Shuxia;Tu Meiyan;Zhang Guowei~

2021/07330 ~ Complete ~54:MICROORGANISM PRODUCING L-AMINO ACID AND METHOD FOR PRODUCING L-AMINO ACID BY USING SAME ~71:CJ CHEILJEDANG CORPORATION, 330, DONGHO-RO, JUNG-GU, SEOUL 04560, REP OF KOREA, Republic of Korea ~72: CHOI, Sol;HUH, Lan;KIM, Hyun Ah;KIM, So-Yeon;LEE, Jin Nam;LEE, Sung Gun;PARK, Hye Min;YOO, Hye Ryun~ 33:KR ~31:10-2019-0054430
~32:09/05/2019

- APPLIED ON 2021/09/30 -

2021/07355 ~ Complete ~54:FLUORESCENT PCR METHOD FOR DETECTING HLA-B*15:02 ALLELE AND SPECIFIC PRIMER PROBE COMBINATION THEREOF ~71:SHAANXI LIFESEN CO., LTD., Building 1, Collaborative Innovation Port, Fengdong New City, Xixian New Area, Xi'an, Shaanxi Province, 721000, People's Republic of China ~72: DAI, Jiaxin;LU, Lu;LV, Yawei;XIAO, Lei;YANG, Yu~

2021/07351 ~ Complete ~54:WHOLE GRAIN CHINESE STEAMED BREAD PREPARED FROM FRESH WAXY CORN AND PREPARATION METHOD THEREOF ~71:Crop Research Institute, Shandong Academy of Agricultural Sciences, 202 Gongye North Road, Jinan, Shandong, 250100, People's Republic of China ~72: CHEN, Lirong;GONG, Kuijie;GUO, Yuqiu;LI, Xiaoyue;LIU, Kaichang;SUN, Linlin;XIA, Haiyong~

2021/07367 ~ Complete ~54:VERTICAL COMBINED BENDING MOMENT DATA PROCESSING METHOD AND SYSTEM FOR FULL LIFE CYCLE OF CONVENTIONAL SURFACE WARSHIP ~71:Naval University of Engineering, No. 717, Jiefang Avenue, Qiaokou District, Wuhan, 430030, People's Republic of China ~72: Fan WU;Jinlei MOU;Lin HUA;Shaosong MIN;Zhiyuan HU~

2021/07356 ~ Complete ~54:STREPTOMYCES SP. HL-66, AND FERMENTATION PRODUCT, MICROBIAL INOCULANT, AND USE THEREOF ~71:Northwest A and F University, No. 3, Taicheng Road, Yangling Demonstration Zone, Shaanxi Province, 712100, People's Republic of China;Weinan Dongwang Nonghua Biological Technology Co., Ltd., North side of Houhuai Road, Economic and Technological Development Zone, Weinan City, Shaanxi, 714019, People's Republic of China ~72: GU, Lihua;HAN, Lirong;SUN, Yubo;TANG, Shiqi;TIAN, Xiangrong;WU, Hao~ 33:CN ~31:202110797798.7 ~32:14/07/2021

2021/07366 ~ Complete ~54:GRAPHENE DOPED ZRB2-SiC COMPOSITE CERAMIC AND PREPARATION METHOD THEREOF ~71:Guangdong University of Petrochemical Technology, No. 139, Guandu Second Road, Maoming City, Guangdong Province, People's Republic of China ~72: Huang Jialiang;Liu Baoliang;Shi Xiaojun;Wang Yining~

2021/07381 ~ Complete ~54:MYCORRHIZAE AND/OR BACILLUS AMYLOLIQUEFACIENS LIQUID FERTILIZER COMPATIBLE FORMULATIONS ~71:Valent BioSciences LLC, 1910 Innovation Way, Suite 100, LIBERTYVILLE 60048, IL, USA, United States of America ~72: DEVISETTY, Bala N.~ 33:US ~31:62/827,500 ~32:01/04/2019

2021/07388 ~ Complete ~54:AN ORAL CANNABINOID TABLET ~71:NordicCan A/S, Dandyvej 19, VEJLE 7100, DENMARK, Denmark ~72: BOESEN, Dorte Schackinger;BRUUN, Heidi Ziegler;ERIKSEN, Ane;WITTORFF, Helle~ 33:CA ~31:3040513 ~32:17/04/2019;33:US ~31:16/386,477 ~32:17/04/2019

2021/07398 ~ Complete ~54:DISPOSITION OF REAGENTS IN ASSAY DEVICE ~71:VIDYA HOLDINGS LTD, Fifth Floor, 86 Hatton Garden, London, EC1N 8QQ, United Kingdom ~72: CALLUM ROBERTSON SMITH;DAVID R KLUG;MARKO DORRESTIJN;SHAO-JU LU;STEFAN LEO VAN WORKUM;VLAD TUREK~ 33:GB ~31:1902810.9 ~32:01/03/2019

2021/07375 ~ Complete ~54:LUBRICATING GREASE COMPRISING METAL SOAPS AND METAL COMPLEX SOAPS BASED ON R-10-HYDROXYOCTADECANOIC ACID ~71:FUCHS PETROLUB SE, Friesenheimer Str. 17, Germany ~72: Angela ROBBEN;Florian HAHN;Markus URBAN;Rolf LUTHER;Thomas LITTERS~ 33:DE ~31:10 2019 110 921.3 ~32:26/04/2019

2021/07363 ~ Complete ~54:DIBBLER FOR DETECTING SUITABLE SOIL MOISTURE IN DRYLAND ~71:Shanxi Institute of Organic Dryland Farming, Shanxi Agricultural University, No.81 Longcheng Street, Taiyuan City, Shanxi Province, People's Republic of China ~72: Chen Qiong;Jiang Chunxia;Liu Enke;Liu Huatao;Yang Ke;Zhai Guangqian;Zhang Dongmei;Zhang Wei~

2021/07389 ~ Complete ~54:FAST DISINTEGRATING CANNABINOID TABLETS ~71:NordicCan A/S, Dandyvej 19, VEJLE 7100, DENMARK, Denmark ~72: BOESEN, Dorte Schackinger;BRUUN, Heidi Ziegler;NIELSEN, Bruno Provstgaard~ 33:CA ~31:3040513 ~32:17/04/2019;33:CA ~31:3040532 ~32:17/04/2019;33:CA ~31:3040547 ~32:17/04/2019;33:US ~31:16/386,477 ~32:17/04/2019;33:CA ~31:3065042 ~32:13/12/2019;33:US ~31:16/713,580 ~32:13/12/2019

2021/07397 ~ Complete ~54:DISPOSITION OF REAGENTS IN ASSAY DEVICE ~71:VIDYA HOLDINGS LTD, Fifth Floor, 86 Hatton Garden, London, EC1N 8QQ, United Kingdom ~72: CALLUM ROBERTSON SMITH;DAVID R KLUG;MARKO DORRESTIJN;SHAO-JU LU;STEFAN LEO VAN WORKUM;VLAD TUREK~ 33:GB ~31:1902810.9 ~32:01/03/2019

2021/07400 ~ Complete ~54:A PROCESS OF INTEGRATING ELECTRICALLY CONDUCTIVE NANOPARTICULATE MATERIAL INTO AN ELECTRICALLY CONDUCTIVE CROSS-LINKED POLYMER MEMBRANE ~71:SUPERDIELECTRICS LTD, The Officers' Mess Royston Road, United Kingdom ~72: HIGHGATE, Donald James~ 33:GB ~31:1905107.7 ~32:10/04/2019

2021/07407 ~ Complete ~54:SIGNAL AMPLIFICATION SYSTEM, KIT, DETECTION METHOD FOR QUANTITATIVELY DETECTING SPECIFIC ANTIBODIES AGAINST ALLERGEN COMPONENTS ~71:Hangzhou Zheda Dixun Biological Gene Engineering Co., Ltd., 201, Bldg.2, No.568 Binkang Rd., Binjiang Dist., Hangzhou City, People's Republic of China ~72: CHEN, Shanshan;CHENG, Lin;LIU, Yi;LU, Weibing;WANG, Jiaofeng;WANG, Yifei;WU, Shandong;WU, Zhoujie;ZHOU, Xiandong~

2021/07348 ~ Provisional ~54:SWEET POTATO PRODUCT ~71:RIYP (PTY) LTD, 311, The Rondebosch, 2 Belmont Rd, South Africa ~72: UZAIR, Essack~

2021/07393 ~ Complete ~54:HAIR IMPLANTS COMPRISING ENHANCED ANCHORING AND MEDICAL SAFETY FEATURES ~71:LORIA PRODUCTS LLC, 3625 NW 82nd Avenue, Suite 402, United States of America ~72: LORIA, Victor~ 33:US ~31:16/293,171 ~32:05/03/2019;33:US ~31:16/552,740 ~32:27/08/2019

2021/07396 ~ Complete ~54:IMPROVEMENTS IN OR RELATING TO AN OPTICAL ELEMENT ~71:VIDYA HOLDINGS LTD, Fifth Floor, 86 Hatton Garden, London, EC1N 8QQ, United Kingdom ~72: CALLUM

ROBERTSON SMITH;DAVID R KLUG;MARKO DORRESTIJN;STEFAN LEO VAN WORKUM~ 33:GB
~31:1902788.7 ~32:01/03/2019;33:GB ~31:1902789.5 ~32:01/03/2019

2021/07362 ~ Complete ~54:A WHEAT SEED STORAGE CABINET ~71:Crop Research Institute, Shandong Academy of Agricultural Sciences, 202 Gongyebei Road, Licheng District, Jinan, Shandong, 250100, People's Republic of China ~72: Cao Xinyou;Cheng Dungong;Dai Haiying;Guo Jun;Han Ran;Li Faji;Li Haosheng;Liu Aifeng;Liu Cheng;Liu Jia;Liu Jianjun;Wang Xiaolu;Xu Wenjing;Zhai Shengnan;Zi Yan~

2021/07373 ~ Complete ~54:A SYSTEM FOR ASCERTAINING OPTICAL CHARACTERISTICS OF A GEMSTONE ~71:GOLDWAY TECHNOLOGY LIMITED, New World Tower, 16-18 Queens Road Central, People's Republic of China ~72: CHENG, Ka Wing;HUI, Koon Chung~ 33:HK ~31:19120292.8 ~32:01/03/2019

2021/07379 ~ Complete ~54:OPTICAL FLOW BASED VIDEO INTER PREDICTION ~71:Huawei Technologies Co., Ltd., Huawei Administration Building, Bantian, Longgang District, SHENZHEN 518129, GUANGDONG, CHINA (P.R.C.), People's Republic of China ~72: A, Jeeva Raj;KOTTECHA, Sagar;SETHURAMAN, Sriram~ 33:IN ~31:201931010751 ~32:19/03/2019

2021/07401 ~ Complete ~54:A MULTI-CHANNEL AUDIO ENCODER, DECODER, METHODS AND COMPUTER PROGRAM FOR SWITCHING BETWEEN A PARAMETRIC MULTI-CHANNEL OPERATION AND AN INDIVIDUAL CHANNEL OPERATION ~71:FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V., Hansastrasse 27c, Germany ~72: FOTOPOULOU, Eleni;FUCHS, Guillaume;MULTRUS, Markus;RAVELLI, Emmanuel (Deceased)~ 33:EP ~31:19167449.8 ~32:04/04/2019

2021/07403 ~ Complete ~54:TRANSACTION DATA PROCESSING AND DOCUMENT AND DATA MANAGEMENT METHOD AND SYSTEM ~71:SIXTH CENT (PTY) LTD, 141 Boshoff Street, Nieuw Muckleneuk, South Africa ~72: KILLASSY, Kirstie Clare;KILLASSY, Natalie~ 33:ZA ~31:2018/05694 ~32:27/02/2019;33:WO ~31:PCT/IB2020/051689 ~32:27/02/2020

2021/07357 ~ Complete ~54:AAV VECTORS FOR RETINAL AND CNS GENE THERAPY ~71:GENZYME CORPORATION, 500 Kendall Street, United States of America ~72: SCARIA, Abraham;SHIHABUDDIN, Lamya;STANEK, Lisa, M.;SULLIVAN, Jennifer~ 33:US ~31:61/988,131 ~32:02/05/2014;33:US ~31:62/114,575 ~32:10/02/2015

2021/07386 ~ Complete ~54:METHOD AND APPARATUS FOR PACKAGING RESPIRING PRODUCE ~71:Perfo Tec B.V., Klompenmakersweg 16, WOERDEN 3449 JB, THE NETHERLANDS, Netherlands ~72: BROUWER, Arthur;DE BRUIN, Martijn Willem;GROENEWEG, Bastiaan Rinke Antony;VAN DE LOO, Paulus Josephus Benedictus~ 33:NL ~31:2022786 ~32:21/03/2019;33:NL ~31:2023336 ~32:18/06/2019

2021/07395 ~ Complete ~54:IMPROVEMENTS IN OR RELATING TO A SAMPLE MANAGEMENT MODULE ~71:VIDYA HOLDINGS LTD, Fifth Floor, 86 Hatton Garden, London, EC1N 8QQ, United Kingdom ~72: CALLUM ROBERTSON SMITH;DAVID R KLUG;MARKO DORRESTIJN;STEFAN LEO VAN WORKUM~ 33:GB ~31:1902792.9 ~32:01/03/2019

2021/07399 ~ Complete ~54:ORAL CARE PRODUCT ~71:CURASEPT A.D.S. S.R.L., Via Giuseppe Parini, 19A, 21047, Saronno, Italy ~72: LORENZO EMILIANO BOIOCCHI~ 33:IT ~31:102019000003009 ~32:01/03/2019

2021/07353 ~ Complete ~54:A METHOD FOR PREDICTING YIELD AND QUALITY OF THE ALFALFA GRASS ~71:Institute of Animal Sciences, Ningxia Academy of Agricultural and Forestry Sciences, 590 Huanghe East Road, Jinfeng District, Yinchuan City, Ningxia Hui Autonomous Region, People's Republic of China;Lanzhou University, No. 768, Jiayuguan West Road, Chengguan District, Lanzhou, Gansu, People's Republic of China ~72: Chuan Wang;Fujiang Hou;Tianhui Yang;Ting Gao;Weidi Yang;Xiaochun Wang~

2021/07358 ~ Complete ~54:METHOD FOR TREATING ALZHEIMER'S DISEASE ~71:Biogen International Neuroscience GmbH, Landis + Gyr-Strasse 3, ZUG 6300, SWITZERLAND, Switzerland ~72: FERRERO, James L.;SEVIGNY, Jeffrey Joseph;WILLIAMS, Leslie Eugene~ 33:US ~31:62/086,674 ~32:02/12/2014;33:US ~31:62/111,874 ~32:04/02/2015;33:US ~31:62/149,133 ~32:17/04/2015;33:US ~31:62/195,119 ~32:21/07/2015

2021/07359 ~ Complete ~54:A METHOD FOR DETERMINING THE DATA WEIGHT OF TUNNEL MONITORING POINTS ~71:Qingdao University of Technology, No. 11 Fushun Road, Qingdao City, Shandong, 266033, People's Republic of China ~72: Chunli Li;Dongxian Li;Houlai Lin;Kaiqi Meng;Liang Li;Liang Xu;Shibao Lu;Xuesong Chu;Zhiliang Liu~ 33:CN ~31:202110542818.6 ~32:19/05/2021

2021/07360 ~ Complete ~54:WHEAT SCIENTIFIC RESEARCH WORK BAG ~71:Crop Research Institute, Shandong Academy of Agricultural Sciences, No.202 North Gongye Road, Licheng District, Jinan City, Shandong Province, People's Republic of China ~72: Cao Xinyou;Cheng Dungong;Guo Jun;Han Ran;Li Faji;Li Haosheng;Liu Aifeng;Liu Cheng;Liu Jia;Liu Jianjun;Wang Xiaolu;Xu Wenjing;Zhai Shengnan;Zi Yan~

2021/07364 ~ Complete ~54:A POROUS OCCLUDER FOR ATRIAL SEPTAL DEFECT ~71:Yan~39;an Affiliated Hospital of Kunming Medical University, No.245, East Renmin Road, Panlong District, Kunming, Yunnan, People's Republic of China ~72: Dai Hailong;Guang Xuefeng;Han Zhiyan;Jing Zhicheng~

2021/07365 ~ Complete ~54:SEED PRODUCTION AND HIGH YIELD METHOD OF MUSKMELON IN PROTECTED FIELD ~71:Shandong Academy of Agricultural Sciences, No.202 Industrial North Road, Licheng District, Jinan City, Shandong Province, People's Republic of China ~72: Dong Yumei;Gao Chao;Guang Lanchang;Huang Kedong;Jiao Zigao;Liu Fengling;Sun Jianlei;Wang Chongqi;Xiao Shouhua~

2021/07370 ~ Complete ~54:PACKAGING SIZING TEMPLATE ~71:KALIDECK (PTY) LTD., 2 John Street, SELBY, Johannesburg 2001, Gauteng, SOUTH AFRICA, South Africa ~72: GILLINGS, Nicholas John;JONKER, Ruan~ 33:ZA ~31:2020/07516 ~32:03/12/2020

2021/07376 ~ Complete ~54:METHODS FOR THE TREATMENT OF BETA-THALASSEMIA ~71:SANGAMO THERAPEUTICS, INC., Point Richmond Tech Center, 501 Canal Blvd Suite A100 Richmond, United States of America ~72: MILLER IV, Weston, P.;TOMARO, John;VAIDYA, Sagar, A.;WALTERS, Mark~ 33:US ~31:62/828,182 ~32:02/04/2019;33:US ~31:62/930,846 ~32:05/11/2019;33:US ~31:62/944,626 ~32:06/12/2019

2021/07378 ~ Complete ~54:METHOD AND APPARATUS FOR RECONDITIONING ORGANS ~71:UGLX Research AB, Bj~246;rnstorp Gods, GENARP 247 98 , SWEDEN, Sweden ~72: OLAUSSON, Michael~ 33:SE ~31:1930123-3 ~32:12/04/2019;33:SE ~31:1930125-8 ~32:12/04/2019

2021/07380 ~ Complete ~54:AN ARTICLE FOR USE IN A NON-COMBUSTIBLE AEROSOL PROVISION SYSTEM ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: AUSTIN, Mark;ENGLAND, William;GRISHCHENKO, Andrei;HEPWORTH, Richard;SEBOLD, Valerio;TAYLOR, Benjamin~ 33:GB ~31:1903290.3 ~32:11/03/2019;33:GB ~31:1918989.3 ~32:20/12/2019

2021/07384 ~ Complete ~54:ITACONIC ACID DERIVATIVES AND USES THEREOF IN TREATING AN INFLAMMATORY DISEASE OR A DISEASE ASSOCIATED WITH AN UNDESIRABLE IMMUNE RESPONSE ~71:Sitryx Therapeutics Limited, 101 Bellhouse Building, Magdalen Centre, The Oxford Science Park, OXFORD OX4 4GA , UNITED KINGDOM, United Kingdom ~72: COOKE, Michael Liam;COUSIN, David;FYFE, Matthew Colin Thor;TEOBALD, Barry John;THOM, Stephen Malcolm;WAUGH, Thomas Michael~ 33:EP ~31:19172051.5

~32:30/04/2019;33:EP ~31:19189910.3 ~32:02/08/2019;33:EP ~31:19217846.5 ~32:19/12/2019;33:EP
~31:20162494.7 ~32:11/03/2020

2021/07390 ~ Complete ~54:ANTI-INTEGRIN ANTIBODIES AND USES THEREOF ~71:Biogen MA Inc., 225
Binney Street, CAMBRIDGE 02142, MA, USA, United States of America ~72: BLAKELEY, Brett;GARDET,
Agnes;GRAFF, Christilyn;MULLEN, Tracey;PALMER, Christina~ 33:US ~31:62/830,961 ~32:08/04/2019

2021/07352 ~ Complete ~54:AN IMPROVED ALD METHOD FOR DEPOSITING CEO₂ ~71:Beijing University of
Technology, 100 Pingyuan Park, Chaoyang District, Beijing, People's Republic of China ~72: Guizhen
Zhang;Hong He;Shuzhen Li;Xiaodong Yang;Yameng Xu;Zeyuan He~

2021/07354 ~ Complete ~54:FLOW/OVERFLOW DISCHARGE MONITORING DEVICE FLOWING THROUGH
RAIN PERFORATED STRAINER ~71:Hebei University of Engineering, No. 19, Taiji Road, Economic and
Technological Development Zone, Handan, Hebei, People's Republic of China;Hohai University, No. 1, Xikang
Road, Gulou District, Nanjing, Jiangsu, People's Republic of China ~72: Fu, Xiaoran;Li, Bin;Li, Huayue;Li,
Yang;Liu, Jinjie;Luan, Qinghua;Lv, Rulan;Shi, Hongyuan;Xu, Huan~

2021/07368 ~ Complete ~54:2-(PHENYLOXY OR PHENYLTHIO)PYRIMIDINE DERIVATIVES AS HERBICIDES
~71:FMC CORPORATION, 2929 Walnut Street, Philadelphia, Pennsylvania, 19104, United States of America
~72: JOHN ROBBINS DEBERGH;NICHOLAS RYAN DEPREZ;PAULA LOUISE SHARPE;RAVISEKHARA
POCHIMIREDDY REDDY~ 33:US ~31:62/171,294 ~32:05/06/2015

2021/07371 ~ Complete ~54:AUTOMATED COOKING APPARATUS AND METHOD ~71:PLANET EYE (PTY)
LTD, 3 Anfield Village, Forest Drive Ext, Pinelands, South Africa ~72: KHALO, Maketele Gerald;LEFOKA,
Mmatseteng Precious;NKHUMISE, Reabetswe Michael;SEBOYENG, Lesiba Peter~ 33:ZA ~31:2020/04003
~32:01/07/2020

2021/07402 ~ Complete ~54:FASTENER ASSEMBLY SENSOR UNIT ~71:SALUNDA LIMITED, 6 Avonbury
Business Park, United Kingdom ~72: FINLAY, Alan Patrick John;NEWTON, John Mark;PICKLES, Philip Samuel~
33:GB ~31:1904172.2 ~32:26/03/2019;33:GB ~31:1906318.9 ~32:03/05/2019;33:GB ~31:1907447.5
~32:26/05/2019;33:GB ~31:1908506.7 ~32:13/06/2019;33:GB ~31:1911161.6 ~32:05/08/2019;33:GB
~31:1912349.6 ~32:28/08/2019

2021/07606 ~ Provisional ~54:VIDEO GENERATION VIA ANIMATION ~71:Tofara Moyo, 5 Protea lane,
Zimbabwe ~72: Tofara Moyo~

2021/07347 ~ Provisional ~54:A WIRELESS COMMUNICATIONS SYSTEM FOR A MARINE VESSEL
~71:POYNTING ANTENNAS (PTY) LIMITED, Unit 4, N1 Industrial Park, Landmarks Avenue, South Africa ~72:
FOURIE, Andries, Petrus, Cronje~

2021/07369 ~ Complete ~54:A METHOD OF MANUFACTURING A CLADDING TILE ~71:UNIVERSITY OF
PRETORIA, Lynnwood Road, Hillcrest, PRETORIA 0002, SOUTH AFRICA, South Africa ~72: HOFMEYR, Stuart
Grant;KEARSLEY, Elizabeth Paulina~ 33:ZA ~31:2020/06498 ~32:20/10/2020

2021/07372 ~ Complete ~54:HIGH SPEED DRILLING SYSTEM AND METHODS OF USING SAME ~71:BLY IP
INC., 2455 S. 3600 W., United States of America ~72: DRENTH, Christopher L.~ 33:US ~31:62/812,730
~32:01/03/2019

2021/07385 ~ Complete ~54:HIGH FLOW NON PRESSURISED FILLING CONTROL VALVE ~71:Weir Minerals
Australia Ltd, 1 Marden Street, ARTARMON 2064, NSW, AUSTRALIA, Australia ~72: BRYANT,

Aidan;FULFORD, John James;HANHINIEMI, Jeremy;LAURIKAINEN, Luke~ 33:AU ~31:2019900961
~32:21/03/2019

2021/07387 ~ Complete ~54:SYSTEM AND METHOD FOR DETECTING THERAPEUTIC AGENTS TO
MONITOR ADHERENCE TO A TREATMENT REGIMEN ~71:OraSure Technologies, Inc., 220 East First Street,
BETHLEHEM 18015, PA, USA, United States of America ~72: DAUGHTRIDGE, Giffin;KARDOS, Keith~ 33:US
~31:62/827,342 ~32:01/04/2019;33:US ~31:62/925,543 ~32:24/10/2019

2021/07391 ~ Complete ~54:AN ARTICLE FOR USE IN A NON-COMBUSTIBLE AEROSOL PROVISION
SYSTEM ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED
KINGDOM, United Kingdom ~72: AUSTIN, Mark;HEPWORTH, Richard;SEBOLD, Valerio;TAYLOR, Benjamin~
33:GB ~31:1903284.6 ~32:11/03/2019

2021/07394 ~ Complete ~54:RECOVERY OF PGMS AND CHROMITE FROM MIXED PGM/CR ORES
~71:ANGLO AMERICAN TECHNICAL & SUSTAINABILITY SERVICES LTD, 17 Charterhouse Street,
London, EC1N 6RA, United Kingdom ~72: ANTHONY OWEN FILMER;DANIEL JOHN ALEXANDER~ 33:US
~31:62/821,463 ~32:21/03/2019

2021/07404 ~ Provisional ~54:HEALTH COACH TINKIE ~71:Tjaartina Kuhn, 1113 Deyssel Street, South Africa
~72: Tjaartina Kuhn~

2021/07349 ~ Provisional ~54:METHOD OF PREPARING A SOLUTION FOR A PATHOLOGY TUBE
~71:MISZEWSKI, Alexandra Grace, 28 Brommaert Avenue, Constantia, South Africa;PRETORIUS, Judey, 16
Nicklaus Road, Silver Lakes Golf Estate, South Africa ~72: MISZEWSKI, Alexandra Grace;PRETORIUS, Judey~

2021/07361 ~ Complete ~54:COMBINED INACTIVATED VACCINE OF AEROMONAS VERONII AND
AEROMONAS HYDROPHILA AND LARGE-SCALE PREPARATION METHOD THEREOF ~71:Pearl River
Fishery Research Institute, Chinese Academy of Fishery Sciences, No. 1, Xingyu Road, Xilong, Fangcun, Liwan
District, Guangzhou City, Guangdong Province, People's Republic of China ~72: Chen Zonghui;Gong Hua;Huang
Zhibin;Jiang Xiaoyan;Lai Yingtiao;Liu Chunhua;Sun Chengwen;Tao Jiafa;Zhao Changchen~

2021/07350 ~ Provisional ~54:VERTICAL SHAFT KILN ~71:CSIR, Scientia, Meiring Naude Road, Brummeria,
Pretoria, 0184, South Africa ~72: JOSEPH MAPIRAVANA~

2021/07377 ~ Complete ~54:TUNNEL HAVING INTEGRATED LATERAL REINFORCEMENTS
~71:ARCELORMITTAL, 24-26, Boulevard d'Avranches, Luxembourg ~72: Gilson DONYA~ 33:IB
~31:PCT/IB2019/053328 ~32:23/04/2019

2021/07382 ~ Complete ~54:DLL3 TARGETING CHIMERIC ANTIGEN RECEPTORS AND BINDING AGENTS
~71:Allogene Therapeutics, Inc., 210 E. Grand Avenue, SOUTH SAN FRANCISCO 94080, CA, USA, United
States of America;Pfizer Inc., 235 East 42nd Street, NEW YORK 10017, NY, USA, United States of America ~72:
PANOWSKI, Siler;SASU, Barbra Johnson;TACHEVA-GRIGOROVA, Silvia K.;VAN BLARCOM, Thomas
John;ZHANG, Yi~ 33:US ~31:62/812,585 ~32:01/03/2019;33:US ~31:62/969,976 ~32:04/02/2020

2021/07383 ~ Complete ~54:METHOD AND APPARATUS FOR RECONDITIONING KIDNEYS ~71:UGLK
Science AB, Igel&sa 373, LUND S-225 94, SWEDEN, Sweden ~72: OLAUSSON, Michael~ 33:SE
~31:1930123-3 ~32:12/04/2019

2021/07392 ~ Complete ~54:CATALYTIC CONVERSION PROCESS AND SYSTEM WITH INCREASED
PROPYLENE PRODUCTION ~71:CHINA PETROLEUM & CHEMICAL CORPORATION, 22 Chaoyangmen
North Street, Chaoyang District, People's Republic of China;RESEARCH INSTITUTE OF PETROLEUM

PROCESSING, SINOPEC, 18 Xueyuan Road Haidian District, People's Republic of China ~72: BAI, Xuhui;HE, Mingyuan;WANG, Xin;WEN, Langyou;XU, Youhao~ 33:CN ~31:201910224119.X ~32:22/03/2019

2021/07405 ~ Provisional ~54:GYSIE ~71:BERDENE MULLER, Peter Mokaba 56, South Africa ~72: Berdene Muller~

2021/07374 ~ Complete ~54:SYSTEM AND METHOD FOR THE INTEGRATED USE OF PREDICTIVE AND MACHINE LEARNING ANALYTICS FOR A CENTER PIVOT IRRIGATION SYSTEM ~71:VALMONT INDUSTRIES, INC., One Valmont Plaza, United States of America ~72: KASTL, John;MOELLER, Mark;THATCHER, Tracy A.~ 33:US ~31:62/858,366 ~32:07/06/2019

- APPLIED ON 2021/10/01 -

2021/07422 ~ Complete ~54:DATA STORAGE AND TRANSFER DEVICE FOR AN AGRICULTURAL INTELLIGENCE COMPUTING SYSTEM ~71:The Climate Corporation, 201 Third Street, Suite 1100, SAN FRANCISCO 94103, CA, USA, United States of America ~72: DARDEN, Will;KIM, Jongjin;PETERSON, Aaron;RODRIGUEZ, Samuel~ 33:US ~31:62/813,629 ~32:04/03/2019

2021/07423 ~ Complete ~54:ASSEMBLY SYSTEM AND METHOD FOR PACKAGING WEB MATERIAL IN A ROLL ~71:Reynolds Consumer Products LLC, 1900 West Field Court, LAKE FOREST 60045, IL, USA, United States of America ~72: TONEY, Kenneth A.~ 33:US ~31:62/829,488 ~32:04/04/2019

2021/07427 ~ Complete ~54:SWITCH ASSEMBLY WITH DRIVE SYSTEM AND METHOD FOR DRIVING A SWITCH ~71:MASCHINENFABRIK REINHAUSEN GMBH, Falkensteinstraße 8, D-93059 Regensburg, Germany ~72: DITTMANN, Benjamin;NAGEL, Eugen;SCHMID, Sebastian~ 33:DE ~31:10 2019 112 711.4 ~32:15/05/2019

2021/07428 ~ Complete ~54:PORCINE CIRCOVIRUS TYPE 3 (PCV3) VACCINES, AND PRODUCTION AND USES THEREOF ~71:BOEHRINGER INGELHEIM ANIMAL HEALTH USA INC., 3239 Satellite Blvd., Duluth, Georgia, United States of America;IOWA STATE UNIVERSITY RESEARCH FOUNDATION, INC., 1805 Collaboration Place, Suite 2100, United States of America ~72: ANSTROM, David, Michael;ARRUDA, Bailey;GIMENEZ-LIROLA, Luis, Gabriel;HERNANDEZ, Luis, Alejandro;IYER, Arun;PATTERSON, Abby;PINEYRO PINEIRO, Pablo, E.;VAUGHN, Eric, M.~ 33:US ~31:62/829,400 ~32:04/04/2019

2021/07431 ~ Complete ~54:PARA-AMINOHIPPURIC ACID (PAH) AS A RENAL PROTECTIVE SUBSTANCE ~71:ITM ISOTOPE TECHNOLOGIES MUNICH SE, Schleißheimer Str. 91a 85748 Garching bei München, Germany ~72: KONSTANTIN ZHERNOSEKOV;MARIAN MECKEL;THERESA OSL~ 33:EP ~31:PCT/EP2019/061882 ~32:08/05/2019

2021/07419 ~ Complete ~54:SUPER ABSORBENT POLYMER AND A METHOD OF INCREASING SUGAR CONTENT IN PLANTS ~71:UPL LTD, Agrochemical Plant, Durgachak, Midnapore Dist., HALDIA 721 602, WEST BENGAL, INDIA, India ~72: BHONSLE, Nitin Shivaji;KHERALIYA, Sandhya~ 33:IN ~31:201931013590 ~32:04/04/2019

2021/07416 ~ Complete ~54:INJECTION DEVICE AND COMPONENTS THEREOF ~71:Otsuka Pharmaceutical Co., Ltd., 2-9 Kanda Tsukasa-machi, Chiyoda-ku, TOKYO 101-8535, JAPAN, Japan;Pulse Needlefree Systems, Inc., 8210 Marshall Drive, LENEXA 66214, KS, USA, United States of America ~72: ZOLOTUKHIN, Mikhail~ 33:US ~31:62/835,700 ~32:18/04/2019

2021/07411 ~ Complete ~54:HIGH-RIGIDITY PASSIVE COMPLIANCE DEVICE AND SINGLE LEG MECHANISM OF HYDRAULICALLY DRIVEN LEGGED ROBOT ~71:Anhui University of Science and

Technology, Anhui University of Science and Technology, No. 168 Taifeng Road, Huainan City, Anhui Province, 232001, People's Republic of China ~72: HUA, Zisen;SUN, Yaru;ZHANG, Zhiwei~

2021/07414 ~ Complete ~54:KILLER CELL LECTIN-LIKE RECEPTOR SUBFAMILY G MEMBER 1 (KLRG1) DEPLETING ANTIBODIES ~71:ABCURO, INC., 90 Bridge Street, United States of America ~72: GULLA, Stefano Vincenzo;THOMPSON, Kenneth Evan~ 33:US ~31:62/831,713 ~32:09/04/2019

2021/07420 ~ Complete ~54:DATA TRANSMISSION DEVICE AND METHOD, AND READABLE STORAGE MEDIUM ~71:Wuxi Hisky Medical Technologies Co., Ltd., B401, 530 Plaza, University Science Park, Taihu International Science & Technology Park, Xinwu District, WUXI 214000, JIANGSU, CHINA (P.R.C.), People's Republic of China ~72: DUAN, Houli;HE, Qiong;SHAO, Jinhua;SUN, Jin;SUN, Shibo~ 33:CN ~31:201910237373.3 ~32:27/03/2019

2021/07409 ~ Provisional ~54:PEPTIDE APTAMERS FOR SARS-COV-2 DETECTION ~71:DIAGNOSTIC APTAMER TECHNOLOGIES AMINOTEK PTY LTD, 31 Invermark Crescent, South Africa ~72: Ashley PRETORIUS;Olalekan Olanrewaju BAKARE~

2021/07417 ~ Complete ~54:BISPECIFIC ANTIBODY ~71:Ono Pharmaceutical Co., Ltd., 1-5, Doshomachi 2-chome, Chuo-ku, OSAKA-SHI 541-8526, OSAKA, JAPAN, Japan ~72: DE KRUIF, Cornelis Adriaan;KLOOSTER, Rinse;ROOVERS, Robertus Cornelis;SHIBAYAMA, Shiro;TEZUKA, Tomoya;THROSBY, Mark;VAN LOO, Pieter Fokko~ 33:JP ~31:2019-071840 ~32:04/04/2019;33:JP ~31:2020-022256 ~32:13/02/2020

2021/07432 ~ Complete ~54:PRODUCTION OF SYNTHESIS GAS FROM GASIFYING AND REFORMING CARBONACEOUS MATERIAL ~71:ENERKEM INC., 1130 Sherbrooke Street, West Montreal, Quebec, H3A 2M8, Canada ~72: BORIS VALSECCHI;GUILLAUME DROLET;JEAN-PIERRE CRETE;LOUIS DENOMME;MAXIME FOUCAULT;MICAEL BOULET~ 33:US ~31:62/833,158 ~32:12/04/2019

2021/07408 ~ Provisional ~54:A NANO EMULSIFIED PHYTO-DRUG FOR TRANSDERMAL TREATMENT OF DIABETES ~71:UNIVERSITY OF SOUTH AFRICA, Muckleneuk Campus, Theo van Wyk Building,, PRETORIA 0001, SOUTH AFRICA, South Africa ~72: AKINSIPO, Oyesolape Basirat;ALAYANDE, Samson Oluwagbemiga;DARE, Enock Olugbenga;KATARE, Deepshikha Pande;MSAGATI, T.A.M.;OLADOYINBO, Fatai Oladipupo;SANNI, Lateef~

2021/07418 ~ Complete ~54:INTERCHANGEABLE ENERGY DEVICE FOR ELECTRIC VEHICLE ~71:Artisan Vehicle Systems, Inc., 2385 Pleasant Valley Road, CAMARILLO 93012, CA, USA, United States of America ~72: HICKEY, Kyle;HUFF, Brian R.~ 33:US ~31:62/828,963 ~32:03/04/2019;33:US ~31:16/839,336 ~32:03/04/2020

2021/07421 ~ Complete ~54:COMPOUNDS, COMPOSITIONS, AND METHODS FOR THE TREATMENT OF DISEASE ~71:F-star Therapeutics, Inc., Eddeva B920, Babraham Research Campus, CAMBRIDGE CB22 3AT, UNITED KINGDOM, United Kingdom ~72: BASKARAN, Subramanian;CHALLA, Sreerupa;CLEARY, Dillon;GIMI, Rayomand H.;IYER, Radhakrishnan P.;MASTROLIA, Ron;NAIR, Vishal;PADMANABHAN, Seetharamaiyer;SHERI, Anjaneyulu;SUPPIAH, Leena Praba;ZHOU, Shenghua~ 33:US ~31:62/814,025 ~32:05/03/2019;33:US ~31:62/879,178 ~32:26/07/2019

2021/07412 ~ Complete ~54:DOUBLE-PISTON-ROD HYDRAULIC SERVO OIL CYLINDER APPLIED TO HYDRAULICALLY DRIVEN LEG ROBOT ~71:Anhui University of Science and Technology, Anhui University of Science and Technology, No. 168 Taifeng Road, Huainan City, Anhui Province, 232001, People's Republic of China ~72: HUA, Zisen;SUN, Yaru;WANG, Chengjun~ 33:CN ~31:202110954212.3 ~32:19/08/2021

2021/07415 ~ Complete ~54:FORMWORK PANEL MADE OF METAL FOR CONCRETE FORMWORK ~71:PERI AG, Rudolf-Diesel-Strasse 19, Germany ~72: BELMANN, Eugen;SCHNEIDER, Werner~ 33:DE ~31:10 2019 002 566.0 ~32:08/04/2019

2021/07434 ~ Complete ~54:A MULTICHAMBERED URINE COLLECTION DEVICE ~71:GUESSOUM, Souheil, 17 Bis, ValD'hydra, Algeria;STAALI, Amine, 104 DIMAS Building Block 5, Muweilah Commercial, United Arab Emirates ~72: GUESSOUM, Souheil;STAALI, Amine~ 33:US ~31:62/812,985 ~32:02/03/2019

2021/07410 ~ Complete ~54:SINGLE LEG MECHANISM OF HYDRAULIC LEG ROBOT WITH PASSIVE FLEXIBLE KNEE JOINT ~71:Anhui University of Science and Technology, Anhui University of Science and Technology, No. 168 Taifeng Road, Huainan City, Anhui Province , 232001, People's Republic of China ~72: HUA, Zisen;LI, Long;SUN, Yaru;TIAN, Xing~

2021/07426 ~ Complete ~54:BISPECIFIC ANTIBODIES ~71:Novo Nordisk A/S, Novo Allé, BAGSVAERD 2880, DENMARK, Denmark ~72: ØSTERGAARD, Henrik;BREINHOLT, Jens;GANDHI, Prafull S.~ 33:EP ~31:19169704.4 ~32:17/04/2019;33:EP ~31:19213867.5 ~32:05/12/2019

2021/07429 ~ Complete ~54:STIFFENER FOR CONSTRUCTION ELEMENTS ~71:SAINT-GOBAIN PLACO, 34 Avenue Franklin Roosevelt, France ~72: AHMED, Rizwan;S, Vikram;SAMINATHAN, Kanakavel~ 33:IN ~31:201941016268 ~32:24/04/2019

2021/07424 ~ Complete ~54:PROTECTIVE LINER FOR CRUSHER ~71:Metso Outotec Finland OY, P.O. Box 306, TAMPERE 33101, FINLAND, Finland ~72: PERSSON, Henrik;VAN ZYL, Ian~ 33:EP ~31:19167370.6 ~32:04/04/2019

2021/07413 ~ Complete ~54:PROTECTIVE HEADGEAR ~71:ISITECH (PTY) LTD, 62 Rottingdean Road, South Africa ~72: CESAREAN, Diana;PARKIN, Norman Frederick~ 33:ZA ~31:2020/04062 ~32:03/07/2020

2021/07430 ~ Complete ~54:FAT COMPOSITIONS COMPRISING SAT2O TRIGLYCERIDES ~71:AAK AB (PUBL), Skrivaregatan 9, 21532, Malmö, Sweden ~72: BJARNE JUUL~ 33:SE ~31:1950284-8 ~32:06/03/2019

2021/07425 ~ Complete ~54:BICYCLE TOXIN CONJUGATES AND USES THEREOF ~71:BicycleTX Limited, Building 900, Babraham Research Campus, CAMBRIDGE CB22 3AT, UNITED KINGDOM, United Kingdom ~72: BENNETT, Gavin;LAHDENRANTA, Johanna~ 33:US ~31:62/827,899 ~32:02/04/2019;33:US ~31:62/845,954 ~32:10/05/2019;33:US ~31:62/893,835 ~32:30/08/2019

2021/07433 ~ Complete ~54:WEIGHT MEASUREMENT SYSTEM, WEIGH HEAD APPARATUS AND METHODS ~71:DURADIAMOND SOFTWARE LIMITED, The Steadings Laigh of Rossie, Whitemoss Road, Dunning, PH2 0QY, United Kingdom ~72: JAMES JOHN PUGH;JAMES WILLIAM HOLLAND~ 33:GB ~31:1902880.2 ~32:04/03/2019

- APPLIED ON 2021/10/04 -

2021/07444 ~ Complete ~54:NLRP3 INFLAMMASOME INHIBITORS ~71:NOVARTIS AG, Lichtstrasse 35, Switzerland ~72: FARADY, Christopher;FOOKS SOLOVAY, Catherine;GOMMERMANN, Nina;JANSER, Philipp;MACKAY, Angela;MATTESS, Henri;SMITH, Nichola;STIEFL, Nikolaus Johannes;VANGREVELINGHE, Eric;VELCICKY, Juraj;VON MATT, Anette~ 33:US ~31:62/849,245 ~32:17/05/2019

2021/07458 ~ Complete ~54:USER DEVICE AND BASE STATION DEVICE ~71:NTT DOCOMO, INC., 11-1, Nagatacho 2-chome, Chiyoda-ku, TOKYO 100-6150, JAPAN, Japan ~72: HANAOKI, Akihito;TAKAHASHI, Hideaki~

2021/07446 ~ Complete ~54:FUNCTIONAL CONTROL AND AGE VERIFICATION OF ELECTRONIC DEVICES THROUGH SPEAKER COMMUNICATION ~71:RAI STRATEGIC HOLDINGS, INC., 401 North Main Street, Winston-Salem, United States of America ~72: HUBBARD, Sawyer~ 33:US ~31:62/828,222 ~32:02/04/2019;33:US ~31:16/441,903 ~32:14/06/2019

2021/07462 ~ Complete ~54:AEROSOL PROVISION SYSTEM ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: ASHRAF, Muhammad Fahim;AUSTIN, Mark;HEPWORTH, Richard;TAYLOR, Benjamin;TRANI, Marina~ 33:GB ~31:1903264.8 ~32:11/03/2019

2021/07441 ~ Complete ~54:METHOD FOR SEPARATING CHOLESTEROL IN PHOSPHOLIPID MEMBRANE USING MODIFIED BASE ~71:GUANGDONG UNIVERSITY OF PETROCHEMICAL TECHNOLOGY, No. 139, Guandu Second Road, Guangdong Province, People's Republic of China ~72: BI, Hongmei;CHEN, Qianling;CHEN, Zeqin;QIU, Jiaqin;SHI, Guobin~ 33:CN ~31:202110930261.3 ~32:13/08/2021

2021/07442 ~ Complete ~54:GRINDER HAVING BLOCKING ELEMENT ~71:JOMA KUNSTSTOFFTECHNIK GMBH, Wolfholzgasse 14-16, Austria ~72: FRIES, Rudolf~ 33:AT ~31:A 50384/2019 ~32:26/04/2019

2021/07453 ~ Complete ~54:METHODS FOR CROSS COMPONENT DEPENDENCY REDUCTION ~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;ZHIPIN DENG~ 33:CN ~31:PCT/CN2019/083846 ~32:23/04/2019

2021/07457 ~ Complete ~54:PROCESS FOR PREPARING 4-AMINO-5-METHYLPYRIDONE ~71:Bayer Aktiengesellschaft, Kaiser-Wilhelm-Allee 1, LEVERKUSEN 51373, GERMANY, Germany;Bayer Pharma Aktiengesellschaft, Müllerstr. 178, BERLIN 13353, GERMANY, Germany ~72: PLATZEK, Johannes~ 33:EP ~31:19160906.4 ~32:05/03/2019

2021/07463 ~ Complete ~54:AN AEROSOL PROVISION SYSTEM ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: ABI AOUN, Walid;ENGLAND, William;FORSTER, Mark;HEPWORTH, Richard;SEBOLD, Valerio~ 33:GB ~31:1903288.7 ~32:11/03/2019

2021/07440 ~ Provisional ~54:TREATMENT AND PREVENTION OF POST-ACUTE SEQUELAE OF SARS-COV-2 INFECTION ~71:COETZEE, Jacobus Cornelis, Unit 4B The Ridge Office Park, Off Corner Doordekraal and Durban Roads, South Africa ~72: COETZEE, Jacobus Cornelis~

2021/07450 ~ Complete ~54:MOST PROBABLE MODE LIST CONSTRUCTION FOR MATRIX-BASED INTRA PREDICTION ~71:BEIJING BYTEDANCE NETWORK TECHNOLOGY CO., LTD., Room B-0035, 2/F, No.3 Building, No.30, Shixing Road, Shijingshan District,, Beijing, 100041, People's Republic of China;BYTEDANCE INC., 12655 West Jefferson Boulevard, Sixth Floor, Suite No. 137, Los Angeles, California, 90066, United States of America ~72: HONGBIN LIU;JIZHENG XU;KAI ZHANG;LI ZHANG;ZHIPIN DENG~ 33:CN ~31:PCT/CN2019/082424 ~32:12/04/2019

2021/07466 ~ Complete ~54:RITUXIMAB-RESISTANT CHIMERIC ANTIGEN RECEPTORS AND USES THEREOF ~71:Allogene Therapeutics, Inc., 210 E. Grand Avenue, SOUTH SAN FRANCISCO 94080, CA, USA, United States of America ~72: LEONARD, Mark W.;PERTEL, Thomas Charles;SASU, Barbra Johnson~ 33:US ~31:62/839,455 ~32:26/04/2019;33:US ~31:63/005,041 ~32:03/04/2020

2021/07456 ~ Complete ~54:SYNTHESIS OF 4-AMINO-5-METHYL-1H-PYRIDIN-2(1H)-ON (INTERMEDIATE COMPOUND FOR THE SYNTHESIS OF THE MR ANTAGONIST FINERENONE) FROM 2-CHLORO-5-METHYL-4-NITRO-PYRIDINE-1-OXIDE USING THE INTERMEDIATE COMPOUND 2-CHLORO-5-METHYL-4-PYRIDINAMINE ~71:Bayer Aktiengesellschaft, Kaiser-Wilhelm-Allee 1, LEVERKUSEN 51373, GERMANY, Germany;Bayer Pharma Aktiengesellschaft, Müllerstr. 178, BERLIN 13353, GERMANY, Germany ~72: LOVIS, Kai;PLATZEK, Johannes~ 33:EP ~31:19160904.9 ~32:05/03/2019

2021/07452 ~ Complete ~54:RESTRICTION ON APPLICABILITY OF CROSS COMPONENT MODE ~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;ZHIPIN DENG~ 33:CN ~31:PCT/CN2019/083320 ~32:18/04/2019

2021/07460 ~ Complete ~54:AN ARTICLE FOR USE IN A NON-COMBUSTIBLE AEROSOL PROVISION SYSTEM ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: ENGLAND, William;FORSTER, Mark;HEPWORTH, Richard;HOLFORD, Steven;SEBOLD, Valerio~ 33:GB ~31:1903281.2 ~32:11/03/2019;33:GB ~31:1918990.1 ~32:20/12/2019

2021/07437 ~ Provisional ~54:METAL PACKAGE FOR CANNABIS ~71:Wayne Snyman, Portion 36, Witfontein, South Africa ~72: Wayne Snyman~

2021/07454 ~ Complete ~54:DETERGENT COMPOSITIONS ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: HÉLDER DANIEL PEIXOTO DA SILVA;KATHERINE MARY THOMPSON~ 33:EP ~31:19167694.9 ~32:05/04/2019

2021/07438 ~ Provisional ~54:LEVEL FILLING ARRANGEMENT ~71:FILMATIC PACKAGING SYSTEMS (PTY) LTD, 130 Jan van Riebeeck Road, South Africa ~72: Christoffel Avril MIJBURGH;William Lennox OCHSE~

2021/07455 ~ Complete ~54:METHOD AND SYSTEM FOR CONTROLLING THE OPERATION OF A CSP RECEIVER ~71:VAST SOLAR PTY LTD, 226 Liverpool Street, Darlinghurst, New South Wales, 2010, Australia ~72: ALLAN CURTIS;KURT FRIEDRICH DREWES;NICOLE ANN BLINCO~ 33:AU ~31:2019900731 ~32:06/03/2019

2021/07435 ~ Provisional ~54:CANDLE LEVELLER ~71:DonaAgency PtyLtd, 1115 BURNETT STREET, HATFIELD SQUARE, South Africa ~72: DonaAgency PtyLtd~

2021/07465 ~ Complete ~54:STAT DEGRADERS AND USES THEREOF ~71:Kymera Therapeutics, Inc., 200 Arsenal Yards Blvd., Suite 230, WATERTOWN 02472, MA, USA, United States of America ~72: Ji, Nan;MAINOLFI, Nello;YANG, Bin;ZHANG, Yi~ 33:US ~31:62/830,095 ~32:05/04/2019;33:US ~31:62/833,331 ~32:12/04/2019;33:US ~31:62/855,259 ~32:31/05/2019;33:US ~31:62/860,512 ~32:12/06/2019;33:US ~31:62/875,362 ~32:17/07/2019;33:US ~31:62/877,051 ~32:22/07/2019;33:US ~31:62/887,872 ~32:16/08/2019;33:US ~31:62/926,127 ~32:25/10/2019;33:US ~31:62/932,957 ~32:08/11/2019;33:US ~31:62/944,810 ~32:06/12/2019;33:US ~31:62/947,310 ~32:12/12/2019;33:US ~31:62/949,053 ~32:17/12/2019;33:US ~31:62/967,921 ~32:30/01/2020

2021/07447 ~ Complete ~54:FUNCTIONAL CONTROL AND AGE VERIFICATION OF ELECTRONIC DEVICES THROUGH VISUAL COMMUNICATION ~71:RAI STRATEGIC HOLDINGS, INC., 401 North Main Street, Winston-Salem, United States of America ~72: ALLER, Jared;DAUGHERTY, Sean;HUBBARD, Sawyer;IRELAND, Vince;LEYES, Charles A;LUKAN, Sean~ 33:US ~31:62/828,222 ~32:02/04/2019;33:US ~31:16/441,937 ~32:14/06/2019

2021/07464 ~ Complete ~54:AN ARTICLE FOR USE IN A NON-COMBUSTIBLE AEROSOL PROVISION SYSTEM ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: ENGLAND, William;HEPWORTH, Richard;SEBOLD, Valerio~ 33:GB ~31:1903282.0 ~32:11/03/2019

2021/07436 ~ Provisional ~54:A MOUNTING ARRANGEMENT ~71:RITCHIE, Donovan, James, 1060 WOODHILL DRIVE, WOODHILL GOLF ESTATE, PRETORIA, 0076, SOUTH AFRICA, South Africa ~72: RITCHIE, Donovan, James~

2021/07467 ~ Complete ~54:METHOD AND DEVICE FOR INTELLIGENT PRODUCT QUALITY DETECTION ~71:NANJING INSTITUTE OF COGNITIVE IOT, Room 419, R & D Incubation Complex Building, Nanjing Baixia High-tech Industrial Park, No. 5 Yongzhi Road, Qinhuai District, Nanjing, People's Republic of China ~72: LI, Guozhi;LIU, Hehui;LIU, Xiyang;WANG, Liming~ 33:CN ~31:202010709986.5 ~32:22/07/2020

2021/07451 ~ Complete ~54:CHROMA CODING MODE DETERMINATION BASED ON MATRIX-BASED INTRA PREDICTION ~71:BEIJING BYTEDANCE NETWORK TECHNOLOGY CO., LTD., Room B-0035, 2/F, No.3 Building, No.30, Shixing Road, Shijingshan District., Beijing, 100041, People's Republic of China;BYTEDANCE INC., 12655 West Jefferson Boulevard, Sixth Floor, Suite No. 137, Los Angeles, California, 90066, United States of America ~72: HONGBIN LIU;JIZHENG XU;KAI ZHANG;LI ZHANG;ZHIPIN DENG~ 33:CN ~31:PCT/CN2019/082424 ~32:12/04/2019

2021/07461 ~ Complete ~54:LYSINS AND DERIVATIVES THEREOF WITH BACTERICIDAL ACTIVITY AGAINST PSEUDOMONAS AERUGINOSA, IN THE PRESENCE OF HUMAN SERUM ~71:ContraFect Corporation, 28 Wells Avenue, 3rd Floor, YONKERS 10701, NY, USA, United States of America ~72: SCHUCH, Raymond~ 33:US ~31:62/830,207 ~32:05/04/2019

2021/07443 ~ Complete ~54:APPARATUS AND METHOD FOR INSTALLATION OF SUPPORT POSTS FOR A VEHICLE RESTRAINT SYSTEM ~71:PETTERS, Karl, 22 Meadow Lane, Newmarket Suffolk, United Kingdom ~72: PETTERS, Karl~ 33:GB ~31:1903442.0 ~32:13/03/2019;33:GB ~31:1915350.1 ~32:23/10/2019;33:GB ~31:2000170.7 ~32:07/01/2020;33:GB ~31:2000852.0 ~32:21/01/2020

2021/07448 ~ Complete ~54:GRP78 AND/OR HSP70 INHIBITORS FOR THERAPEUTIC USE ~71:GHP SCIENTIFIC LIMITED, 57a Epirus Road, London, SW6 7UR, United Kingdom ~72: GELTRUDE MINGRONE~ 33:IT ~31:102019000003273 ~32:06/03/2019

2021/07439 ~ Provisional ~54:COMPOSITION-OF-MATTER INVENTION ~71:Correctives South Africa (Pty) Ltd, 3 Vesperdene road, Green Point, Cape Town, 8005, South Africa ~72: Shenai Bridglall~

2021/07445 ~ Complete ~54:METHODS OF ANTI-TUMOR THERAPY ~71:VASCULAR BIOGENICS LTD., 8 HaSatat St 7178106, Israel ~72: FAIN-SHMUELI, Shifra;RACHMILEWITZ MINEI, Tamar~ 33:US ~31:62/817,735 ~32:13/03/2019

2021/07459 ~ Complete ~54:COMPOSITION OF STYRENIC POLYMERS DERIVED THROUGH DEPOLYMERIZATION OF POLYSTYRENE ~71:GreenMantra Recycling Technologies Ltd., 81 Elgin Street, BRANTFORD N3S 5A1, ONTARIO, CANADA, Canada ~72: DI MONDO, Domenic;SCOTT, Benjamin~ 33:US ~31:62/829,482 ~32:04/04/2019

2021/07449 ~ Complete ~54:PORTABLE COMMUNICATION DEVICE INCLUDING DISPLAY ~71:SAMSUNG ELECTRONICS CO., LTD., 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea ~72: JEONG WOO;JUNGCHUL AN~ 33:KR ~31:10-2019-0160970 ~32:05/12/2019;33:KR ~31:10-2020-0015894 ~32:10/02/2020

- APPLIED ON 2021/10/05 -

2021/07479 ~ Complete ~54:AN ENCODER, A DECODER AND CORRESPONDING METHODS FOR INTER PREDICTION ~71:Huawei Technologies Co., Ltd., Huawei Administration Building, Bantian, Longgang District, SHENZHEN 518129, GUANGDONG, CHINA (P.R.C.), People's Republic of China ~72: A, Jeeva Raj;KOTTECHA, Sagar;SETHURAMAN, Sriram~ 33:IN ~31:201931009184 ~32:08/03/2019

2021/07480 ~ Complete ~54:TOWING ARRANGEMENT AND MINE MACHINE ~71:Sandvik Mining and Construction Oy, Pihtisulunkatu 9, TAMPERE 33330, FINLAND, Finland ~72: HIMANEN, Timo~ 33:EP ~31:19172195.0 ~32:02/05/2019

2021/07500 ~ Complete ~54:TARPAULIN SUPERSTRUCTURE ~71:European Trailer Systems GmbH, Im Moerser Feld 1f, Moers, 47441, Germany ~72: Markus LEUKERS;Mathias LUDWIG~ 33:DE ~31:202019101728.7 ~32:26/03/2019;33:DE ~31:202019101781.3 ~32:28/03/2019

2021/07468 ~ Provisional ~54:SHOE FRAGRANCE ~71:Onke Aphelele Majiza, 2 Theos Chea Prinsberg Avenue, South Africa ~72: Onke Aphelele Majiza~ 33:ZA ~31:ZA20211309201 ~32:04/10/2021

2021/07474 ~ Complete ~54:SULCARDINE SALTS ~71:HUYA BIOSCIENCE INTERNATIONAL, LLC, 12531 High Bluff Drive, Suite 138, United States of America ~72: BENSON, Joseph Edward Gordon;COLLINS, Sarah;ELLIOTT, Gary T.;GILLINGS, Mireille;GOODENOW, Robert;REECE, Hayley Ann;ROMANO, Suzanne J.;TYREE, Curtis~ 33:US ~31:62/798,467 ~32:29/01/2019;33:US ~31:62/959,687 ~32:10/01/2020

2021/07495 ~ Complete ~54:COOLING SYSTEM FOR COMPUTER COMPONENTS ~71:SUBMER TECHNOLOGIES, S.L., Carrer Metal.lúrgia 49, 08908 L' Hospitalet de Llobregat, Spain ~72: DANIEL ESTEVE POPE PALACÍN;DAVID MONTES MONTESERIN;JOAN BESARES MATAS;JORDI BRICOLLÉ SANCHE;MIGUEL GINER GUTIÉRREZ;POL VALLS SOLER~

2021/07482 ~ Complete ~54:PESTICIDAL COMPOSITIONS ~71:Syngenta Crop Protection AG, Rosentalstrasse 67, BASEL 4058, SWITZERLAND, Switzerland ~72: BUCHHOLZ, Anke;HATT (deceased), Fabienne;POPP, Christian;REINER, Werner;SCHNEIDER, Daniel~ 33:EP ~31:19168504.9 ~32:10/04/2019

2021/07487 ~ Complete ~54:AEROSOL GENERATION ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: ABI AOUN, Walid;ENGLAND, William;HEPWORTH, Richard;PATON, David;SEBOLD, Valerio~ 33:GB ~31:1903291.1 ~32:11/03/2019

2021/07492 ~ Complete ~54:MARINE OUTBOARD MOTOR WITH IMPROVED FLOW SENSING ~71:COX POWERTRAIN LIMITED, The Cecil Pashley Building, 8 Cecil Pashley Way, Brighton City Airport, Lancing, Sussex, BN43 5FF, United Kingdom ~72: RICHARD CORNWELL~ 33:GB ~31:1904773.7 ~32:04/04/2019

2021/07478 ~ Complete ~54:CHARGED ION CHANNEL BLOCKERS AND METHODS FOR USE ~71:NOCION THERAPEUTICS, INC., 100 Beaver Street, Suite 308, United States of America ~72: COLE, Bridget, M.;ELLIS, James, Lamond~ 33:US ~31:62/816,434 ~32:11/03/2019;33:US ~31:62/931,590 ~32:06/11/2019

2021/07486 ~ Complete ~54:AEROSOL PROVISION SYSTEM ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: ABI AOUN, Walid;ENGLAND, William~ 33:GB ~31:1903285.3 ~32:11/03/2019

2021/07499 ~ Complete ~54:COMPOUNDS, COMPOSITIONS AND METHODS ~71:DENALI THERAPEUTICS INC., 161 Oyster Point Blvd. South San Francisco, United States of America ~72: DE VICENTE FIDALGO, Javier;ESTRADA, Anthony A.;FENG, Jianwen A.;SWEENEY, Zachary K.~ 33:US ~31:62/832,775 ~32:11/04/2019

2021/07484 ~ Complete ~54:HETEROCYCLIC COMPOUNDS AND USES THEREOF ~71:Nuvation Bio Inc., 1500 Broadway, Ste. 1401, NEW YORK 10036, NY, USA, United States of America ~72: CHAKRAVARTY, Sarvajit;JAISWAL, Puja;KANKANALA, Jayakanth;KUMAR, Varun;PALVE, Deepak;PHAM, Son Minh;PUJALA, Brahmam;SONI, Sanjeev~ 33:US ~31:62/831,665 ~32:09/04/2019

2021/07489 ~ Complete ~54:ENERGY STORAGE SYSTEM FOR A BOW ~71:FeraDyne Outdoors, LLC, 101 Main Street, SUPERIOR 54880, WI, USA, United States of America ~72: BECK, Mark W.;BLOSSER, Benjamin D.;HAAS, Matthew Peter~ 33:US ~31:62/830,208 ~32:05/04/2019;33:US ~31:62/885,540 ~32:12/08/2019

2021/07501 ~ Provisional ~54:SELF GENERATOR THAT IS NOT USING PETROL OR DIESEL ~71:PITSO COLLY MOLOBELA, 2112 IVORYPARK EXT 2, MOKONE STREET, South Africa ~72: PITSO COLLY MOLOBELA~

2021/07494 ~ Complete ~54:BTK INHIBITOR RING DERIVATIVE, PREPARATION METHOD THEREFOR AND PHARMACEUTICAL APPLICATION THEREOF ~71:SICHUAN HAISCO PHARMACEUTICAL CO., LTD., No.136 Beverley Road, Across The Taiwan Strait Technology Industry Development Park, Wenjiang District, Chengdu City, Sichuan, 611130, People's Republic of China ~72: CHEN ZHANG;FEI YE;GUOZHI ZHU;JIANMIN WANG;PANGKE YAN;PINGMING TANG;SHOUTAO WU;XIAOGANG CHEN;YAO LI;YUTING LIAO;ZHENGANG HUANG~ 33:CN ~31:201910454977.3 ~32:31/05/2019;33:CN ~31:201910706239.3 ~32:02/08/2019;33:CN ~31:201910997078.8 ~32:25/10/2019;33:CN ~31:201911291561.0 ~32:16/12/2019

2021/07470 ~ Provisional ~54:MANDELA WORLD BOXING LEGACY (MWBL) ~71:Mthuthuzeli Gladman Kope, Chantal Place, 454 Skurweberg, South Africa ~72: Mthuthuzeli Gladman Kope~

2021/07472 ~ Complete ~54:COMPOUNDS USEFUL AS KINASE INHIBITORS ~71:Loxo Oncology, Inc., Lilly Corporate Center, INDIANAPOLIS 46285, IN, USA, United States of America ~72: GUISTOT, Nicolas~ 33:GB ~31:1522245.8 ~32:16/12/2015;33:GB ~31:1613945.3 ~32:15/08/2016

2021/07476 ~ Complete ~54:ELECTROCHEMICAL PRODUCTION OF POLYMERS ~71:HOE, Hui Huang, No. 11, Lorong Seroja, Parit Haji Yusof, Batu 36, Jalan Johor, 82000, Pontian, Johor, Malaysia;HOE, Hui Ming, No. 11, Lorong Seroja, Parit Haji Yusof, Batu 36, Jalan Johor, 82000, Pontian, Johor, Malaysia ~72: HOE, Hui Huang;HOE, Hui Ming~ 33:US ~31:62/815,574 ~32:08/03/2019

2021/07469 ~ Provisional ~54:A MANHOLE COVER ~71:REO GROUP (PTY) LTD, UNIT 2, THE BARN, 16 ARIANE STREET, South Africa ~72: WOLFAARDT, ERHARD~

2021/07471 ~ Complete ~54:COMPOUNDS USEFUL AS KINASE INHIBITORS ~71:Loxo Oncology, Inc., Lilly Corporate Center, INDIANAPOLIS 46285, IN, USA, United States of America ~72: GUISTOT, Nicolas~ 33:GB ~31:1522245.8 ~32:16/12/2015;33:GB ~31:1613945.3 ~32:15/08/2016

2021/07488 ~ Complete ~54:TOPICAL FORMULATIONS CONTAINING PHTHALOCYANINE PHOTSENSITIZERS ~71:Molteni Therapeutics S.R.L., Via Barontini 8, Loc. Granatieri, SCANDICCI 50018, ITALY, Italy ~72: CHITI, Giacomo;COCCHI, Annalisa;FANTETTI, Lia;GIULIANI, Francesco;MONTI, Daniela;MUNICCHI, Moira;RONCUCCI, Gabrio;TAMPUCCI, Silvia~ 33:IT ~31:102019000003247 ~32:06/03/2019

2021/07498 ~ Complete ~54:COMPOSITE WEAR COMPONENT ~71:MAGOTTEAUX INTERNATIONAL S.A., Rue Adolphe Dumont, 4051, Vaux-sous-Chèvremont, Belgium ~72: BURHAN TAS;FRANÇOIS LEPOINT;STÉPHANE DESILES~ 33:EP ~31:20166110.5 ~32:27/03/2020

2021/07490 ~ Complete ~54:ESTER SUBSTITUTED ION CHANNEL BLOCKERS AND METHODS FOR USE
~71:NOCION THERAPEUTICS, INC., 100 Beaver Street, Suite 308, United States of America ~72: COLE,
Bridget, McCarthy;ELLIS, James, Lamond~ 33:US ~31:62/816,434 ~32:11/03/2019;33:US ~31:62/816,441
~32:11/03/2019;33:US ~31:62/931,590 ~32:06/11/2019;33:US ~31:62/931,599 ~32:06/11/2019

2021/07493 ~ Complete ~54:HYDROGEN PEROXIDE SOLUTION-PREFILLED SYRINGE HAVING EXCELLENT
HYDROGEN PEROXIDE PRESERVABILITY BY VIRTUE OF SILICONE OIL (OIL COMPOSITION CONTAINING
SAID SILICONE OIL) ~71:KORTUC INC., Shiroyama Trust Tower, 4F, 4-3-1 Toranomom, Minato-ku , Tokyo,
1056004, Japan ~72: SHOGO YAMASHITA~ 33:JP ~31:2019-068797 ~32:29/03/2019;33:JP ~31:2019-078110
~32:16/04/2019;33:JP ~31:2019-107223 ~32:07/06/2019;33:JP ~31:2019-107227 ~32:07/06/2019

2021/07483 ~ Complete ~54:SMALL MOLECULE DEGRADERS OF STAT3 ~71:The Regents of the University of
Michigan, Office of Technology Transfer, 1600 Huron Parkway, 2nd Floor, ANN ARBOR 48109-2590, MI, USA,
United States of America ~72: BAI, Longchuan;MCEACHERN, Donna;STUCKEY, Jeanne;WANG,
Shaomeng;XU, Renqi;YANG, Chao-Yie;ZHOU, Haibin~ 33:US ~31:62/823,949 ~32:26/03/2019;33:US
~31:62/884,995 ~32:09/08/2019

2021/07485 ~ Complete ~54:AEROSOL PROVISION SYSTEM ~71:Nicoventures Trading Limited, Globe House,
1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: ENGLAND, William~ 33:GB
~31:1903283.8 ~32:11/03/2019

2021/07491 ~ Complete ~54:ANTIBODIES TARGETING C5AR ~71:MORPHOSYS AG, Semmelweisstrasse 7,
82152, Martinsried/Planegg, Germany ~72: BARBARA BACHLER-KONETZKI;JULIA NEUGEBAUER;TANJA
HERRMANN;WINFRIED ELIS~ 33:EP ~31:19162759.5 ~32:14/03/2019

2021/07496 ~ Complete ~54:MARINE OUTBOARD MOTOR WITH PISTON COOLING GALLERY ~71:COX
POWERTRAIN LIMITED, The Cecil Pashley Building, 8 Cecil Pashley Way, Brighton City Airport, Lancing,
Sussex, BN43 5FF, United Kingdom ~72: ARUN DHANAPALA;MICHELE MILANI~ 33:GB ~31:1904779.4
~32:04/04/2019

2021/07497 ~ Complete ~54:PROTECTIVE COVER AND METHOD FOR THE INSTALLATION AND REMOVAL
OF SAID COVER OVER A CROP FIELD ~71:G PLANT AGRONOMIST, S.L., Plaza Constitucion, Num 6, 2C
30840 Alhama de Murcia, Spain ~72: GREGORIO VELASCO GARCIA~ 33:ES ~31:P201930316
~32:05/04/2019

2021/07473 ~ Complete ~54:PHOTONIC STUCTURE-BASED DEVICES AND COMPOSITIONS FOR USE IN
LUMINESCENT IMAGING OF MULTIPLE SITES WITHIN A PIXEL, AND METHODS OF USING THE SAME
~71:ILLUMINA, INC., 5200 Illumina Way, San Diego, California, 92122, United States of America ~72: CHENG
FRANK ZHONG;JURAJ TOPOLANCIK~ 33:US ~31:62/326,568 ~32:22/04/2016

2021/07475 ~ Complete ~54:TRANSPORT CURRENT SATURATED HTS MAGNETS ~71:TOKAMAK ENERGY
LTD, 173 Brook Drive, Milton, Abingdon, United Kingdom ~72: BATEMAN, Rod;BRITTLES, Greg;SLADE,
Robert~ 33:GB ~31:1902995.8 ~32:06/03/2019;33:GB ~31:1910268.0 ~32:18/07/2019

2021/07477 ~ Complete ~54:DOSING REGIMENS OF BISPECIFIC CD123 X CD3 DIABODIES IN THE
TREATMENT OF HEMATOLOGIC MALIGNANCIES ~71:MACROGENICS, INC., 9704 Medical Center Drive,
United States of America ~72: Ian LENT;Jan Kenneth DAVIDSON;Jon Marc WIGGINTON;Krishnan
SAMPATHKUMAR;Ralph Froman ALDERSON;Ross LA MOTTE-MOHS~ 33:US ~31:62/831,969
~32:10/04/2019;33:US ~31:62/831,979 ~32:10/04/2019;33:US ~31:62/929,381 ~32:01/11/2019;33:US
~31:62/929,401 ~32:01/11/2019;33:US ~31:63/001,388 ~32:29/03/2020

2021/07481 ~ Complete ~54:SMOKING ARTICLE ~71:British American Tobacco (Investments) Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: BRANTON, Peter James;DAVIES, Ianto;DUBEY, Umesh~ 33:GB ~31:1904890.9 ~32:05/04/2019

- APPLIED ON 2021/10/06 -

2021/07508 ~ Provisional ~54:BIOMARKERS FOR DIAGNOSING TUBERCULOSIS ~71:STELLENBOSCH UNIVERSITY, Admin B, Victoria Street, South Africa ~72: CHEGOU, Novel Njweipi;MANYELO, Masilo Charles;SOLOMONS, Regan Shane;WALZL, Gerhard~

2021/07510 ~ 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;33:WO ~31:PCT/US2019/050237 ~32:28/02/2019

2021/07521 ~ Complete ~54:PROCESS FOR THE PREPARATION OF LOW MOLECULAR WEIGHT AROMATIC COMPOUNDS SUCH AS BENZENE, TOLUENE, AND XYLENES (BTX) FROM PLASTICS ~71:BIOBTX B.V., Zernikelaan 17, Netherlands ~72: HEERES, André;KRUIZE-MUIZEBELT, Inouk;SCHENK, Niels Jan~ 33:US ~31:62/826,815 ~32:29/03/2019;33:EP ~31:19176932.2 ~32:28/05/2019

2021/07522 ~ Complete ~54:INTEGRIN ALPHA10 AND AGGRESSIVE CANCER FORMS ~71:XINTELA AB, Medicon Village, Sweden ~72: CHMIELARSKA MASOUMI, Katarzyna;HUANG, Xiaoli;LUNDGREN ÅKERLUND, Evy;THORÉN, Matilda~ 33:EP ~31:19169233.4 ~32:15/04/2019

2021/07523 ~ Complete ~54:COLLOIDAL SILVER-BASED COMPOSITIONS AND METHODS OF USE THEREOF FOR PREVENTING AND CONTROLLING PLANT DISEASES ~71:ClearLeaf Inc., c/o Corporation Service Company, 251 Little Falls Dr., WILMINGTON 19808, DE, USA, United States of America ~72: BUCHERT, Agustin;PRATT, Lawrence;WISCOVITCH, Robin~

2021/07528 ~ Complete ~54:CONNECTING DEVICE ~71:Gripple Limited, The Old West Gun Works, Savile Street East, SHEFFIELD S4 7UQ, SOUTH YORKSHIRE, UNITED KINGDOM, United Kingdom ~72: GIEMZA, Lee~ 33:GB ~31:1906663.8 ~32:11/05/2019;33:GB ~31:1915523.3 ~32:25/10/2019;33:GB ~31:2006024.0 ~32:24/04/2020

2021/07509 ~ Complete ~54:PARTIALLY-INSULATED HTS COILS ~71:TOKAMAK ENERGY LTD, 173 Brook Drive, Milton, Abingdon, United Kingdom ~72: BATEMAN, Rod;BRITTLES, Greg;DOWN, Alun;KRUIP, Marcel;RUIZ DE VILLA VALDÉS, Enrique;SLADE, Robert;VAN NUGTEREN, Bas~ 33:GB ~31:1801621.2 ~32:01/02/2018;33:GB ~31:1812119.4 ~32:25/07/2018;33:GB ~31:1818817.7 ~32:19/11/2018

2021/07530 ~ Complete ~54:ELECTRONIC AEROSOL PROVISION DEVICE ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: FRASER, Rory;QIN, Hanting;STROPHAIR, Oriol~ 33:GB ~31:1905425.3 ~32:17/04/2019

2021/07531 ~ Complete ~54:METHOD OF TREATING AND PREVENTING BONE AND JOINT INFECTIONS ~71:ContraFect Corporation, 28 Wells Avenue, 3rd Floor, YONKERS 10701, NY, USA, United States of America ~72: SCHUCH, Raymond~ 33:US ~31:62/832,754 ~32:11/04/2019;33:US ~31:62/849,672 ~32:17/05/2019;33:US ~31:62/938,812 ~32:21/11/2019;33:US ~31:62/964,755 ~32:23/01/2020

2021/07519 ~ Complete ~54:PLANTERS FOR PLANTING SEEDS IN FIELDS, AND RELATED METHODS OF PLANTING ~71:MONSANTO TECHNOLOGY LLC, 800 North Lindbergh Blvd, St Louis, United States of America

~72: CORELLI, Christopher, Louis;REITZ, Timothy, Edward;THIELEN, Andrew, D.;WEYHRICH, Roger, A.;WOLFERSBERGER, Charles~ 33:US ~31:62/835,334 ~32:17/04/2019

2021/07507 ~ Provisional ~54:ALARM DEVICE FOR DETECTING INTERFERENCE ~71:David Green, 84 Clavadel River Lodge, Minnaar Street, South Africa;Heinrich Dry, 24 Geelhout Laan, Dal Fouche, South Africa ~72: Heinrich Dry~

2021/07529 ~ Complete ~54:GLP-1R AGONISTS AND USES THEREOF ~71:Qilu Regor Therapeutics Inc., Building 10, No. 1206, Zhangjiang Road, SHANGHAI 201210, CHINA (P.R.C.), People's Republic of China ~72: GUO, Wei;ZHONG, Wenge~ 33:IB ~31:2019/082381 ~32:12/04/2019

2021/07503 ~ Provisional ~54:AN APPARATUS FOR A RESERVATORY HOLDING PALPABLE SUBSTANCES ~71:Louis Jacobs, 23 Estantia, Woodlands Drive, South Africa ~72: Louis Jacobs~

2021/07517 ~ Complete ~54:METHOD AND APPARATUS FOR THE MANUFACTURING OF NON-ENERGENT BIOCOAL WITH THERMAL TREATMENT ~71:CARBOFEX OY, Tehdaskartanonkatu 25, Finland ~72: Sampo TUKIAINEN~ 33:FI ~31:20195284 ~32:08/04/2019

2021/07518 ~ Complete ~54:DOUBLE-STRANDED NUCLEIC ACID INHIBITOR MOLECULES WITH SHORTENED SENSE STRANDS ~71:DICERNA PHARMACEUTICALS, INC, 75 Hayden Avenue, Lexington, United States of America ~72: BROWN, Bob, Dale;NAZEF, Naim;WANG, Weimin~ 33:US ~31:62/842,908 ~32:03/05/2019

2021/07506 ~ Provisional ~54:TOW BALL MASTER FLANGE ADAPTER ~71:Leon Harmsen, 18 Trevor Street, South Africa ~72: Leon Harmsen~ 33:ZA ~31:A ~32:05/10/2021

2021/07511 ~ Complete ~54:IN VITRO-IN VIVO EVALUATION OF FENOFIBRATE LOADED SOLID DISPERSIONS TABLETS BY MICRO OVEN IRRADIATION METHOD ~71:Dr. Shubhrajit Mantry, Associate Professor, HOD, Department of Pharmaceutics, Sharadchandra Pawar College of Pharmacy, Dumburwadi, Khamundi, Pune, Maharashtra, 410504, India;Dr. Srikanth, Assistant Professor, Department of Pharmaceutics, V.L.College of Pharmacy, Raichur, Karnataka, 584103, India;Dr. Y. Anand Kumar, Professor and Head, Department of Pharmaceutics, V.L. College of Pharmacy, Raichur, Karnataka, 584101, India;Mr. Govind Reddy.G, Assistant Professor, Department of Pharmaceutics, T.V.M College of Pharmacy, Ballari, Karnataka, 583104, India;Mr. M R Shivanand, Assistant Professor, Department of Pharmaceutical Chemistry, N E T Pharmacy college, Raichur, Karnataka, 584103, India;Mr. Prashant Chitralu, Department of Pharmaceutics, V.L. College of Pharmacy, Raichur, Karnataka, 584103, India;Ms. K.P. Saraswathi, Department of Pharmaceutics, V.L. College of Pharmacy, Raichur, Karnataka, 584103, India ~72: Dr. Shubhrajit Mantry;Dr. Srikanth;Dr. Y. Anand Kumar;Mr. Govind Reddy.G;Mr. M R Shivanand;Mr. Prashant Chitralu;Ms. K.P. Saraswathi~

2021/07520 ~ Complete ~54:METHOD FOR PRODUCING CARBON-BASED PRODUCTS FROM SECONDARY RAW MATERIALS CONTAINING PH REGULATORS ~71:BLUCON BIOTECH GMBH, Nattermannallee 1, 50829, Köln, Germany ~72: KRÄMER, Marco;SVETLICHNY, Vitaly~ 33:DE ~31:10 2019 106 761.8 ~32:18/03/2019

2021/07525 ~ Complete ~54:HIGH DEFINITION AND EXTENDED DEPTH OF FIELD INTRAOCULAR LENS ~71:Z Optics, Inc., 1022 Briarcrest Lane, COOKEVILLE 38501, TN, USA, United States of America ~72: SARVER, Edwin J.;SIMMS, James J.~ 33:US ~31:16/380,622 ~32:10/04/2019

2021/07524 ~ Complete ~54:PYRIDAZINONES AND METHODS OF USE THEREOF ~71:Goldfinch Bio, Inc., 215 First Street, CAMBRIDGE 02142, MA, USA, United States of America ~72: BROXSON, Michael;COEFFET-LE GAL, Marie-Francoise Yveline;DANIELS, Matthew H.;HARMANGE, Jean-Christophe P.;LEDEBOER, Mark

W.;MUNDEL, Peter H.;REILLY, John Francis;WALSH, Liron;WESTERLING-BUI, Amy Kieu Duyen;YU, Maolin~
33:US ~31:62/821,178 ~32:20/03/2019

2021/07527 ~ Complete ~54:METHOD AND APPARATUS FOR INTRA SMOOTHING ~71:Huawei Technologies Co., Ltd., Huawei Administration Building, Bantian, Longgang District, SHENZHEN 518129, GUANGDONG, CHINA (P.R.C.), People's Republic of China ~72: CHEN, Jianle;FILIPPOV, Alexey Konstantinovich;RUFITSKIY, Vasily Alexeevich~ 33:US ~31:62/825,793 ~32:28/03/2019

2021/07534 ~ Complete ~54:STAGED FLUID CATALYTIC CRACKING PROCESSES INCORPORATING A SOLIDS SEPARATION DEVICE FOR UPGRADING NAPHTHA RANGE MATERIAL ~71:LUMMUS TECHNOLOGY LLC, 1515 Broad Street, United States of America ~72: CHEN, Liang;LOEZOS, Peter;MARRI, Rama Rao;TOMSULA, Bryan~ 33:US ~31:62/828,836 ~32:03/04/2019

2021/07535 ~ Complete ~54:BICYCLIC HETEROARYL DERIVATIVES AS ECTONUCLEOTIDE PYROPHOSPHATASE PHOSPHODIESTERASE 1 INHIBITORS ~71:RIBOSCIENCE LLC, 3901 Laguna Avenue, United States of America ~72: HAWLEY, Ronald;KLUMPP, Klaus~ 33:US ~31:62/833,455 ~32:12/04/2019;33:US ~31:62/881,111 ~32:31/07/2019

2021/07513 ~ Complete ~54:COMPOUNDS AND COMPOSITIONS COMPRISING THE SAME FOR TREATING HYPERTENSION OR HEART FAILURE ~71:CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, 3 RUE MICHEL ANGE, 75016 PARIS, FRANCE, France;COLLEGE DE FRANCE, 11, PLACE MARCELIN BERTHELOT, 75005 PARIS, FRANCE, France;INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE, 101 RUE DE TOLBIAC, 75013 PARIS, FRANCE, France;QUANTUM GENOMICS, 33, RUE MARBEUF, 75008 PARIS, FRANCE, France ~72: BALAVOINE, Fabrice;BOITARD, Solène, E.;COMPERE, Delphine;KECK, Mathilde;LLORENS-CORTES, Catherine;MARC, Yannick~ 33:EP ~31:19305286.7 ~32:11/03/2019

2021/07533 ~ Complete ~54:COMBINATIONS OF TRANSCRIPTION INHIBITORS AND IMMUNE CHECKPOINT INHIBITORS FOR TREATMENT OF DISEASE ~71:Board of Regents, The University of Texas System, 210 West 7th St., AUSTIN 78701, TX, USA, United States of America ~72: Al, Midan;CURRAN, Michael;PRIEBE, Waldemar;ZIELINSKI, Rafal~ 33:US ~31:62/828,175 ~32:02/04/2019

2021/07515 ~ Complete ~54:LIQUID COMPOSITION COMPRISING ANTIBODY OF HUMAN INTERLEUKIN-4 RECEPTOR ALPHA ~71:SUZHOU CONNECT BIOPHARMACEUTICALS, LTD., 3RD FLOOR, EAST R&D BUILDING, SCIENCE & TECHNOLOGY PARK, NO. 6 BEIJING WEST ROAD, ECONOMIC DEVELOPMENT AREA TAICANG CITY, JIANGSU 215400, CHINA, People's Republic of China ~72: JIANG, Jie;PAN, Wubin;YANG, Xin;ZHANG, Limin;ZHENG, Wei~ 33:CN ~31:201910187179.9 ~32:13/03/2019

2021/07526 ~ Complete ~54:NOVEL MOLECULES FOR THERAPY AND DIAGNOSIS ~71:AC Immune SA, EPFL Innovation Park, Building B, LAUSANNE 1015, SWITZERLAND, Switzerland ~72: OLLIER, Romain Christian;STàHR, Jan Peter Henning;TSIKA, Elpida;WARNER, John~ 33:EP ~31:19170207.5 ~32:18/04/2019;33:EP ~31:19207105.8 ~32:05/11/2019;33:EP ~31:20165055.3 ~32:23/03/2020

2021/07532 ~ Complete ~54:ELECTRONIC AEROSOL PROVISION SYSTEM ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: KABIRAT, Junior~ 33:GB ~31:1906279.3 ~32:03/05/2019

2021/07504 ~ Provisional ~54:A LOADING ARRANGEMENT ~71:FOURIE, Johannes, Jacobus, 66 BERRYHEAD LANE, CORNWALL HILL, 0178, SOUTH AFRICA, South Africa ~72: FOURIE, Johannes, Jacobus~

2021/07505 ~ Provisional ~54:BAG JACKET ~71:Onke Aphelele Majiza, 2 Theos Chea Prinsberg Avenue, South Africa ~72: Onke Aphelele Majiza~ 33:ZA ~31:ZA20212208195 ~32:05/10/2021

2021/07539 ~ Complete ~54:MODULATORS OF IRF4 EXPRESSION ~71:IONIS PHARMACEUTICALS, INC., 2855 Gazelle Court, Carlsbad, United States of America ~72: BUI, Huynh-Hoa;FREIER, Susan, M.;KIM, Youngsoo;MACLEOD, Robert, A.;ZHOU, Tianyuan~ 33:US ~31:62/637,981 ~32:02/03/2018

2021/07512 ~ Complete ~54:ANTIMICROBIAL AGENT ~71:THE UNIVERSITY OF SHEFFIELD, Firth Court, Western Bank, United Kingdom ~72: SMITTEN, Kirsty Laura;THOMAS, James Anthony~ 33:GB ~31:1904796.8 ~32:04/04/2019

2021/07516 ~ Complete ~54:LOGGING MOBILE PHONE COMMUNICATIONS ~71:Brett Steingo, 18 Fairways, Montrose Road, Barbeque Downs, South Africa ~72: Brett Steingo~ 33:US ~31:62/859,805 ~32:11/06/2019

2021/07514 ~ Complete ~54:KITE CONTROL SYSTEM ~71:OCEANERGY AG, ALBRECHTSTRASSE 22, BERLIN D-10117, GERMANY, Germany ~72: REINERS, Wolfram, Johannes, Bernd~ 33:GB ~31:1903146.7 ~32:08/03/2019

- APPLIED ON 2021/10/07 -

2021/07536 ~ Provisional ~54:A GUN SIGHTING AID ~71:KROEGER, Vernon, 8 PAGODA CRESCENT, FOURWAYS GARDENS, 2168, SOUTH AFRICA, South Africa ~72: KROEGER, Vernon~

2021/07558 ~ Complete ~54:ADAPTABLE REAL-TIME COMMUNICATIONS PLUGIN FOR VIRTUAL DESKTOP INFRASTRUCTURE SOLUTIONS ~71:MICROSOFT TECHNOLOGY LICENSING, LLC, One Microsoft Way, Redmond, Washington, 98052-6399, United States of America ~72: MATTHEW C HOWARD;NEIL R HINNANT;RAFAEL VINCENT PRIETO VERTIDO~ 33:US ~31:16/414,160 ~32:16/05/2019

2021/07566 ~ Complete ~54:HEAT SINK FOR LIGHT FIXTURE FOR INDOOR GROW APPLICATION ~71:HGCI, INC., 3993 Howard Hughes Parkway, United States of America ~72: CAI, Dengke~ 33:US ~31:17/098,321 ~32:13/11/2020;33:US ~31:63/118,982 ~32:30/11/2020

2021/07537 ~ Provisional ~54:MARKETING ARRANGEMENT ~71:Angelo Pedro SANTA MARIA, 52 Point Street, South Africa ~72: Angelo Pedro SANTA MARIA~

2021/07548 ~ Complete ~54:NON-HUMAN ANIMALS HAVING A LIMITED LAMBDA LIGHT CHAIN REPERTOIRE EXPRESSED FROM THE KAPPA LOCUS AND USES THEREOF ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: BABB, Robert;GUO, Chunguang;HANSEN, Johanna;MACDONALD, Lynn;MCWHIRTER, John;MURPHY, Andrew, J.~ 33:US ~31:62/857,712 ~32:05/06/2019

2021/07549 ~ Complete ~54:LID FOR CONTAINERS, PARTICULARLY BEVERAGE CONTAINERS ~71:REEND SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ, ul. Dworcowa 152, Krzemieniewo, Poland ~72: LEWANDOWSKI, Dariusz;SOBECKI, Roman~ 33:PL ~31:P.429610 ~32:11/04/2019

2021/07557 ~ Complete ~54:HIGH-DENSITY OPTICAL DATA RECORDING ~71:MICROSOFT TECHNOLOGY LICENSING, LLC, One Microsoft Way, Redmond, Washington, 98052-6399, United States of America ~72: AUSTIN NICHOLAS DONNELLY;HUGH DAVID PAUL WILLIAMS;PATRICK NEIL ANDERSON;RICHARD JOHN BLACK;ROKAS DREVINSKAS~ 33:US ~31:16/408,374 ~32:09/05/2019

2021/07551 ~ Complete ~54:INFORMATION COMMUNICATION METHOD, AND SYSTEM AND DEVICES THEREOF ~71:Orange, 111, quai du Président Roosevelt, ISSY-LES-MOULINEAUX 92130, FRANCE, France ~72: GRAVES, Benoït;VISOZ, Raphaël~ 33:FR ~31:FR1902448 ~32:11/03/2019

2021/07552 ~ Complete ~54:CANNABINOIDS COMPOSITIONS WITH POLYUNSATURATED FATTY ACID MONOGLYCERIDES, METHODS AND USES THEREOF ~71:SCF Pharma Inc., 235 rte du Fleuve O., SAINTE-LUCE G0K 1P0, QUÉBEC, CANADA, Canada ~72: FORTIN, Samuel C.~ 33:US ~31:16/517,607 ~32:21/07/2019;33:US ~31:62/886,400 ~32:14/08/2019;33:US ~31:16/910,055 ~32:23/06/2020

2021/07559 ~ Complete ~54:MITIGATION OF RANSOMWARE IN INTEGRATED, ISOLATED APPLICATIONS ~71:MICROSOFT TECHNOLOGY LICENSING, LLC, One Microsoft Way, Redmond, Washington, 98052-6399, United States of America ~72: ANASTASIYA TARNOUSKAYA;JONATHAN DAVID SCHWARTZ~ 33:US ~31:16/415,690 ~32:17/05/2019

2021/07564 ~ Complete ~54:CHANNEL SOUNDING FOR DISTRIBUTED TRANSMISSION ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), 164 83, Sweden ~72: LOPEZ, Miguel;SUNDMAN, Dennis;WILHELMSSON, Leif~

2021/07538 ~ Provisional ~54:BATTERY CONNECTOR ~71:CAMERON, Daniel James, 797 Wapadrand Street, Wapadrand, South Africa;COETZEE, Renier, Plot 45 A, Elandsfontein, Eco Park, South Africa ~72: COETZEE, Bennie;COETZEE, Renier~

2021/07543 ~ Complete ~54:COMPOUNDS WITH ANTI-TUMOR ACTIVITY AGAINST CANCER CELLS BEARING EGFR OR HER2 EXON 20 INSERTIONS ~71:BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM, 210 West 7th Street, United States of America ~72: HEYMACH, John V.;NILSSON, Monique;ROBICHAUX, Jacquelyne~ 33:US ~31:62/826,843 ~32:29/03/2019

2021/07550 ~ Complete ~54:SET OF LINING SHEETS MADE FROM DISCARDED RADIAL TIRES AND METHOD FOR MANUFACTURING LINING SHEETS MADE FROM DISCARDED RADIAL TIRES ~71:Rubberbras Ltda, Rua Cromita, 121 - Distrito Industrial, MUNICÍPIO DE ITABIRA 35903-053, MG, BRAZIL, Brazil ~72: RIBEIRO, Lucas~

2021/07544 ~ Complete ~54:PDE9 INHIBITORS FOR TREATING SICKLE CELL DISEASE ~71:IMARA INC., 116 Huntington Avenue, Suite 600, Boston, United States of America ~72: PETROSSIAN, Vanik;SVENSTRUP, Niels;TISI, David;WORTHINGTON, Jeffrey~ 33:US ~31:62/829,784 ~32:05/04/2019

2021/07540 ~ Complete ~54:OPERATING MECHANISM FOR OPERATING AT LEAST ONE CONTACT ~71:Eaton Intelligent Power Limited, Eaton House, 30 Pembroke Road, DUBLIN 4, IRELAND, Ireland ~72: POSTMUS, Albert~ 33:GB ~31:2017721.8 ~32:10/11/2020

2021/07547 ~ Complete ~54:PROVIDING AN INTERLOCKING RECESS IN A TUBULAR AXLE BODY OF A VEHICLE AXLE ~71:VDL WEWELER B.V., 10, Ecofactorij, WC APELDOORN, Netherlands ~72: AALDERINK, Derk, Geert;BRUINJA, Marten, Frank, Ciarán;EVERTS, Geert;HENDRIKS, Michel;SCHRIER, Tom~ 33:NL ~31:2022985 ~32:19/04/2019

2021/07542 ~ Complete ~54:PERSONAL ATTENDANCE MONITORING SYSTEM ~71:TAR, Azgar, 12 Karagola Place, Overport, South Africa ~72: TAR, Azgar~ 33:ZA ~31:2020/06274 ~32:09/10/2020

2021/07545 ~ Complete ~54:SOLID FORMS OF AN ORALLY-DELIVERED BETA-LACTAMASE INHIBITOR AND USES THEREOF ~71:VENATORX PHARMACEUTICALS, INC., 30 Spring Mill Drive, United States of America ~72: BOYD, Steven A.;BURNS, Christopher J.;CONDON, Stephen M.;DENG, Yijun;MESAROS, Eugen F.;ROSEN, Lawrence;SIMPSON, Robert;TROUT, Robert E. Lee;ZULLI, Allison L.~ 33:US ~31:62/828,349 ~32:02/04/2019

2021/07560 ~ Complete ~54:IMAGE-BASED LOCALIZATION ~71:MICROSOFT TECHNOLOGY LICENSING, LLC, One Microsoft Way, Redmond, Washington, 98052-6399, United States of America ~72: JOHANNES LUTZ SCHONBERGER;MARC ANDRE LEON POLLEFEYS~ 33:US ~31:16/418,670 ~32:21/05/2019

2021/07554 ~ Complete ~54:PROMOTER SEQUENCE AND RELATED PRODUCTS AND USES THEREOF ~71:Oregon Health & Science University, 690 S.W. Bancroft Street, PORTLAND 97239, OR, USA, United States of America ~72: CHAI, Sunghee;GROMPE, Markus~ 33:US ~31:62/838,063 ~32:24/04/2019

2021/07555 ~ Complete ~54:MOSQUITO CONTROL ~71:Brandenburg Innovation Limited, 29 Navigation Drive, Hurst Business Park, BRIERLEY HILL DY5 1UT, WEST MIDLANDS, UNITED KINGDOM, United Kingdom ~72: RAO, Ambika~ 33:GB ~31:1903658.1 ~32:18/03/2019

2021/07546 ~ Complete ~54:FERMENTED BEVERAGE AND METHOD OF PRODUCING A FERMENTED BEVERAGE ~71:HEINEKEN SUPPLY CHAIN B.V., Tweede Weteringplantsoen 21, Netherlands ~72: TESSIOT, Sabine Charlette Jacqueline~ 33:EP ~31:19167431.6 ~32:04/04/2019

2021/07541 ~ Complete ~54:PHASING CORRECTION ~71:ILLUMINA, INC., 5200 Illumina Way, San Diego, California, 92122, United States of America ~72: PAUL BELITZ;ROBERT LANGLOIS~ 33:US ~31:62/443,294 ~32:06/01/2017

2021/07561 ~ Complete ~54:ACTIVATION MANAGEMENT FOR MULTIPLE VOICE ASSISTANTS ~71:MICROSOFT TECHNOLOGY LICENSING, LLC, One Microsoft Way, Redmond, Washington, 98052-6399, United States of America ~72: ADINA MAGDALENA TRUFINESCU;ALICE JANE BERNHEIM BRUSH;KEVIN J ENDRES;LISA J STIFELMAN~ 33:US ~31:16/419,503 ~32:22/05/2019

2021/07553 ~ Complete ~54:COLLAGEN PEPTIDE-BASED MEDICAMENT COMPOSITIONS AND DEVICES AND METHODS OF PRODUCTION AND USE THEREOF ~71:Sustain Holdings, LLC, 411 SE Osceola St., Suite 203, STUART 34994, FL, USA, United States of America ~72: BARATTA, Robert;CALKINS, David J.;DELOREY, Shawn;SCHLUMPF, Richard E.~ 33:US ~31:62/836,934 ~32:22/04/2019;33:US ~31:62/933,685 ~32:11/11/2019;33:US ~31:62/959,282 ~32:10/01/2020

2021/07556 ~ Complete ~54:3D PARTICLE IMAGING IN PHARMACEUTICAL CONTAINERS ~71:Amgen Inc., One Amgen Center Drive, THOUSAND OAKS 91320-1799, CA, USA, United States of America ~72: FRADKIN, Dmitry;MILNE, Graham F.;PEARSON, Thomas Clark~ 33:US ~31:62/856,267 ~32:03/06/2019

2021/07563 ~ Complete ~54:AAV VECTOR-MEDIATED DELETION OF LARGE MUTATIONAL HOTSPOT FOR TREATMENT OF DUCHENNE MUSCULAR DYSTROPHY ~71:DUKE UNIVERSITY, 2812 Erwin Road Suite 306, Durham, North Carolina, 27705, United States of America ~72: CHARLES A GERSBACH;JACQUELINE N ROBINSON-HAMM;KAREN BULAKLAK~ 33:US ~31:62/833,760 ~32:14/04/2019

2021/07562 ~ Complete ~54:TECHNIQUES TO SET FOCUS IN CAMERA IN A MIXED-REALITY ENVIRONMENT WITH HAND GESTURE INTERACTION ~71:MICROSOFT TECHNOLOGY LICENSING, LLC, One Microsoft Way, Redmond, Washington, 98052-6399, United States of America ~72: MARIA CHENG LEI;VIKRAMADITYA DANGI;VISHAL JAIN~ 33:US ~31:16/427,398 ~32:31/05/2019

2021/07565 ~ Complete ~54:RV RETROFIT SYSTEM ~71:STORYTELLER OVERLAND, LLC, 109 West Drive, United States of America ~72: DONALDSON, Adam;FREYERMUTH, Dan;HUNTER, Jeffrey;ISBELL, Mark;LANG, Brent;SLATER, Dave~ 33:US ~31:62/816,571 ~32:11/03/2019;33:US ~31:16/814,270 ~32:10/03/2020

- APPLIED ON 2021/10/08 -

2021/07568 ~ Provisional ~54:STOMA APPLIANCE ADHESIVE ~71:Abraham Josua LE ROUX, 15 Edgar Street, South Africa ~72: Abraham Josua LE ROUX~

2021/07573 ~ Complete ~54:SOLAR STREET LAMP BASED ON FLYWHEEL BATTERY ~71:Shandong University of Science and Technology, Shandong University of Science and Technology, No. 579 Qianwangang Road, Xin'an street, Huangdao District, Qingdao City, Shandong Province, People's Republic of China ~72: Jin Zancheng;Wan Yuchu;Zhu Youfeng~

2021/07587 ~ Complete ~54:AQUEOUS PHARMACEUTICAL COMPOSITIONS OF AN ANTI-IL17A ANTIBODY AND USE THEREOF ~71:JOINT STOCK COMPANY "BIOCAD", Liter A. Svyazi st., 34, Strelina, Petrodvortsovy district, Russian Federation ~72: ARTEMEVA, Antonina Vasilevna;CHERNIAEVA, Ekaterina Valerevna;EREMEEVA, Anna Viktorovna;IAKOVLEV, Aleksandr Olegovich;IVANOV, Roman Alekseevich;LOMKOVA, Ekaterina Aleksandrovna;MOROZOV, Dmitry Valentinovich;RYAKHOVSKAYA, Anastasiya Mikhajlovna;SHITIKOVA, Viktoriia Olegovna~ 33:RU ~31:2019109641 ~32:02/04/2019

2021/07588 ~ Complete ~54:A METHOD OF CONTROLLING CITRUS GREENING DISEASE ~71:UPL Limited, UPL House, 610 B/2 Bandra Village, Off Western Express Highway, Bandra (East), MUMBAI 400 051, MAHARASHTRA, INDIA, India ~72: FABRI, Carlos Eduardo~ 33:IN ~31:201921009420 ~32:11/03/2019

2021/07593 ~ Complete ~54:CONVERTING NON-BIODEGRADABLE POLYMERIC GRANULES AND COMPONENTS TO BIODEGRADABLE BY SURFACE COATING ~71:CHATURVEDI, Ashok, 305, III Floor, Bhanot Corner, Pamposh Enclave, GK-1, NEW DELHI 110048, INDIA, India ~72: CHATURVEDI, Ashok~ 33:IN ~31:201911009252 ~32:09/03/2019

2021/07595 ~ Complete ~54:METAL FOAM FOR WATER PURIFICATION ~71:CELLMOBILITY, INC., 808 Gilman Street, Berkeley, United States of America ~72: CHOE, Heeman;PARK, Hyeji;PARK, Junhyeong;RHEE, Kendrick Hanjun~ 33:US ~31:62/851,002 ~32:21/05/2019

2021/07805 ~ Complete ~54:FLOOR PANEL AND METHOD FOR MANUFACTURING THE SAME ~71:FLOORING INDUSTRIES LIMITED, SARL, 10b, Rue des Mirovingiens (ZI Bourmicht), 8070 Bertrange, Luxembourg ~72: BENNY SCHACHT;JAN DE RICK~ 33:BE ~31:2019/5064 ~32:04/02/2019

2021/07569 ~ Complete ~54:METHOD FOR PREVENTING SCALE INSECTS ~71:Chengdu Longquanyi District Bureau of Agriculture and Rural Development, No. 269 Yong'an Road, Longquanyi District, Chengdu City, Sichuan Province, People's Republic of China;Institute of Horticulture, Sichuan Academy of Agricultural Sciences, No.20 Jingjusi Road, Chengdu City, Sichuan Province, People's Republic of China ~72: Chen Dong;Chen Xiaolan;Jiang Guoliang;Li Jing;Liu Jia;Song Haiyan;Sun Shuxia;Tu Meiyang;Wang Shiqiang;Zhang Guowei;Zhi Yurong~

2021/07582 ~ Complete ~54:SHARK RESISTANT COMPOSITE FABRIC ~71:SHARK STOP AUSTRALIA PTY LTD, 213 BRISBANE STREET IPSWICH, QLD 4305, AUSTRALIA, Australia ~72: BURFORD, Haydon~ 33:AU ~31:2019901237 ~32:10/04/2019

2021/07591 ~ Complete ~54:CRYSTAL FORM S4 OF THE PLK4 INHIBITOR (1R,2S)-(E)-2-(3-(4-((CIS-2,6-DIMETHYLMORPHOLINO)METHYL)STYRYL)-1 H-IMIDAZOL-6- YL)-5'-METHOXYSPIRO[CYCLOPROPANE-1,3'-INDOLIN]-2'-ONE FUMARATE ~71:University Health Network, 190 Elizabeth Street, R. Fraser Elliott Building - Room 1S-417, TORONTO M5G 2C4, ONTARIO, CANADA, Canada ~72: BRAY, Mark Robert;LI, Sze-wan~ 33:US ~31:62/837,858 ~32:24/04/2019

2021/07598 ~ Complete ~54:MINIMALLY INVASIVE CELL TRANSPLANT PROCEDURE TO INDUCE THE DEVELOPMENT OF IN VIVO ORGANOGENESIS ~71:UNIVERSITY OF PITTSBURGH - OF THE

COMMONWEALTH SYSTEM OF HIGHER EDUCATION, 1st Floor Gardner Steel Conference Center, 130 Thackeray Avenue, Pittsburgh, Pennsylvania, 15260, United States of America ~72: ERIC LAGASSE;PAULO ARTUR CHAVES FONTES~ 33:US ~31:62/832,492 ~32:11/04/2019

2021/07604 ~ Complete ~54:DECENTRALIZED IDENTITY STORAGE FOR TOBACCO PRODUCTS ~71:RAI STRATEGIC HOLDINGS, INC., 401 North Main Street, Winston-Salem, United States of America ~72: ALLER, Jared;HUBBARD, Sawyer;SUR, Rajesh~ 33:US ~31:62/838,272 ~32:24/04/2019;33:US ~31:16/415,477 ~32:17/05/2019

2021/07589 ~ Complete ~54:MINING VEHICLE ~71:Sandvik Mining and Construction Oy, Pihtisulunkatu 9, TAMPERE 33330, FINLAND, Finland ~72: ERIKSSON, Harri;JUNTUNEN, Raimo;KITULA, Mikko;KOUVO, Mikko;MIKKOLA, Jussi;TEPPO, Jouni;VATANEN, Harri;VERHO, Samuli~ 33:EP ~31:19175913.3 ~32:22/05/2019

2021/07594 ~ Complete ~54:SYSTEMS AND METHODS FOR PRODUCING ACTINIUM-225 ~71:THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, 1111 Franklin Street, 12th Floor, United States of America ~72: BATCHELDER, Jon;BERNSTEIN, Lee;MORRELL, Jonathan T.;VOYLES, Andrew~ 33:US ~31:62/830,687 ~32:08/04/2019

2021/07602 ~ Complete ~54:PROVIDING COMMUNICATION SERVICES USING SETS OF I/O USER DEVICES ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83, Sweden ~72: ÖKVIST, Peter;ARNGREN, Tommy;HANNU, Hans;WÄNSTEDT, Stefan~

2021/07577 ~ Complete ~54:SYSTEM, METHOD, OPERATOR SERVER, AND PROGRAM FOR FINANCIAL DEMAND RESPONSE PROVISION SERVICES ~71:FTS Kabushiki Kaisha, 8-2, Tomigaya 2-chome, Shibuya-ku, TOKYO 1510063, JAPAN, Japan ~72: MATSUDA, Yutaro~ 33:JP ~31:2016-254858 ~32:28/12/2016

2021/07578 ~ Complete ~54:NOVEL STICK PROOF SEMI GLASSY FORMULATION LABELS FOR ENHANCING MEDICATION COMPLIANCE ~71:Dr A Mohathasim Billah, Principal, Sri Indu Institute of Pharmacy , Hyderabad , Telangana, 501510, India;Dr Goje Arjun, Associate Professor, Teegala Ram Reddy college of Pharmacy, Hyderabad , Telangana, 500001, India;Dr Manish Kumar Thimmaraju, Professor, Department of Pharmaceutical Analysis, Balaji Institute of Pharmaceutical Sciences, Laknepally, Narsampet, Warangal, Telangana, 506331, India;Dr P. Venkatesan, Associate Professor, Department of Pharmacy, Annamalai University, Annamalai Nagar , Chidambaram, Tamil Nadu , 608002, India;Mr Vijaya Kumar Meher, Assistant Professor , School of Pharmacy, Centurion University of Technology And Management, Odisha , 767001, India ~72: Dr A Mohathasim Billah;Dr Goje Arjun;Dr Manish Kumar Thimmaraju;Dr P. Venkatesan;Mr Vijaya Kumar Meher~

2021/07583 ~ Complete ~54:CYTIDINE DERIVATIVES AND METHODS OF FORMING CYTIDINE DERIVATIVES ~71:AENORASIS COMMERCIAL COMPANY OF PHARMACEUTICAL AND MEDICAL PRODUCTS AND MACHINES SOCIETE ANONYME, Trapezountos 17 & A. Papandreou Avenue, Greece ~72: CHATZIGIANNIS, Christos;SIVOLAPENKO, Gregory;TZAKOS, Andreas~ 33:GR ~31:20190100181 ~32:24/04/2019

2021/07567 ~ Provisional ~54:STOMA APPLIANCE ARRANGEMENT ~71:Abraham Josua LE ROUX, 15 Edgar Street, South Africa;George Stephanus DURAND, 15 Edgar Street, South Africa ~72: Abraham Josua LE ROUX;George Stephanus DURAND~

2021/07572 ~ Complete ~54:QUANTITATIVE IDENTIFICATION METHOD OF TOPSOIL HEAVY METAL CONTAMINATION SOURCES CALCULATED BASED ON ENRICHMENT FACTOR VALUES ~71:LINYI

UNIVERSITY, West Side of North Section of Industrial Avenue, Lanshan District, Linyi City, Shandong Province, 276000, People's Republic of China ~72: JIAO, Wei;LI, Bao~

2021/07580 ~ Complete ~54:FORMULATION OF (E)-2,4,6-TRIMETHOXYSTYRYL-3-
[(CARBOXYMETHYL)AMINO]-4- METHOXYBENZYL SULPHONE WITH ENHANCED STABILITY AND
BIOAVAILABILITY ~71:ONCONOVA THERAPEUTICS, INC., 375 Pheasant Run, Newtown, Pennsylvania,
18940, United States of America ~72: MANOJ MANIAR~ 33:US ~31:62/485,355 ~32:13/04/2017;33:US
~31:15/688,320 ~32:28/08/2017;33:US ~31:PCT/US2017/48890 ~32:28/08/2017

2021/07584 ~ Complete ~54:MODULATORS OF CHROMOSOME 9 OPEN READING FRAME 72 GENE
EXPRESSION AND USES THEREOF ~71:SANGAMO THERAPEUTICS, INC., 7000 Marina Blvd., Brisbane,
California, United States of America ~72: NABHAN, Joseph, F.;PATTAMATTA, Amrutha;SAMIE, Mohammad~
33:US ~31:62/837,523 ~32:23/04/2019;33:US ~31:62/964,844 ~32:23/01/2020

2021/07599 ~ Complete ~54:COMPOSITIONS AND METHODS FOR THE TREATMENT OF CANCER USING A
CDB ENGINEERED T CELL THERAPY ~71:PACT PHARMA, INC., 2 Corporate Drive, South San Francisco,
California, 94080, United States of America ~72: ALEX FRANZUSOFF;BARBARA SENNINO;JOHN
GAGNON;KYLE JACOBY;MICHAEL M DUBREUIL;STEFANIE MANDL-CASHMAN~ 33:US ~31:62/841,748
~32:01/05/2019;33:US ~31:62/841,753 ~32:01/05/2019

2021/07570 ~ Complete ~54:METHOD FOR CULTIVATING POLLUTION-FREE CONFECTIONERY
SUNFLOWER ~71:Deng Tinghe, No.221 Wuyi Road, Laojie Street, Community of Shihezi Academy of
Agricultural Sciences, Xinjiang Uygur Autonomous Region, People's Republic of China;Liu Yantao, No.221 Wuyi
Road, Laojie Street, Community of Shihezi Academy of Agricultural Sciences, Xinjiang Uygur Autonomous
Region, People's Republic of China ~72: Deng Tinghe;Dong Hongye;Duan Wei;Huang Dingcheng;Liu Li;Liu
Shengli;Liu Yantao;Wang Peng~

2021/07575 ~ Complete ~54:USE OF CARDIOTONIC COMPOSITION IN PREPARATION OF MEDICINE FOR
BLOCKING DIABETIC CARDIOMYOPATHY (DCM) THROUGH AUTOPHAGY MECHANISM OF DCM
CARDIOMYOCYTE ~71:Jiangxi Normal University, 99 Ziyang Avenue, Nanchang City, Jiangxi Province, 330000,
People's Republic of China ~72: CHEN, Hongtao;GONG, Zhigang;LI, Lin;SONG, Chunhui;XIE, Zhengxia~ 33:CN
~31:202110499735.3 ~32:08/05/2021

2021/07600 ~ Complete ~54:PANEL AND METHOD FOR MANUFACTURING A PANEL ~71:FLOORING
INDUSTRIES LIMITED, SARL, 10b, rue des Mérovingiens (Z.I. Bourmicht) , Bertrange, 8070, Luxembourg
~72: BENJAMIN CLEMENT;JOSÉ MEIRLAEN;SAM LEDEGEN~ 33:US ~31:62/823,284 ~32:25/03/2019

2021/07590 ~ Complete ~54:DNA-DEPENDENT PROTEIN KINASE INHIBITOR ~71:Dizal (Jiangsu)
Pharmaceutical Co., Ltd., No. 199 Liangjing Road, Zhangjiang Hi-Tech Park, SHANGHAI 201203, CHINA
(P.R.C.), People's Republic of China ~72: QI, Changhe;TSUI, Honchung;YANG, Zhenfan;ZENG,
Qingbei;ZHANG, Xiaolin~ 33:IB ~31:2019/088573 ~32:27/05/2019

2021/07597 ~ Complete ~54:PLATELET MEMBRANE SELF-ASSEMBLY NANOBUBBLE, AND PREPARATION
METHOD AND APPLICATION THEREOF ~71:SOUTHEAST UNIVERSITY, No.2 Southeast University Road,
Jiangning District Nanjing, Jiangsu 211189, People's Republic of China ~72: FANG YANG;MINGXI LI;NING GU~
33:CN ~31:201910260442.2 ~32:01/04/2019

2021/07574 ~ Complete ~54:PREPARATION METHOD OF CATHODE INTERFACE LAYER WITH HIGH AIR
STABILITY ~71:Nanchang Hangkong University, No.696, Fenghe South Avenue, Nanchang City, Jiangxi
Province, 330063, People's Republic of China ~72: Hu Bin;Li Mingjun;Lv Ruizhi;Tong Yongfen;Xie Yu;Xu
Haitao;Xu Zhentian;Zhou Dan~

2021/07581 ~ Complete ~54:ENDOGENOUS PLANT EXPRESSION ENHANCER ~71:MEDICAGO INC., 600 - 1020, ROUTE DE L'EGLISE, QUEBEC, QUEBEC, G1V 3V9, CANADA, Canada;MITSUBISHI TANABE PHARMA CORPORATION, 3-2-1, DOSHO-MACHI, CHUO-KU, OSAKA 541-8505, JAPAN, Japan;NATIONAL UNIVERSITY CORPORATION NARA INSTITUTE OF SCIENCE AND TECHNOLOGY, 8916-5, TAKAYAMA-CHO, IKOMA-SHI, NARA 6300192, JAPAN, Japan ~72: D'AMICO, Marc-Andre;KATO, Ko;LAVOIE, Pierre-Olivier;YAMASAKI, Shotaro~

2021/07603 ~ Complete ~54:NETWORK NODE, VEHICLE TO EVERYTHING APPLICATION ENABLER CLIENT AND METHODS PERFORMED THEREIN ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), 164 83, Sweden ~72: EL ESSAILI, Ali;ZANG, Yunpeng~ 33:US ~31:62/846,773 ~32:13/05/2019

2021/07605 ~ Complete ~54:VALVED VASCULAR PROSTHESIS AND MANUFACTURING METHOD THEREOF ~71:WUHAN YOUNGSEN BIOTECH CO., LTD., Building A04, Phase I, Enterprise Accelerator, Biomedical Park, No. 858, Gaoxin Avenue, East-lake New Technology Development Zone, Wuhan, Hubei, 430000, People's Republic of China ~72: JIAO, Pei;LIU, Sishi;LIU, Yawen;LONG, Xing;OUYANG, Chenxi;YAN, Tuo~ 33:CN ~31:201910210738.3 ~32:20/03/2019

2021/07596 ~ Complete ~54:DEVICE FOR TREATING LIQUIDS BY ELECTROMAGNETISM AND STIRRING ~71:SEDUNA SCT SA, 4, rue du Tir-au-Canon, 1227, Carouge, Switzerland ~72: JEAN-DANIEL VARONE~ 33:CH ~31:00393/19 ~32:26/03/2019

2021/07571 ~ Complete ~54:METHOD, PRODUCT AND APPLICATION OF SURFACE METALLIZATION OF ACTIVATED CARBON FIBER FELT FOR HYDROGEN STORAGE ~71:Shandong University, No.27 Shanda South Road, Jinan City, Shandong Province, People's Republic of China ~72: Cao Weiwei;Qiao Kun;Yu Junwei;Yu Liyuan;Zhu Bo~

2021/07586 ~ Complete ~54:ANTIBACTERIAL AGENTS & METHODS ~71:FOLIUM FOOD SCIENCE LIMITED, Unit DX St Philips Central, Albert Road, United Kingdom ~72: CLUBE, Jasper;COGAN, Tristan;FUCHS, Edward;GRANDJEAN, Christian;KNEUPER, Holger;RICCIO, Alessandro;WOODWARD, Martin~ 33:GB ~31:1906668.7 ~32:12/05/2019

2021/07601 ~ Complete ~54:STAT3 TRANSCRIPTOME FOR DESIGNING MORE POTENT NK CELLS ~71:RESEARCH INSTITUTE AT NATIONWIDE CHILDREN'S HOSPITAL, 700 Children's Drive, W-148, Columbus, Ohio, 43205, United States of America ~72: DEAN ANTHONY LEE;NITIN CHAKRAVARTI~ 33:US ~31:62/815,625 ~32:08/03/2019

2021/07576 ~ Complete ~54:DEEP TRANSFER LEARNING-BASED BINOCULAR VISION MEASUREMENT METHOD OF COAL FLOW OF BELT CONVEYOR ~71:China University of Mining and Technology, No 1, Daxue Road, Xuzhou, Jiangsu, 221116, People's Republic of China ~72: DAI, Wei;GU, Zhen;MA, Lei;WANG, Guoqing;YANG, Chunyu;ZHANG, Xin;ZHOU, Linna~ 33:CN ~31:202011509023.7 ~32:18/12/2020

2021/07579 ~ Complete ~54:PHARMACEUTICAL COMBINATIONS FOR THE TREATMENT OF CANCER ~71:PRESAGE BIOSCIENCES, INC., 530 Fairview Avenue North, Suite 1000, Seattle, Washington, 98109, United States of America ~72: JOYOTI DEY;RICHARD KLINGHOFFER~ 33:US ~31:62/314,356 ~32:28/03/2016

2021/07592 ~ Complete ~54:NOVEL GARDNERELLA ENDOLYSINS AND USES THEREOF ~71:PhagoMed Biopharma GmbH, Leberstraße 20, WIEN 1110, AUSTRIA, Austria ~72: CORSINI, Lorenzo~ 33:EP ~31:19173389.8 ~32:08/05/2019

2021/07585 ~ Complete ~54:DEFLECTOR FOR VEHICLE ~71:DEFLECT LLC, 2900 Oak Street No. 110, Kansas City, Missouri, United States of America ~72: GOLSCH, Kevin, Anthony;HANSEN, Ren;KENNEDY, Wayne;MAYNES, Spencer, Wheatley~ 33:US ~31:62/845/271 ~32:08/05/2019;33:US ~31:16/721,009 ~32:19/12/2019

- APPLIED ON 2021/10/11 -

2021/07611 ~ Complete ~54:TENDON PULL-OUT TEST SYSTEM AND METHOD ~71:Shandong Jianzhu University, No. 1000, Fengming Road, Lingang Development Zone, Licheng District, Jinan City, Shandong Province, 250101, People's Republic of China ~72: HAN, Jianyong;LI, Tiantian;LIU, Dong;REN, Xiexu;WANG, Jun;WU, Wenzhi;XU, Dehao;YOU, Xiaozhuang;ZHANG, Rongzhen;ZHANG, Xuecong~

2021/07614 ~ Complete ~54:A KIND OF MODIFIED BIOCHAR WITH ITS PREPARATION METHOD AND APPLICATION THEREOF ~71:Institute of agricultural environment and sustainable development, Chinese Academy of Agricultural Sciences, 12 Zhongguancun South St., Haidian District, Beijing, People's Republic of China ~72: Lianfang Li;Ting Liang~

2021/07616 ~ Complete ~54:QUALITY CONTROL METHOD OF SHAOYAO-GANCAO-DECOCTION ~71:China MEDICO Corporation, No. 18, Gaofu Road, Binhai Science Park, Binhai High-tech Zone, Tianjin City, People's Republic of China;Institute of Chinese Materia Medica, No.16 Neinan Street, Dongzhimen, Dongcheng District, Beijing City, People's Republic of China ~72: Cao Lijuan;Jiang Hengli;Kang Yajuan;Li Baoguo;Li Gang;Ma Shengjun;Ma Xianghui;Qu Yuanzhang;Wang Shuangshuang;Zhu Guangwei~

2021/07627 ~ Complete ~54:SYNTHESIS, PRODUCT, AND APPLICATION OF A MAGNETIC COVALENT ORGANIC FRAMEWORK DENOTED AS MTFBD-PPD ~71:Qingdao Keda Future Biotechnology Co., LTD, No 29, Haier Road, Laoshan District, Qingdao City, Shandong Province, 266042, People's Republic of China;Qingdao University of Science & Technology, No 53, Zhengzhou Road, Shibei District, Qingdao City, Shandong Province, 266042, People's Republic of China ~72: Che Hongxia;Dong Xiufang;Dong Zequn;Guo Hao;Li Hongyan;Song Lin;Xie Wancui;Yang Xihong~

2021/07633 ~ Complete ~54:KOI AND VEGETABLE SYMBIOSIS CIRCULATING AQUACULTURE SYSTEM AND METHOD ~71:Qingdao Agricultural University, Building 41, Hanlin Garden, Chunyang Road, Chengyang District, Qingdao City, Shandong Province, 266109, People's Republic of China;Shandong Tangwang Carp Agricultural Development Co., Ltd., Building 41, Hanlin Garden, Chunyang Road, Chengyang District, Qingdao City, Shandong Province, 266109, People's Republic of China ~72: JIANG, Shibo;LIU, Bo;WANG, Feng;ZHENG, Bo~ 33:CN ~31:202110542499.9 ~32:18/05/2021

2021/07635 ~ Complete ~54:FRAME BEAM REINFORCEMENT DEVICE FOR ARCHITECTURAL ENGINEERING AND USING METHOD THEREOF ~71:Nan Tong Xin Hua Construction Group Co., Ltd., 34 Xinjin Road, Jinsha Town, Tongzhou District, Nantong City, Jiangsu Province, 226300, People's Republic of China ~72: LU, Jian;LU, Zongbing;QU, Zuming;ZHANG, Naihua~

2021/07647 ~ Complete ~54:ANTI-VEGF PROTEIN COMPOSITIONS AND METHODS FOR PRODUCING THE SAME ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: CASEY, Meghan;JOHNSON, Amy;LAWRENCE, Shawn;LI, Ning;MASTROGIACOMO, Jaimie;WANG, Shunhai~ 33:US ~31:62/944,635 ~32:06/12/2019;33:US ~31:63/065,012 ~32:13/08/2020

2021/07652 ~ Complete ~54:COLUMN AND LEG LOCKING ASSEMBLIES FOR STATIONARY PLATFORMS ~71:SHELTERED WINGS, INC., ONE VORTEX DRIVE, BARNEVELD, WI 53507, USA, United States of America ~72: COLLINS, Alec;HAMILTON, David, M.~ 33:US ~31:62/817,876 ~32:13/03/2019

2021/07653 ~ Complete ~54:PROCESS FOR THE PREPARATION OF CLC-1 CHLORIDE CHANNEL INHIBITORS ~71:NMD PHARMA A/S, Palle Juul-Jensens Boulevard 82, Denmark ~72: KELLY, Nicholas;MCKENZIE, Michael John~ 33:EP ~31:19181262.7 ~32:19/06/2019

2021/07660 ~ Complete ~54:ANTI-EGFRVIII ANTIBODIES AND ANTIGEN-BINDING FRAGMENTS THEREOF ~71:NATIONAL RESEARCH COUNCIL OF CANADA, 1200 Montreal Road, Ottawa, Ontario, K1A 0R6, Canada ~72: ANNE MARCIL;CUNLE WU;MARIA MORENO;MARIA JARAMILLO;TRAIAN SULEA~ 33:US ~31:62/824,386 ~32:27/03/2019

2021/07613 ~ Complete ~54:INTELLIGENT SPECTRUM SENSING METHOD FOR COGNITIVE INTERNET OF VEHICLES ~71:Qingdao University of Science and Technology, No.99 Songling Rd, Qingdao, Shandong, 260061, People's Republic of China ~72: Chen Zhe;Duan Yanyan;Gao Zhihe;Xu Lingwei;Zhou Xinpeng~

2021/07617 ~ Complete ~54:HIGH-YIELD PLANTING METHOD OF CHRYSANTHEMUM ~71:Zhongkai University of Agriculture and Engineering, No.501 Zhongkai Road, Haizhu District, Guangzhou City, Guangdong Province, People's Republic of China ~72: Huang Zifeng;Wang Fenglan;Wu Qing;Xia Hanhan~

2021/07643 ~ Complete ~54:ANTI-VEGF PROTEIN COMPOSITIONS AND METHODS FOR PRODUCING THE SAME ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: DALY, Thomas;FRANKLIN, Matthew;LI, Ning;PALACKAL, Nisha;PYLES, Erica;TUSTIAN, Andrew;VARTAK, Ankit;WANG, Shunhai~ 33:US ~31:62/944,635 ~32:06/12/2019;33:US ~31:63/065,012 ~32:13/08/2020

2021/07644 ~ Complete ~54:ANTI-VEGF PROTEIN COMPOSITIONS AND METHODS FOR PRODUCING THE SAME ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: FRANKLIN, Matthew~ 33:US ~31:62/944,635 ~32:06/12/2019;33:US ~31:63/065,012 ~32:13/08/2020

2021/07648 ~ Complete ~54:ANTI-VEGF PROTEIN COMPOSITIONS AND METHODS FOR PRODUCING THE SAME ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: DALY, Thomas;LI, Ning;PALACKAL, Nisha;PYLES, Erica;TUSTIAN, Andrew;VARTAK, Ankit;WANG, Shunhai~ 33:US ~31:62/944,635 ~32:06/12/2019;33:US ~31:63/065,012 ~32:13/08/2020

2021/07656 ~ Complete ~54:PESTICIDAL GENES AND METHODS OF USE ~71:COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES, 25, rue Leblanc - Bâtiment Le Ponant D, France;GENECTIVE, Rue Henri Mondor Biopôle Clermont-Limagne, France;GROUPEMENT NATIONAL INTERPROFESSIONNEL DES SEMENCES, GRAINES ET PLANTS (G.N.I.S.), 44, rue du Louvre, France;PROTEUS, 23, rue Bossuet - ZI de la Vigne aux Loups, France ~72: ACHOUAK, Wafa;BARAKAT, Mohamed;BONZOM-AUDIFFRIN, Carine;BOSIO, Mickael;GUYON, Virginie;HEULIN, Thierry;ORTET, Philippe;PAUL, Wyatt;SALLAUD, Christophe;VALLENET, David~ 33:EP ~31:19305304.8 ~32:13/03/2019

2021/07661 ~ Complete ~54:IMPLICIT TRANSFORM SELECTION IN 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 ~31:62/817,397 ~32:12/03/2019;33:US ~31:16/815,920 ~32:11/03/2020

2021/07626 ~ Complete ~54:THE PREPARATION METHOD AND APPLICATION OF MALIC ACID-CHITOSAN NANOPOROUS HYDROGEL MICROSPHERES ~71:Qingdao Keda Future Biotechnology Co., LTD, No 29, Haier Road, Laoshan District, Qingdao City, Shandong Province, 266042, People's Republic of China;Qingdao University of Science & Technology, No 53, Zhengzhou Road, Shibei District, Qingdao City, Shandong

Province, 266042, People's Republic of China ~72: Che Hongxia;Dong Xiufang;Guo Hao;Li Hongyan;Lu Kuan;Song Lin;Xie Wancui;Yang Xihong~

2021/07628 ~ Complete ~54:VENTRICULAR DRAINAGE FIXING DEVICE SUITABLE FOR TRANSPORT VEHICLE ~71:The Affiliated Hospital of Youjiang Medical University for Nationalities, No.18 Zhongshan 2nd Road, Youjiang District, Baise City, Guangxi Zhuang Autonomous Region, 533000, People's Republic of China ~72: Peng Hao~

2021/07631 ~ Complete ~54:A QUICK-INSTALLED VISUAL MONITORING SUPPORT FOR FORESTRY ~71:Central South University of Forestry and Technology, Central South University of Forestry and Technology, Shaoshan South Road, No. 498, Changsha, Hunan, 410004, People's Republic of China ~72: ZHANG, Jiang~

2021/07636 ~ Complete ~54:PREPARATION METHOD AND USE OF MULTIFUNCTIONAL DIAGNOSTIC AND THERAPEUTIC AGENT BASED ON CU SINGLE ATOM/AU CLUSTER ~71:LINYI UNIVERSITY, Middle Section of Shuangling Road, Lanshan District, Linyi City, Shandong Province, 276005, People's Republic of China ~72: DAI, Zhichao;HU, Zunfu;SUN, Yunqiang;TANG, Weina;WANG, Shan;ZHANG, Huimin;ZHENG, Xiuwen~ 33:CN ~31:202011608358.4 ~32:30/12/2020

2021/07664 ~ Complete ~54:PROBABILITY INITIALIZATION FOR VIDEO CODING ~71:QUALCOMM Incorporated, ATTN: International IP Administration, 5775 Morehouse Drive, SAN DIEGO 92121-1714, CA, USA, United States of America ~72: DONG, Jie;KARCZEWICZ, Marta;SAID, Amir;SEREGIN, Vadim~ 33:US ~31:62/817,475 ~32:12/03/2019;33:US ~31:62/834,297 ~32:15/04/2019;33:US ~31:62/871,519 ~32:08/07/2019;33:US ~31:16/816,016 ~32:11/03/2020

2021/07667 ~ Complete ~54:NOVEL AAV CAPSIDS AND COMPOSITIONS CONTAINING SAME ~71:The Trustees of the University of Pennsylvania, 3600 Civic Center Blvd., 9th Floor, PHILADELPHIA 19104, PA, USA, United States of America ~72: NAMBIAR, Kalyani;WANG, Qiang;WILSON, James M.~ 33:US ~31:62/840,184 ~32:29/04/2019;33:US ~31:62/913,314 ~32:10/10/2019;33:US ~31:62/924,095 ~32:21/10/2019

2021/07610 ~ Complete ~54:COMPREHENSIVE CHARACTERIZATION METHOD OF SHALE FULL-SCALE PORE STRUCTURE HETEROGENEITY CHARACTERISTICS ~71:China University of Mining and Technology, No.1, Daxue Road, Xuzhou City, Jiangsu Province, People's Republic of China;Shale Gas Research Institute of PetroChina Southwest Oil & Gasfield Company, No.1, Section 1, Jianshe North Road, Chenghua District, Chengdu, Sichuan Province, People's Republic of China ~72: Chen Shangbin;Li Xueyuan;Wang Huijun;Wang Yang;Wang Yiwen;Wu Jianfa;Zhang Jian;Zhao Shengxian~

2021/07609 ~ Complete ~54:WINE YEAST SACCHAROMYCES CEREVISIAE WITH HIGH MELATONIN PRODUCTION AND USE THEREOF ~71:SHANDONG AGRICULTURAL UNIVERSITY, 61 Daizong Street, Tai'an City, Shandong Province, 271018, People's Republic of China;TAISHAN UNIVERSITY, 525 Dongyue Street, Daiyue District, Tai'an City, Shandong, 271000, People's Republic of China ~72: JIA, Runpu;QIN, Weishuai;YAO, Yuxin;ZHANG, Na~ 33:CN ~31:202110140188.X ~32:02/02/2021

2021/07623 ~ Complete ~54:ADAPTATION OF AN INTERNAL COMBUSTION LOCOMOTIVE ~71:BATTERY ELECTRIC (PTY) LIMITED, 533 Malcolm Moodie Crescent, Jet Park, Boksburg, South Africa ~72: MARAIS, Marnus~ 33:ZA ~31:2020/05095 ~32:18/08/2020

2021/07722 ~ Provisional ~54:METHOD AND APPARATUS FOR AUTOMATIC IV-CATHETER INSERTION ~71:SA-AYDIEN ALLY, 162 Fifth Ave Discovery Ext.9, South Africa ~72: SA-AYDIEN ALLY~

2021/07620 ~ Complete ~54:METHOD AND SYSTEM FOR FAULT DETECTION OF CHARGING FACILITIES BASED ON DEEP LEARNING ~71:Lanjiang Qinghu (Beijing) Technology Co., Ltd, Room 209-14, No. 9

Fengxiang East Street, Yangsong Town, Huairou District, Beijing City, People's Republic of China ~72: Fang Xiang~

2021/07632 ~ Complete ~54:INFORMATION INTERACTION SYSTEM FOR HOTEL TOURISM MANAGEMENT ~71:Central South University of Forestry and Technology, Central South University of Forestry and Technology, Shaoshan South Road, No. 498, Changsha, Hunan, 410004, People's Republic of China ~72: YANG, Mei~

2021/07646 ~ Complete ~54:ANTI-VEGF PROTEIN COMPOSITIONS AND METHODS FOR PRODUCING THE SAME ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: DALY, Thomas;PALACKAL, Nisha;PYLES, Erica;TUSTIAN, Andrew;VARTAK, Ankit~ 33:US ~31:62/944,635 ~32:06/12/2019;33:US ~31:63/065,012 ~32:13/08/2020

2021/07621 ~ Complete ~54:MAGNETIC-LEVITATION AUXILIARY FAN FOR MINE ~71:China University of Mining and Technology, Beijing, Ding No.11 Xueyuan Road, Haidian District, Beijing, 100083, People's Republic of China;Nanjing University of Aeronautics and Astronautics, 29 Yu Dao Street, Qinhuai District, Nanjing, Jiangsu, 210016, People's Republic of China ~72: CAO, Liuji;GAO, Qiang;LI, Xiangchun;MENG, Junqing;NIE, Baisheng;ZHOU, Jin~ 33:CN ~31:202011079726.0 ~32:10/10/2020

2021/07629 ~ Complete ~54:BLOOD PRESSURE CUFF OF MULTI-PARAMETER MONITOR ~71:The Affiliated Hospital of Youjiang Medical University for Nationalities, No.18 Zhongshan 2nd Road, Youjiang District, Baise City, Guangxi Zhuang Autonomous Region, People's Republic of China ~72: Peng Hao~

2021/07640 ~ Complete ~54:GRANULAR HOLOTRICHIA PARALLELA SLOW-RELEASE SEX ATTRACTANT AND PREPARATION METHOD THEREOF ~71:SHANDONG PEANUT RESEARCH INSTITUTE, NO.126 WANNIANQUAN ROAD, LICANG DISTRICT, People's Republic of China ~72: CHUNJUAN QU;FANGQIN YAN;KUN JIAO;LONG DU;MINGJING QU;QIAN JU;WEIJIA LIU;XIAO LI;XIAOJING JIANG~

2021/07668 ~ Complete ~54:METHODS OF TREATING NON-HODGKIN LYMPHOMA USING 2-(2,6-DIOXOPIPERIDIN-3-YL)-4-((2-FLUORO-4-((3-MORPHOLINOAZETIDIN-1-YL)METHYL)BENZYL)AMINO)ISOINDOLINE-1,3-DIONE ~71: Celgene Corporation, 86 Morris Avenue, SUMMIT 07901, NJ, USA, United States of America ~72: ANTON, Maria Soraya Carrancio;BUCHHOLZ, Tonia J.;LOPEZ-GIRONA, Antonia;NARLA, Rama Krishna;POURDEHNAD, Michael~ 33:US ~31:62/833,432 ~32:12/04/2019

2021/07669 ~ Complete ~54:EXHAUST SYSTEM AND FEATURES THEREOF ~71:ECC TEC MSJ INCORPORATED, 8068 Red Jasper LN #101, Delray Beach, United States of America ~72: AKYILDIZ, Saban~ 33:US ~31:16/664,172 ~32:25/10/2019;33:US ~31:PCT/US2019/063387 ~32:26/11/2019;33:US ~31:16/625,074 ~32:20/12/2019

2021/07671 ~ Provisional ~54:HUMAN REMAINS IDENTITY TUG ~71:MANONO LESLIE BONOKO, 7 PLEIN STREET, MIDDELBURG, South Africa ~72: MANONO LESLIE BONOKO~

2021/07607 ~ Provisional ~54:CARRIER AND CARRIER KIT FOR A HOOKAH ~71:SELAMOLELA, Tshepo, 562 Bela-Bela, Motsisi Street, South Africa ~72: SELAMOLELA, Tshepo~

2021/07612 ~ Complete ~54:LIGHTING DEVICE WITH FEATURE OF INVISIBLE TELEPROMPTER ~71:WEIFANG UNIVERSITY, Weifang University, No. 5147 Dongfeng East Street, High-tech Zone, Weifang City, Shandong , 261061, People's Republic of China ~72: CAO, Lianzhen;DAI, Changzhi;ZHAO, Jiaqiang~

2021/07619 ~ Complete ~54:REGENERATION PROCESSING OF REACTION TAIL GAS ~71:Shaoxing University, No.508, Huancheng West Road, Yuecheng District, Shaoxing City, Zhejiang Province, People's

Republic of China ~72: Chen Bin;Dong Huaping;Gao Xiaozhong;Liu Wei;Shen Runpu;Sheng Guodong;Song Xiaohua;Xu Huiting~

2021/07622 ~ Complete ~54:FILM MULCHING PLANTING METHOD FOR CROPS IN DRY LAND
~71:SHANGDU SCIENCE AND TECHNOLOGY COMMISSIONER WORKSTATION, LUWANG STREET,
People's Republic of China ~72: DU, XIAOYUN;GAO, JINHE;LI, JUNZI;LI, XINMIN;LIU, LIXIN;SUN,
LIFANG;SUN, XUDONG;WANG, FUTIAN;WEN, JIANPING;ZHANG, XIU;ZHAO, SHUFEN~

2021/07625 ~ Complete ~54:STIRRER MEMBER ~71:MINTEK, 200 Malibongwe Drive, South Africa ~72: FORD,
Elizabeth Maria~ 33:ZA ~31:2020/06306 ~32:12/10/2020

2021/07642 ~ Complete ~54:HANDSTAND ROLLER SKATING FITNESS TRAINING DEVICE ~71:SHANDONG
NORMAL UNIVERSITY, No. 88, Wenhua Dong Road, Lixia District, Jinan, People's Republic of China ~72: LI,
Guohua;LIU, Xiaoyi;TIAN, Lei;WANG, Zhongyong~ 33:CN ~31:202110350560.X ~32:31/03/2021

2021/07630 ~ Complete ~54:TRACK TYPE VISUAL FORESTRY MONITORING DEVICE ~71:Central South
University of Forestry and Technology, Central South University of Forestry and Technology, Shaoshan South
Road, No. 498, Changsha, Hunan, 410004, People's Republic of China ~72: ZHANG, Jiang~

2021/07639 ~ Complete ~54:BREAKOUT WRENCH APPARATUS ~71:MAMMOTH PLANT AND EQUIPMENT
PROPRIETARY LIMITED, 9A Chopin Street, Klarinet Industrial Area, Witbank 1035, Mpumalanga, SOUTH
AFRICA, South Africa ~72: GOUWS, Juan~ 33:ZA ~31:2021/00155 ~32:11/01/2021

2021/07662 ~ Complete ~54:COEFFICIENT DOMAIN BLOCK DIFFERENTIAL PULSE-CODE MODULATION IN
VIDEO CODING ~71:QUALCOMM Incorporated, ATTN: International IP Administration, 5775 Morehouse Drive,
SAN DIEGO 92121-1714, CA, USA, United States of America ~72: COBAN, Muhammed Zeyd;KARCZEWICZ,
Marta~ 33:US ~31:62/817,451 ~32:12/03/2019;33:US ~31:16/816,116 ~32:11/03/2020

2021/07665 ~ Complete ~54:DESTINATION ADDRESSING ASSOCIATED WITH A DISTRIBUTED LEDGER
~71:nChain Holdings Limited, Fitzgerald House, 44 Church Street, ST. JOHN'S, ANTIGUA â
BARBUDA, Antigua and Barbuda ~72: MEE, Andy~ 33:US ~31:16/384,696 ~32:15/04/2019;33:GB
~31:1907180.2 ~32:21/05/2019

2021/07641 ~ Complete ~54:METHOD AND SYSTEM FOR INFORMATION MONITORING AND EARLY
WARNING OF FOODBORNE DISEASE ~71:SHANDONG PROVINCIAL HOSPITAL AFFILIATED TO
SHANDONG FIRST MEDICAL UNIVERSITY, No. 324, Jingwu Road, Huaiyin District, Shandong Province,
People's Republic of China ~72: CAO, Feng;HE, Huihui;LEI, Yuxin;WU, Qingzhong;YANG, Jun;ZHAI,
Hong;ZHAO, Kai;ZHAO, Yantong~ 33:CN ~31:202110075030.9 ~32:20/01/2021

2021/07649 ~ Complete ~54:COMPOSITE BOARD FROM PLASTIC WASTE ~71:VIELFREUND, Amit, Pinkas
20, Bat Yam, 5948327, Israel;VIELFREUND, Sissel Alexander Symon, Trumpeldor St. 23, Tel Aviv, 6314707,
Israel;VIELFREUND, Tal David, HaAtzmaut Boulevard 20, Bat Yam, 5937804, Israel ~72: VIELFREUND, Sissel
Alexander Symon~ 33:US ~31:62/839,801 ~32:29/04/2019

2021/07655 ~ Complete ~54:TOPICAL FORMULATION ~71:FOLLICUM AB, Scheelevägen 22, Sweden
~72: ALENFALL, Jan;EKBLAD, Maria;LINDAHL, Åke~ 33:EP ~31:19170868.4 ~32:24/04/2019

2021/07663 ~ Complete ~54:AIR-COMPRESSION ENERGY-STORAGE AND POWER-SUPPLY SYSTEM
HAVING AIR PURIFICATION CAPABILITY THROUGH USING SOLAR ENERGY ~71:HWANG, Yuan Cherng,
No.6-27, Yatan Rd., Daya Dist., TAICHUNG CITY 428, TAIWAN (R.O.C.), Taiwan, Province of China;TSEN,

Ping-Kun, No.158-2, Minsheng Rd., West Dist., TAICHUNG CITY 403, TAIWAN (R.O.C.), Taiwan, Province of China ~72: HWANG, Yuan Cherng;TSEN, Ping-Kun~

2021/07650 ~ Complete ~54:METHOD AND NODES FOR HANDLING SYSTEM INFORMATION
~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83 STOCKHOLM, SWEDEN, Sweden ~72:
BERGQVIST, Jens;NAKARMI, Prajwol, Kumar;OHLSSON, Oscar~ 33:US ~31:62/816,940 ~32:12/03/2019

2021/07624 ~ Complete ~54:PREPARATION METHOD OF HIGHLY ACTIVE FRESH WAXBERRY JUICE
~71:Henan Agricultural University, No. 63 Agricultural Road, Jinshui District, Zhengzhou City,, People's Republic
of China;Hunan Yipin Oriental Biotechnology Co., Ltd., Shili Village, Genshankou Administrative Committee,
Jingzhou Miao and Dong Autonomous County, Huaihua City,, People's Republic of China ~72: DENG,
Wenyi;PENG, Wanxi~ 33:CN ~31:202110963050.X ~32:20/08/2021

2021/07637 ~ Complete ~54:TABLE ~71:Glen Clifton Kruger, 102 Hampton Road, Glen Austin, Midrand, South
Africa ~72: Glen Clifton Kruger~ 33:ZA ~31:2020/06331 ~32:13/10/2020

2021/07651 ~ Complete ~54:VIDEO CODING COMPRISING RECTANGULAR TILE GROUP SIGNALING
~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83 STOCKHOLM, SWEDEN, Sweden ~72:
DAMGHANIAN, Mitra;PETTERSSON, Martin;SJÖBERG, Rickard;STRÖM, Jacob~ 33:US
~31:62/816.563 ~32:11/03/2019

2021/07608 ~ Provisional ~54:DEVICE AND METHOD FOR REPAIRING SANDALS ~71:FORSTER, Mark
Robert Aylmer, 521 Aristea Close, Boschenmeer Golf Estate, Paarl 7646, SOUTH AFRICA, South Africa;KURTZ,
Lee-anne, 163 Val de Vie Estate, Paarl 7646, SOUTH AFRICA, South Africa ~72: FORSTER, Mark Robert
Aylmer~

2021/07638 ~ Complete ~54:VIDEO PICTURE PREDICTION METHOD AND APPARATUS ~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, Huanbang;YANG, Haitao~ 33:CN
~31:201811268188.2 ~32:29/10/2018;33:CN ~31:201811642717.0 ~32:29/12/2018

2021/07657 ~ Complete ~54:FAULT DETERMINATION METHOD AND SYSTEM FOR SCREW COMPRESSOR
~71:CRRC ZHUZHOU LOCOMOTIVE CO., LTD., Tianxin high-tech park, Shifeng District, Zhuzhou, Hunan,
412001, People's Republic of China ~72: CHANGZHENG FANG;DAN LI;JINHUI LI;PING ZENG;SHICHUAN
XIE;YINGYING GUO~ 33:CN ~31:201910311223.2 ~32:18/04/2019

2021/07670 ~ Complete ~54:A DRILL HAMMER ~71:GIEN, Bernard Lionel, 13 Smits Street, South Africa ~72:
GIEN, Bernard Lionel~ 33:ZA ~31:2019/01724 ~32:20/03/2019

2021/07634 ~ Complete ~54:PREPARATION METHOD OF FLOCCULANT FOR TREATING COAGULATION OF
PI RIVER WATER ~71:West Anhui University, West Anhui University, Moon Island, West of Yunlu Bridge, Lu
'an City, Anhui Province, People's Republic of China ~72: Jia Rusheng;Tu Youxiao;Wang Wanfen;Yang Jie~
33:CN ~31:202111097878.8 ~32:18/09/2021

2021/07654 ~ Complete ~54:BENZODIAZEPINE DERIVATIVES AS RSV INHIBITORS ~71:ENANTA
PHARMACEUTICALS, INC., 500 ARSENAL STREET, WATERTOWN, MASSACHUSETTS 02472, USA, United
States of America ~72: KIM, In, Jong;McGRATH, Kevin;NEGRETTE-EMMANUELLI, Solymar;OR, Yat,
Sun;SZYMANIAK, Adam;YU, Jianming;ZHU, Kaicheng~ 33:US ~31:62/819,915 ~32:18/03/2019;33:US
~31:62/821,094 ~32:20/03/2019

2021/07659 ~ Complete ~54:CAMERA MOUNTING ARRANGEMENT ~71:ALLBRO (PTY) LTD, 121, 13th Avenue, Anderbolt Ext 32, Boksburg, Gauteng, South Africa ~72: AREND DE WAAL;QUINTIN LAMPRECHT~

2021/07618 ~ Complete ~54:SPECIAL CONTROLLED RELEASE FERTILIZER FOR CHRYSANTHEMUM AND PREPARATION METHOD THEREOF ~71:Zhongkai University of Agriculture and Engineering, No. 501 Zhongkai Road, Haizhu District, Guangzhou City, Guangdong Province, People's Republic of China ~72: Huang Zifeng;Li Zhimei;Luo Honghui;Qiu Minde;Wang Fenglan;Zhou Hougao~

2021/07645 ~ Complete ~54:ANTI-VEGF PROTEIN COMPOSITIONS AND METHODS FOR PRODUCING THE SAME ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: BHUPENDER BHALLA, Amardeep Singh;CHEN, Hunter;LI, Ning;WANG, Shunhai~ 33:US ~31:62/944,635 ~32:06/12/2019;33:US ~31:63/065,012 ~32:13/08/2020

2021/07658 ~ Complete ~54:DRUG AND METHOD FOR TREATING OR PREVENTING COMPLICATIONS FROM DIABETES, USING SAID DRUG ~71:BIOGEN MA INC., 225 Binney Street, Cambridge, Massachusetts, 02142, United States of America;SHOWA UNIVERSITY, 1-5-8, Hatanodai, Shinagawa-ku, Tokyo, 1428555, Japan ~72: KEITA SHIBATA;KOJI NOBE;RYOSUKE SHINOUCHI;TERUMASA HASHIMOTO~ 33:JP ~31:2019-044670 ~32:12/03/2019

2021/07666 ~ Complete ~54:ASSAY APPARATUSES, METHODS AND REAGENTS ~71:Meso Scale Technologies, LLC., 1601 Research Boulevard, ROCKVILLE 20850, MD, USA, United States of America ~72: CLINTON, Charles M.;KOCHAR, Manish;KOVACS, Sandor;KRIVOY, Gary I.;LEIMKUEHLER, Aaron H.;TABAKIN, Leo;VANDERSARL, Jules;WILLOUGHBY, Jon;ZIMMERMAN, Cecilia~ 33:US ~31:62/874,828 ~32:16/07/2019;33:US ~31:62/954,961 ~32:30/12/2019

2021/07615 ~ Complete ~54:SAND AUTOCLAVED AERATED CONCRETE BLOCK AND ITS PROCESSING METHOD ~71:Fifth Division Tian Fuyuan new building materials Co., Ltd., Jinsha Mountain Industrial Park, Regiment 83, Shuanghe City, Xinjiang Province, People's Republic of China;Shihezi University, 221 Beisi Road, Shihezi City, Xinjiang Uygur Autonomous Region, People's Republic of China ~72: Jiang Zhenyang;Liao Huan;Wang Di;Wang Haifeng;Wang Rui;Wang Yushan;Yang Zhihui;Yuan Jie;Zeng Xiaoyun;Zhou Yang~

- APPLIED ON 2021/10/12 -

2021/07726 ~ Complete ~54:METHOD FOR PERFORMING TOPPING PRESSURE RELIEF IN ADVANCE DURING TERMINAL MINING OF COAL SEAM FACE ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, NO.168, TAIFENG STREET, People's Republic of China;HUAHE ENERGY WEST COAL POWER GROUP CO., LTD., NO. 72 ORDOS WEST STREET, DONGSHENG DISTRICT, People's Republic of China ~72: JIEGAO LIU;MIAOHU CHEN;MIN TU;XIANGYANG ZHANG;XIUGUAN LI;YANRONG ZHENG;YI ZHANG;YINGUI GAO~

2021/07698 ~ Complete ~54:A COLD ROLLED MARTENSITIC STEEL AND A METHOD OF MARTENSITIC STEEL THEREOF ~71:ARCELORMITTAL, 24-26, Boulevard d'Avranches, Luxembourg ~72: Matthieu SIEBENTRITT;Vincent LHOIST~ 33:IB ~31:PCT/IB2019/054022 ~32:15/05/2019

2021/07710 ~ Complete ~54:ISOCHROMENE DERIVATIVES AS PHOSPHOINOSITIDE 3-KINASES INHIBITORS ~71:CHIESI FARMACEUTICI S.P.A., Via Palermo, 26/A, 43122, Parma, Italy ~72: CLAUDIO FIORELLI;MATTEO BIAGETTI;PAOLO BRUNO;PAOLO RONCHI~ 33:EP ~31:19167245.0 ~32:04/04/2019

2021/07717 ~ Complete ~54:FIRE-PROOF MATERIAL ~71:FIRST POINT A.S., Bmenska 4404/65a, Czech Republic ~72: CHLANDOVA, Gabriela;SPANIEL, Petr~ 33:CZ ~31:PV 2019-511 ~32:06/08/2019

2021/07695 ~ Complete ~54:ANTI-PROLIFERATIVE AGENTS FOR TREATING PAH ~71:PFIZER INC., 235 East 42nd Street, United States of America ~72: BEHENNA, Douglas, Carl;BHATTACHARYA, Samit, Kumar;CAMERON, Kimberly, O.;CHEN, Ping;CURTO, John, M.;FREEMAN-COOK, Kevin Daniel;JALAIE, Mehran;KANIA, Robert, Steven;LIAN, Yajing;NAIR, Sajiv, Krishnan;PALMER, Cynthia, Louise;PETTERSSON, Martin, Youngjin;RUI, Eugene, Yuanjin;SAMMONS, Matthew, Forrest;YANG, Qingyi;ZHANG, Liying~ 33:US ~31:62/836,340 ~32:19/04/2019;33:US ~31:62/981,620 ~32:26/02/2020

2021/07709 ~ Complete ~54:CELL-FREE PRODUCTION OF RIBONUCLEIC ACID ~71:GREENLIGHT BIOSCIENCES, INC., 200 Boston Avenue, Suite 1000 , Medford, Massachusetts, 02155, United States of America ~72: ANDREY J ZARUR;DREW S CUNNINGHAM;JAMES R ABSHIRE;MICHAEL E HUDSON;RACHIT JAIN~ 33:US ~31:62/826,983 ~32:29/03/2019

2021/07676 ~ Complete ~54:METHOD FOR REMEDIATION OF HEAVY METAL CONTAMINATED SOIL OR WATER USING HYPERACCUMULATOR POTHERB MUSTARD ~71:Northwest A and F University, No. 3, Taicheng Road, Yangling Demonstration Zone, Shaanxi Province, 712100, People's Republic of China ~72: LI, Ronghua;SHEN, Feng;WANG, Ping;ZHANG, Han;ZHANG, Zengqiang~

2021/07684 ~ Complete ~54:AN INFLATABLE ROCK BOLT ~71:HOLFELD, Barry Graeme, 1027 Schooner Avenue, South Africa ~72: HOLFELD, Barry Graeme~ 33:ZA ~31:2020/06394 ~32:15/10/2020

2021/07689 ~ Complete ~54:HEART VALVE SEALING DEVICES AND DELIVERY DEVICES THEREFOR ~71:Edwards Lifesciences Corporation, One Edwards Way, Legal Department, IRVINE 92614, CA, USA, United States of America ~72: DELGADO, Sergio;DIXON, Eric Robert;FRESCHAUF, Lauren R.;METCHIK, Asher L.;SIEGEL, Alexander J.;SOK, Sam;TAYLOR, David M.;TYLER II, Gregory Scott;WINSTON, Matthew~ 33:US ~31:62/486,835 ~32:18/04/2017;33:US ~31:62/504,389 ~32:10/05/2017;33:US ~31:62/555,240 ~32:07/09/2017;33:US ~31:62/571,552 ~32:12/10/2017

2021/07696 ~ Complete ~54:PASTURE TREATMENTS FOR ENHANCED CARBON SEQUESTRATION AND REDUCTION IN LIVESTOCK-PRODUCED GREENHOUSE GAS EMISSIONS ~71:LOCUS IP COMPANY, LLC, 30500 Aurora Road, Suite 180, United States of America ~72: ALIBEK, Ken;FARMER, Sean~ 33:US ~31:62/833,355 ~32:12/04/2019;33:US ~31:62/885,876 ~32:13/08/2019;33:US ~31:62/967,907 ~32:30/01/2020

2021/07714 ~ Complete ~54:WOOD CHIP MATERIAL AND METHOD OF ITS PRODUCTION ~71:FIRST POINT A.S., Bmenska 4404/65a, Czech Republic ~72: CHLANDOVA, Gabriela;SPANIEL, Petr~ 33:CZ ~31:PV 2019-510 ~32:06/08/2019

2021/07721 ~ Complete ~54:SYSTEM, METHOD AND APPARATUS FOR PROVIDING VARIABLE RATE APPLICATION OF APPLICANTS TO DISCRETE FIELD LOCATIONS ~71:VALMONT INDUSTRIES, INC., One Valmont Plaza, United States of America ~72: KASTL, John;LARUE, Jacob L.~ 33:US ~31:62/867,338 ~32:27/06/2019

2021/07672 ~ Provisional ~54:HYBRID PV / MAINS GEYSER ELEMENT HEATER ~71:Carl Becker, 10 Msonti Rd, Kloof, Dueban, KZN, 3610, South Africa ~72: Carl Becker;Tony Geldenhuys~

2021/07677 ~ Complete ~54:EFFICIENT CLEANING METHOD AND DEVICE FOR SPINNERET PLATE OF DRY SPRAY WET SPINNING CARBON FIBER PRECURSOR ~71:Shandong University, No.27 Shanda South Road, Jinan City, Shandong Province, People's Republic of China ~72: Ji Jintao;Kang Wanping;Liu Yayun;Lyu Jianguo;Wang Hongli;Zhao Shengyao;Zhu Bo~

2021/07679 ~ Complete ~54:AN INTELLIGENT LANDSCAPE ARCHITECTURE DESIGN SIGN ~71:Southwest University of Science and Technology, No.59, Middle Section of Qinglong Avenue, Fucheng District, Mianyang City, Sichuan, 621010, People's Republic of China ~72: Mingying Zeng;Qingsong Xian~ 33:CN ~31:202110260721.6 ~32:10/03/2021

2021/07683 ~ Complete ~54:PREPARATION OF ALUMINUM LITHIUM DEUTERIDE AND DETERMINATION METHOD ~71:ZHUANG, Yingjun, Specialized and New Company, Fine Chemical Park, Lanzhou New District, Lanzhou City, Gansu Province, 730300, People's Republic of China ~72: ZHUANG, Yingjun~

2021/07702 ~ Complete ~54:A METHOD FOR ESTIMATING REMAINING USEFUL LIFE OF COMPONENTS OF AN OPERATIONAL WIND TURBINE ~71:Acciona Generaci#243;n Renovable, S.A., Avda. Ciudad de la Innovaci#243;n, 5, SARRIGUREN (NAVARRA) 31621, SPAIN, Spain;Sentient Science Corporation, 672 Delaware Ave, BUFFALO 14209, NY, USA, United States of America ~72: GALLEGO-CALDERON, Juan;IRUJO ESPINOSA DE MONTEROS, Mercedes;RIBARIC, Adrijan~

2021/07703 ~ Complete ~54:DOWN THE HOLE DRILLING ASSEMBLY EXHAUST ASSEMBLY ~71:Sandvik Mining and Construction Oy, Pihtisulunkatu 9, TAMPERE 33330, FINLAND, Finland ~72: BRUANDET, Olivier~ 33:EP ~31:19181470.6 ~32:20/06/2019

2021/07706 ~ Complete ~54:HEALTH PROMOTING FOOD PRODUCTS AND METHOD FOR DESIGNING AND MANUFACTURING SAME ~71:BROUSSARD Robert, R., 302 Le Triomphe Pkwy, Broussard, LA 70518 (USA), United States of America ~72: BROUSSARD Robert, R.~ 33:US ~31:US 62/813,456 ~32:04/03/2019

2021/07715 ~ Complete ~54:COMPOUND FOR SURFACE PROTECTION ~71:FIRST POINT A.S., Brnenska 4404/65a, Czech Republic ~72: CHLANDOVA, Gabriela;SPANIEL, Petr~ 33:CZ ~31:PV 2019-447 ~32:05/07/2019

2021/07682 ~ Complete ~54:COMPOSITE BOARD FORMED BY PULTRUSION ~71:Shandong University, No.27 Shanda South Road, Jinan City, Shandong Province, People's Republic of China ~72: Cao Weiwei;Qiao Kun;Wang Yongwei;Zhang Min;Zhu Bo~

2021/07688 ~ Complete ~54:HEART VALVE SEALING DEVICES AND DELIVERY DEVICES THEREFOR ~71:Edwards Lifesciences Corporation, One Edwards Way, Legal Department, IRVINE 92614, CA, USA, United States of America ~72: DELGADO, Sergio;DIXON, Eric Robert;FRESCHAUF, Lauren R.;METCHIK, Asher L.;SIEGEL, Alexander J.;SOK, Sam;TAYLOR, David M.;TYLER II, Gregory Scott;WINSTON, Matthew~ 33:US ~31:62/486,835 ~32:18/04/2017;33:US ~31:62/504,389 ~32:10/05/2017;33:US ~31:62/555,240 ~32:07/09/2017;33:US ~31:62/571,552 ~32:12/10/2017

2021/07692 ~ Complete ~54:CONSTRUCTION METHOD FOR PREVENTING AND CONTROLLING SECONDARY LINING DEFECTS OF TUNNEL ~71:CHINA RAILWAY 16TH BUREAU GROUP CO., LTD., No. 2, Hongsongyuan North Lane, Chaoyang District, Beijing, 100018, People's Republic of China;THE 4TH ENGINEERING CO., LTD. OF CHINA RAILWAY 16TH BUREAU GROUP, No. 2, Yingbin Middle Road, Huairou District, Beijing, 101400, People's Republic of China ~72: DONG MA;HUA YUE;QIAN DONG;SU YAN;WUXIAN WANG;XIAOLU TIAN;YANLING YANG~

2021/07708 ~ Complete ~54:IFNBETA AS A PHARMACODYNAMIC MARKER IN VSV-IFNBETA-NIS ONCOLYTIC THERAPY ~71:MAYO FOUNDATION FOR MEDICAL EDUCATION AND RESEARCH, 200 First Street SW, Rochester, Minnesota, 55905, United States of America;VYRIAD, INC., 2900 37th Street NW, Bldg 110, Rochester, Minnesota, 55901-4444, United States of America ~72: KAH-WHYE PENG;LUKE RUSSELL;STEPHEN JAMES RUSSELL~ 33:US ~31:62/825,482 ~32:28/03/2019

2021/07681 ~ Complete ~54:SIGNING-IN DEVICE FOR COLLEGE STUDENT MANAGEMENT AND USE METHOD THEREOF ~71:LINYI UNIVERSITY, Shuangling Road, Lanshan District, Linyi City, Shandong Province, 276000, People's Republic of China ~72: LI, Kaicai~ 33:CN ~31:202110242291.5 ~32:04/03/2021

2021/07685 ~ Complete ~54:HEART VALVE SEALING DEVICES AND DELIVERY DEVICES THEREFOR ~71:Edwards Lifesciences Corporation, One Edwards Way, Legal Department, IRVINE 92614, CA, USA, United States of America ~72: DELGADO, Sergio;DIXON, Eric Robert;FRESCHAUF, Lauren R.;METCHIK, Asher L.;SIEGEL, Alexander J.;SOK, Sam;TAYLOR, David M.;TYLER II, Gregory Scott;WINSTON, Matthew~ 33:US ~31:62/486,835 ~32:18/04/2017;33:US ~31:62/504,389 ~32:10/05/2017;33:US ~31:62/555,240 ~32:07/09/2017;33:US ~31:62/571,552 ~32:12/10/2017

2021/07690 ~ Complete ~54:FIXED DOSE COMBINATIONS COMPRISING ETC1002 AND ONE OR MORE STATINS FOR TREATING OR REDUCING CARDIOVASCULAR RISK ~71:ESPERION THERAPEUTICS, INC., 3891 Ranchero Drive, Suite 150, Ann Arbor, Michigan, 48108, United States of America ~72: DIANE ELAINE MACDOUGALL;NOAH LABAN ROSENBERG;ROGER SCHOFIELD NEWTON~ 33:US ~31:62/133,739 ~32:16/03/2015;33:US ~31:62/277,403 ~32:11/01/2016

2021/07693 ~ Complete ~54:METHOD AND PLANT FOR PREPARING VINYL CHLORIDE FROM 1,2-DICHLOROETHANE ~71:THYSSENKRUPP AG, ThyssenKrupp Allee 1, Germany;THYSSENKRUPP INDUSTRIAL SOLUTIONS AG, ThyssenKrupp Allee 1, Germany;VINNOLIT GMBH & CO.KG, Chemiepark GENDORF, Industrieparkstr. 1, Germany ~72: Klaus KREJCI;Michael BENJE;Peter KAMMERHOFER~ 33:DE ~31:10 2019 206 155.9 ~32:30/04/2019

2021/07673 ~ Complete ~54:MO-DOPED VS4 CATHODE MATERIAL FOR MAGNESIUM ION BATTERY AND USE THEREOF ~71:Qingdao University of Science and Technology, No. 99, Songling Road, Laoshan District, Qingdao City, Shandong Province, 266061, People's Republic of China ~72: DAI, Xin;DING, Shiqi;LI, Zhenjiang;MENG, Alan;SUN, Changlong~ 33:CN ~31:202011123676.1 ~32:20/10/2020

2021/07674 ~ Complete ~54:HEATING DRUG-PERMEABLE EYELID HOT COMPRESS BAG ~71:Chongqing Medical and Pharmaceutical College, No. 82, Middle University Town Road, Shapingba District, Chongqing, 401331, People's Republic of China ~72: CHENG, Yuanhui;PENG, Jing;WANG, Xin;WU, Xia;XIAO, Xiang~

2021/07680 ~ Complete ~54:HEAD-NECK ACUPOINT 3D COLOR PUZZLE TEACHING AND EXAMINATION APPLIANCE ~71:HUANG, Heyin, No. 51, Section 4, Renmin South Road, Chengdu City, Sichuan Province, 610000, People's Republic of China ~72: HE, Hengsheng;HUANG, Heyin;LAN, Jianbin;LI, Xinrong;WU, Xiaojuan;ZHANG, Lanzhi;ZHANG, Qinxiu;ZHOU, Hao~

2021/07686 ~ Complete ~54:HEART VALVE SEALING DEVICES AND DELIVERY DEVICES THEREFOR ~71:Edwards Lifesciences Corporation, One Edwards Way, Legal Department, IRVINE 92614, CA, USA, United States of America ~72: DELGADO, Sergio;DIXON, Eric Robert;FRESCHAUF, Lauren R.;METCHIK, Asher L.;SIEGEL, Alexander J.;SOK, Sam;TAYLOR, David M.;TYLER II, Gregory Scott;WINSTON, Matthew~ 33:US ~31:62/486,835 ~32:18/04/2017;33:US ~31:62/504,389 ~32:10/05/2017;33:US ~31:62/555,240 ~32:07/09/2017;33:US ~31:62/571,552 ~32:12/10/2017

2021/07704 ~ Complete ~54:INSULATING MATERIAL AND METHOD OF ITS PRODUCTION ~71:FIRST POINT A.S., Bmenska 4404/65a, Czech Republic ~72: CHLANDOVA, Gabriela;SPANIEL, Petr~ 33:CZ ~31:PV 2019-507 ~32:06/08/2019

2021/07712 ~ Complete ~54:FIRE-PROOF INSULATION MATERIAL AND A METHOD FOR ITS PRODUCTION ~71:FIRST POINT A.S., Bmenska 4404/65a, Czech Republic ~72: CHLANDOVA, Gabriela;SPANIEL, Petr~ 33:CZ ~31:PV 2019-509 ~32:06/08/2019

2021/07700 ~ Complete ~54:COMPUTER-IMPLEMENTED SYSTEM AND METHOD FOR IMPLEMENTING ALIAS-BASED ADDRESSING FOR A DISTRIBUTED LEDGER ~71:nChain Holdings Limited, Fitzgerald House, 44 Church Street, ST. JOHN'S, ANTIGUA & BARBUDA, Antigua and Barbuda ~72: DICKHERBER, Ryan;MEE, Andy~ 33:US ~31:16/384,696 ~32:15/04/2019

2021/07713 ~ Complete ~54:INSULATION MATERIAL AND A METHOD FOR ITS PRODUCTION ~71:FIRST POINT A.S., Brnenska 4404/65a, Czech Republic ~72: CHLANDOVA, Gabriela;SPANIEL, Petr~ 33:CZ ~31:PV 2019-446 ~32:05/07/2019

2021/07716 ~ Complete ~54:THERMAL INSULATING PLASTER MIXTURE ~71:FIRST POINT A.S., Brnenska 4404/65a, Czech Republic ~72: CHLANDOVA, Gabriela;SPANIEL, Petr~ 33:CZ ~31:PV 2019-448 ~32:07/07/2019

2021/07720 ~ Complete ~54:INSULATION MATERIAL AND A METHOD FOR ITS PRODUCTION ~71:FIRST POINT A.S., Brnenska 4404/65a, Czech Republic ~72: CHLANDOVA, Gabriela;SPANIEL, Petr~ 33:CZ ~31:PV 2019-515 ~32:07/08/2019

2021/07691 ~ Complete ~54:METHODS OF DIAGNOSING AND TREATING BASED ON SITE-SPECIFIC TAU PHOSPHORYLATION ~71:WASHINGTON UNIVERSITY, One Brookings Drive, St. Louis, Missouri, 63130, United States of America ~72: ERIC MCDADE;NICOLAS BARTHELEMY;RANDALL JOHN BATEMAN~ 33:US ~31:62/666,504 ~32:03/05/2018;33:US ~31:62/666,509 ~32:03/05/2018

2021/07701 ~ Complete ~54:PREPARATION OF SUBSTITUTED PYRAZOLES AND THEIR USE AS ANTHRANILAMIDES PRECURSORS ~71:Adama Makhteshim Ltd., P.O. Box 60, BEER-SHEVA 8410001, ISRAEL, Israel ~72: BAR-NAHUM, Itsik;LI, Jie;YACOVAN, Avihai;ZELL, Thomas~ 33:CN ~31:201910317694.4 ~32:19/04/2019

2021/07697 ~ Complete ~54:IDENTIFICATION OF HOST CELL PROTEINS ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: CHEN, I-Hsuan;LI, Ning;XIAO, Hui~ 33:US ~31:62/835,065 ~32:17/04/2019

2021/07718 ~ Complete ~54:PLASTER TREATMENT COMPOUND ~71:FIRST POINT A.S., Brnenska 4404/65a, Czech Republic ~72: CHLANDOVA, Gabriela;SPANIEL, Petr~ 33:CZ ~31:PV 2019-512 ~32:06/08/2019

2021/07687 ~ Complete ~54:HEART VALVE SEALING DEVICES AND DELIVERY DEVICES THEREFOR ~71:Edwards Lifesciences Corporation, One Edwards Way, Legal Department, IRVINE 92614, CA, USA, United States of America ~72: DELGADO, Sergio;DIXON, Eric Robert;FRESCHAUF, Lauren R.;METCHIK, Asher L.;SIEGEL, Alexander J.;SOK, Sam;TAYLOR, David M.;TYLER II, Gregory Scott;WINSTON, Matthew~ 33:US ~31:62/486,835 ~32:18/04/2017;33:US ~31:62/504,389 ~32:10/05/2017;33:US ~31:62/555,240 ~32:07/09/2017;33:US ~31:62/571,552 ~32:12/10/2017

2021/07699 ~ Complete ~54:COMPUTER IMPLEMENTED METHOD AND SYSTEM FOR KNOWLEDGE PROOF IN BLOCKCHAIN TRANSACTIONS ~71:nChain Holdings Limited, Fitzgerald House, 44 Church Street, ST. JOHN'S, ANTIGUA & BARBUDA, Antigua and Barbuda ~72: MACKAY, Alexander Tennyson;WRIGHT, Craig Steven;ZHANG, Wei~ 33:GB ~31:1905198.6 ~32:12/04/2019

2021/07675 ~ Complete ~54:PORTABLE CERVICAL VERTEBRA AND SHOULDER CIRCUMFERENCE MASSAGE DEVICE ~71:Chongqing Medical and Pharmaceutical College, No. 82, Middle University Town Road, Shapingba District, Chongqing, 401331, People's Republic of China ~72: CHENG, Yuanhui;PENG, Jing;WANG, Xin;WU, Xia;XIAO, Xiang~

2021/07678 ~ Complete ~54:METHOD FOR PREPARING LITHIUM TRI-TERT-BUTOXYALYMINIUM HYDRIDE-TETRAHYDROFURAN SOLUTION ~71:ZHUANG, Yingjun, Specialized and New Company, Fine Chemical Park, Lanzhou New District, Lanzhou City, Gansu Province, People's Republic of China ~72: ZHUANG, Yingjun~

2021/07694 ~ Complete ~54:ECOLOGICAL ARTIFICIAL REEF CONCRETE USING MULTIPLE SOLID WASTES AND PREPARATION METHOD THEREOF ~71:QINGDAO AGRICULTURAL UNIVERSITY, 700 Changcheng Road, Chengyang District, Qingdao, Shandong, 266109, People's Republic of China ~72: QUAN, Hongzhu~ 33:CN ~31:202110225346.1 ~32:01/03/2021

2021/07705 ~ Complete ~54:COMPOUND FOR REINFORCING SURFACE TREATMENT ~71:FIRST POINT A.S., Bmenska 4404/65a, Czech Republic ~72: CHLANDOVA, Gabriela;SPANIEL, Petr~ 33:CZ ~31:PV2019-508 ~32:06/08/2019

2021/07707 ~ Complete ~54:INSULATING MATERIAL AND METHOD FOR ITS PRODUCTION ~71:FIRST POINT A.S., Brnenska 4404/65a, Czech Republic ~72: CHLANDOVA, Gabriela;SPANIEL, Petr~ 33:CZ ~31:PV 2019-445 ~32:05/07/2019

2021/07711 ~ Complete ~54:CYSTIC FIBROSIS TRANSMEMBRANE CONDUCTANCE REGULATOR MODULATING AGENTS ~71:VERTEX PHARMACEUTICALS INCORPORATED, 50 Northern Avenue, Boston, Massachusetts, 02210, United States of America ~72: ALEXANDER RUSSELL ABELA;ALINA SILINA;BRYAN A FRIEMAN;COREY DON ANDERSON;JACLYN CHAU;JASON MCCARTNEY;JEREMY CLEMENS;JINGLAN ZHOU;JOHNNY UY;MARK THOMAS MILLER;PAUL KRENITSKY;PETER (DECEASED) GROOTENHUIS;SARA SABINA HADIDA RUAH;SUNNY ABRAHAM;THOMAS CLEVELAND;TIMOTHY A DWIGHT;VIJAYALAKSMI ARUMUGAM;VITO MELILLO;YOSHIHIRO ISHIHARA~ 33:US ~31:62/828,699 ~32:03/04/2019

2021/07719 ~ Complete ~54:COATING COMPOSITION AND METHOD OF ITS APPLICATION ~71:FIRST POINT A.S., Brnenska 4404/65a, Czech Republic ~72: CHLANDOVA, Gabriela;SPANIEL, Petr~ 33:CZ ~31:PV 2019-449 ~32:07/07/2019

- APPLIED ON 2021/10/13 -

2021/07736 ~ Complete ~54:THERMOPLASTIC COMPOSITE FILM ~71:Shandong University, No.27 Shanda South Road, Jinan City, Shandong Province, People's Republic of China ~72: Cao Weiwei;Du Mingyuan;Qiao Kun;Qin Rongman;Sun Na;Teng Linghong;Wang Dongzhe;Zhu Bo~

2021/07728 ~ Complete
~54:UNIVERSAL METHOD FOR ASSESSING CHANGES OF REGIONAL HABITAT LANDSCAPE
~71:Xi'an Jiaotong University, No. 28, West Xianning Road, Xi'an City, Shaanxi Province, People's Republic of China ~72: Li Huiwen;Sun Yuzhu;Wang Fan;Wu Yiping;Zhao Wenzhi~

2021/07750 ~ Complete ~54:COATED GRANULAR FERTILIZERS, METHODS OF MANUFACTURE THEREOF, AND USES THEREOF ~71:SABIC Global Technologies B.V., Plasticlaan 1, BERGEN OP ZOOM NL-4612 PX, THE NETHERLANDS, Netherlands ~72: HAIGH, James;HARPER, Travis;KANAGALINGAM, Sabeshan;KANNAN, Ganesh;POSADA, Christina~ 33:US ~31:62/255,669 ~32:16/11/2015;33:US ~31:62/415,825 ~32:01/11/2016

2021/07730 ~ Complete ~54:PISTON INSERT RING MEASURING AND FEEDING DEVICE ~71:Qingdao University of Science and Technology, No.99 Songling Road, Laoshan District, Qingdao City, Shandong Province, People's Republic of China ~72: Liu Jiangsheng;Qian Juan~

2021/07741 ~ Complete ~54:ULTRA-HIGH VOLTAGE FIBER COMPOSITE CORE OVERHEAD CONDUCTOR ~71:Shandong University, No.27 Shanda South Road, Jinan City, Shandong Province, People's Republic of China ~72: Gao Xueping;Liu Bing;Liu Yulan;Qiao Kun;Wang Yongwei;Yu Junwei;Zhu Bo~

2021/07727 ~ Complete ~54:DRAINAGE FITTING ~71:VAN ZYL, Vincent Vernon, 4 Dead End Road, South Africa ~72: VAN ZYL, Vincent Vernon~

2021/07729 ~ Complete ~54:THREE-DIMENSIONAL STRUCTURE STITCHBONDING FORMING DEVICE AND STITCHBONDING FORMING METHOD ~71:Shandong University, No.27 Shanda South Road, Jinan City, Shandong Province, People's Republic of China ~72: Cao Weiwei;Qiao Kun;Wang Yongwei;Zhang Min;Zhu Bo~

2021/07733 ~ Complete ~54:PISTON INSERT RING MEASURING LINE ~71:Qingdao University of Science and Technology, No.99 Songling Road, Laoshan District, Qingdao City, Shandong Province, People's Republic of China ~72: Liu Jiangsheng;Qian Juan~

2021/07738 ~ Complete ~54:USE OF OSBZR1 GENE AND ENCODED PROTEIN IN REGULATING RESISTANCE TO RICE SHEATH BLIGHT ~71:Shenyang Agricultural University, 120 Dongling Road, Shenhe District, Shenyang, Liaoning, 110866, People's Republic of China ~72: GAO, Yue;LI, Tianya;MEI, Qiong;QIU, Yongchun;SUN, Qian;WU, Xianxin;XUAN, Yuanhu~ 33:CN ~31:202110207784.5 ~32:24/02/2021

2021/07749 ~ Complete ~54:METHOD FOR DIRECTLY SEPARATING WOOD VINEGAR AND WOOD TAR ON-LINE ~71:Northwest A and F University, Northwest A and F University, No.3, Taicheng Road, Yangling Demonstration Zone, Xianyang City, Shaanxi Province, 712100, People's Republic of China ~72: YIN, Danyue;ZHENG, Jilu;ZHU, Mingqiang~ 33:CN ~31:202011110044.1 ~32:16/10/2020

2021/07756 ~ Complete ~54:GREEN ENERGY EMPOWERED AUTOMATED SOIL PROFILE MEASUREMENT AND LAWN WATERING SYSTEM USING IOT ~71:ABBAS, Ali, Department of Electronics and Communication, University of Allahabad, Prayagraj, India;MISHRA, Devesh, Department of Electronics and Communication, University of Allahabad, Prayagraj, India;MISHRA, Piyush Kumar, Department of Electronics and Communication, University of Allahabad, Prayagraj, India;PANDEY, Amrees, Department of Electronics and Communication, University of Allahabad, Prayagraj, India;TRIPATHI, Devesh, Department of Electronics and Communication, University of Allahabad, Prayagraj, People's Republic of China;YADAV, Vandana, Department of Electronics and Communication, University of Allahabad, Prayagraj, India ~72: ABBAS, Ali;MISHRA, Devesh;MISHRA, Piyush Kumar;PANDEY, Amrees;TRIPATHI, Devesh;YADAV, Vandana~

2021/07759 ~ Complete ~54:CD19 BINDING MOLECULES AND USES THEREOF ~71:NOVARTIS AG, Lichtstrasse 35, Switzerland ~72: CEBE, Regis;CHELUR, Dattananda;GRANDA, Brian;HONG, Connie;JANG, Sunyoung;LU, Haihui;RAYO, Amy~ 33:US ~31:62/850,901 ~32:21/05/2019;33:US ~31:62/854,695 ~32:30/05/2019

2021/07761 ~ Complete ~54:SOLID FORMS OF A GLYT1 INHIBITOR ~71:BOEHRINGER INGELHEIM INTERNATIONAL GMBH, Binger Strasse 173, Germany ~72: GAO, Joe Ju;SIEGER, Peter;YANG, Bing-Shiou~ 33:US ~31:62/841,401 ~32:01/05/2019

2021/07771 ~ Complete ~54:A PROCESS AND APPARATUS FOR ACID MINE DRAINAGE TREATMENT ~71:ENGINEER ROOM INFRASTRUCTURE CONSULTING PTY LTD, 791 Maleny-Stanley River Road, Wootha, Australia ~72: THOMPSON BREWSTER, Emma~ 33:AU ~31:2019900984 ~32:25/03/2019

2021/07773 ~ Complete ~54:TRACK-BUILDING MACHINE AND METHOD FOR TAMPING A TRACK ~71:PLASSER & THEURER EXPORT VON BAHNBAUMASCHINEN GESELLSCHAFT M.B.H.,

Johannesgasse 3, 1010, Wien, Austria ~72: JOHANNES MAX-THEURER;SAMUEL WOLLANEK~ 33:AT ~31:A 194/2019 ~32:23/05/2019

2021/07775 ~ Complete ~54:DISPENSER FOR DISPENSING ELONGATE BEVERAGE CONTAINERS ~71:CUULA GMBH, Probusgasse 1, 1190, Wien, Austria ~72: KURT HOFER;WERNER WOLF~ 33:AT ~31:A 50366/2019 ~32:23/04/2019

2021/07757 ~ Complete ~54:MODULAR ROOF MOUNTED COOLING SYSTEM AND METHOD FOR DATA CENTER ~71:VERTIV CORPORATION, 1050 Dearborn Drive, United States of America ~72: GJURANIC, Zeljko;JANKOVIC, Zvonimir;RAIC, Karlo Bozo;RANCIC, Denis~ 33:US ~31:16/392,199 ~32:23/04/2019

2021/07763 ~ Complete ~54:SYSTEM AND METHOD FOR DETECTING GLASS CERAMIC ~71:Saint-Gobain Isover, Tour Saint-Gobain, 12 Place de l'Iris, COURBEVOIE 92400, FRANCE, France;Verallia Packaging, Tour CARPE DIEM, 31 Place des Corolles, Esplanade Nord, COURBEVOIE 92400, FRANCE, France ~72: CHENNEVIERE, Hugues;OUERGHEMMI, Ezzeddine~ 33:FR ~31:1904246 ~32:19/04/2019

2021/07765 ~ Complete ~54:PYROLYSIS METHOD AND REACTOR FOR RECOVERING SILICA FROM POLYMER WASTE MATERIAL ~71:Microwave Solutions GmbH, Lärcherstrasse 50, RIEHEN 4125, SWITZERLAND, Switzerland ~72: ROSSOUW, Mathys Johannes;STAPELA, Annelie~ 33:CH ~31:CH00342/19 ~32:19/03/2019

2021/07769 ~ Complete ~54:METHODS AND COMPOSITIONS FOR TARGETED PROTEIN DEGRADATION ~71:Ranok Therapeutics (Hangzhou) Co., Ltd., Suite 1005, Building 1, 501 2nd Avenue, Hangzhou Eco-Tech, Development Area, HANGZHOU 310000, ZHEJIANG, CHINA (P.R.C.), People's Republic of China ~72: FOLEY, Kevin;YE, Long;YING, Weiwen~ 33:IB ~31:2019/081919 ~32:09/04/2019

2021/07772 ~ Complete ~54:CONTINUOUS FLUID FLOW POWER GENERATOR ~71:CUMMINGS, Michael, Scot, 750 Palmgreen Lane,, United States of America ~72: CUMMINGS, Michael, Scot~

2021/07779 ~ Complete ~54:METHOD AND SYSTEM FOR PLAYING MEDIA CONTENT IN TELECOMMUNICATION NETWORK ~71:JUNEJA, Rajvir Singh, Flat no GH 3/9A, Gurgaon One complex, Sector 22, Gurgaon, Haryana, 122015, India;NANGIA, Rajender Kumar, C-43, Jangpura - B, New Delhi, 110014, India;PATHAK, Santosh, 192, SFS Flats, Mukherji Apartments, Delhi, 110009, India ~72: JUNEJA, Rajvir Singh;NANGIA, Rajender Kumar;PATHAK, Santosh~ 33:IN ~31:201911022264 ~32:05/06/2019

2021/07724 ~ Provisional ~54:PIPE CLAMP ~71:UNIQUE VENTILATION AND SUPPORT SYSTEMS (PROPRIETARY) LIMITED, 1 Resnick Street, Factoria, 1739, South Africa ~72: CORNELIUS NICOLAAS SWART~

2021/07731 ~ Complete ~54:METHOD FOR PREPARING ALUMINUM-SCANDIUM MASTER ALLOY BY USING CHLORIDE-OXIDE SYSTEM MOLTEN SALT ELECTROLYSIS ~71:Jiangxi University of Science and Technology, No.1180, Shuang Gang East Street, Changbei Development Zone, Nanchang City, Jiangxi Province, People's Republic of China ~72: Dong Xueshu;Huang Qianlin;Li Liangxing;Yang Jingwei;Zhu Zhicheng~

2021/07735 ~ Complete ~54:ACTIVE POWER REGULATION METHOD AND DEVICE FOR WIND TURBINES BASED ON WIND SPEED MEASUREMENT IN ADVANCE ~71:Central South University, No.932 South Lushan Road, Yuelu District, Changsha City, Hunan Province, 410083, People's Republic of China ~72: Dong Mi;Song Dongran;Su Mei;Sun Yao;Yang Jian~

2021/07748 ~ Complete ~54:METHOD AND SYSTEM FOR ANALYZING SEISMIC ACTIVE FIELD BASED ON EXPANSION OF EMPIRICAL ORTHOGONAL FUNCTION ~71:Earthquake Agency of Ningxia Hui Autonomous

Region, No. 244, Beijing East Road, Xingqing District, Yinchuan City, Ningxia Hui Autonomous Region, 750001, People's Republic of China ~72: DING, Fenghe;LUO, Guofu;LUO, Hengzhi;MA, Heqing;MA, Xiaojun;XU, Xiaoqing;YANG, Mingzhi;ZENG, Xianwei;ZHU, Pengtao~ 33:CN ~31:202011108712.7 ~32:16/10/2020

2021/07767 ~ Complete ~54:INJECTABLE PHARMACEUTICAL COMPOSITIONS AND USES THEREOF ~71: Intervet International B.V., Wim de Körverstraat 35, BOXMEER 5831 AN, THE NETHERLANDS, Netherlands ~72: CARRILLO, Brian;FREEHAUF, Keith;GUERINO, Frank;KULCZAR, Christopher D.;VALLE COLON, Brenda L.~ 33:US ~31:62/842709 ~32:03/05/2019

2021/07834 ~ Provisional ~54:ROAD SAFETY APP ~71:DELIGHT PHEFADU, A409 PLATINUM PLACE, 32 VAN BEEK STREET, South Africa;MOGOMOTSI BOITSE, A409 PLATINUM PLACE, 32 VAN BEEK STREET, South Africa ~72: DELIGHT PHEFADU;MOGOMOTSI BOITSE~

2021/07835 ~ Complete ~54:PRC2 INHIBITORS ~71:MIRATI THERAPEUTICS, INC., 9393 TOWNE CENTRE DR., SUITE 200, SAN DIEGO, CA 92121, United States of America ~72: ARORA, NIDHI;BOBINSKI, THOMAS P;BURNS, AARON CRAIG;CHRISTENSEN, JAMES GAIL;KETCHAM, JOHN MICHAEL;LEE, MATTHEW RANDOLPH;MARX, MATTHEW ARNOLD~ 33:US ~31:62/624,176 ~32:31/01/2018;33:US ~31:62/672,701 ~32:17/05/2018;33:US ~31:62/747,736 ~32:19/10/2018

2021/07751 ~ Complete ~54:CLOSED BOTTOM VAPORIZER POD ~71:RYAN DANIEL SELBY, 232 East 43rd Avenue, Vancouver, British Columbia, V5W 1T2, Canada;RYAN KARKAIRAN, 4596 Windsor Street, Vancouver, British Columbia, V5V 4P7, Canada ~72: RYAN DANIEL SELBY;RYAN KARKAIRAN~ 33:US ~31:62/473,154 ~32:17/03/2017

2021/07762 ~ Complete ~54:METHOD FOR TREATING COTTON ~71:The Procter & Gamble Company, One Procter & Gamble Plaza, CINCINNATI 45202, OH, USA, United States of America ~72: LANT, Neil Joseph~ 33:EP ~31:19163003.7 ~32:14/03/2019

2021/07766 ~ Complete ~54:PYROLYSIS OF POLYMER WASTE MATERIALS ~71: Microwave Solutions GmbH, Lörcherstrasse 50, RIEHEN 4125, SWITZERLAND, Switzerland ~72: ROSSOUW, Mathys Johannes;STAPELA, Annelie~ 33:CH ~31:00342/19 ~32:19/03/2019

2021/07743 ~ Complete ~54:ELASTIC FINGER CLAMPING DEVICE AND CLAMPING FORCE CALCULATION METHOD THEREOF ~71: Taiyuan University of Technology, No.79 West Street Yingze, Taiyuan, Shanxi, People's Republic of China ~72: Gao Guijun;Li Xuefan;Niu Xiaofeng;Wang Yan~

2021/07760 ~ Complete ~54:COMBINATION OF PD-1 INHIBITORS AND LAG-3 INHIBITORS FOR ENHANCED EFFICACY IN TREATING CANCER ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: KROOG, Glenn;SIMS, Tasha, N.~ 33:US ~31:62/847,068 ~32:13/05/2019

2021/07770 ~ Complete ~54:METHODS FOR TREATMENT OF SUBJECTS WITH PSORIATIC ARTHRITIS ~71:SUN PHARMACEUTICAL INDUSTRIES LIMITED, Sun House, Plot No. 201 B/1, India ~72: GANORKAR, Kirti Wardhaman;RAGHAVAN, Anil;RAUT, Atul Mathuradas;YAO, Siu-Long~ 33:IN ~31:201921015050 ~32:15/04/2019;33:IN ~31:202021004422 ~32:31/01/2020

2021/07774 ~ Complete ~54:DISPENSER FOR DISPENSING ELONGATE BEVERAGE CONTAINERS ~71:CUULA GMBH, Probusgasse 1, 1190, Wien, Austria ~72: KURT HOFER;WERNER WOLF~ 33:AT ~31:A 50368/2019 ~32:23/04/2019

2021/07723 ~ Provisional ~54:SYNTHESIS OF DERIVATIVES OF SIPHONCHILONE AND THERAPEUTIC USE THEREOF ~71:UNIVERSITY OF PRETORIA, Corner Lynnwood Road and Roper Street Hatfield 0002, Pretoria, Gauteng, South Africa ~72: LUKE INVERNIZZI;PHANANKOSI MOYO;VINESH MAHARAJ~

2021/07752 ~ Complete ~54:METHOD AND SYSTEM FOR ANALYZING NATURE RESERVE PROTECTION GAPS ~71:EAST CHINA INVENTORY AND PLANNING INSTITUTE, NATIONAL FORESTRY AND GRASSLAND ADMINISTRATION, No. 3311, Deshengdong Road, People's Republic of China ~72: CHEN, Huochun;FU, Yu;HU, Xunyu;LIU, Daoping;LIU, Jun;LOU, Yi;QIAN, Yifan;ZHANG, Xianwu~ 33:CN ~31:CN202011320949.1 ~32:23/11/2020

2021/07758 ~ Complete ~54:METHOD FOR THE EXPANSION AND DIFFERENTIATION OF T LYMPHOCYTES AND NK CELLS IN ADOPTIVE TRANSFER THERAPIES ~71:CENTRE HOSPITALIER UNIVERSITAIRE VAUDOIS, RUE DU BUGNON 21, CH-1011 LAUSANNE, SWITZERLAND, Switzerland;CENTRO DE INMUNOLOGIA MOLECULAR, CALLE 216 Y 15, ATABEY, PLAYA, LA HABANA, HABANA 11600, CUBA, Cuba;LUDWIG INSTITUTE FOR CANCER RESEARCH LTD, STADELHOFFSTRASSE 22, 8001 ZURICH, SWITZERLAND, Switzerland;UNIVERSITY OF LAUSANNE, QUARTIER UNIL-CENTRE, BATIMENT UNICENTRE, 1015 LAUSANNE, SWITZERLAND, Switzerland ~72: CORREA OSORIO, Ángel de Jesús;COUKOS, George;CRIBIOLI, Elisabetta;IRVING, Melita;LEÓN MONZÓN, Kalet;MONTALVO BEREAU, Galia Magela;ORTIZ MIRANDA, Yaquelin~ 33:CU ~31:2019-0021 ~32:15/03/2019

2021/07781 ~ Provisional ~54:COMMUNI*CARE GLOVE SENSOR ~71:Netshidzati Mashudu Lucky, 727/3, Soshanguve, Block VV,, South Africa ~72: Netshidzati Mashudu Lucky~

2021/07732 ~ Complete ~54:PISTON INSERT RING MEASURING SYSTEM ~71:Qingdao University of Science and Technology, No.99 Songling Road, Laoshan District, Qingdao City, Shandong Province, People's Republic of China ~72: Liu Jiangsheng;Qian Juan~

2021/07742 ~ Complete ~54:NEW TYPE OF AUTOMATIC VULCANIZATION UNIT WITH WRAPPING BELT ~71:Qingdao University of Science & Technology, No.99 Songling Road, Laoshan district, Qingdao city, Shandong province, People's Republic of China ~72: Ge Guoqiang;Liu Huanyi;Song Lirong;Zhang Fuxia;Zhang Weifeng~

2021/07778 ~ Complete ~54:PROTEINS WITH CARDIOPROTECTIVE ACTIVITY ~71:INTERNATIONAL CENTRE FOR GENETIC ENGINEERING AND BIOTECHNOLOGY (ICGEB), AREA Science Park, Padriciano 99, 34149 , Trieste, Italy ~72: FRANCESCA BORTOLOTTI;GIULIA RUOZI;MAURO GIACCA~ 33:GB ~31:1906052.4 ~32:30/04/2019

2021/07780 ~ Complete ~54:METHOD AND SYSTEM FOR PLAYING PROMOTION MEDIA CONTENT IN TELECOMMUNICATION NETWORK ~71:JUNEJA, Rajvir Singh, Flat no GH 3/9A, Gurgaon One complex, Sector 22, Gurgaon, Haryana, 122015, India;NANGIA, Rajender Kumar, C-43, Jangpura - B, New Delhi, 110014, India;PATHAK, Santosh, 192, SFS Flats, Mukherji Apartments, Delhi, 110009, India ~72: JUNEJA, Rajvir Singh;NANGIA, Rajender Kumar;PATHAK, Santosh~ 33:IN ~31:201911015162 ~32:16/04/2019

2021/07725 ~ Provisional ~54:AN ELECTRONIC PLATFORM FOR PROCESSING THE SUPPLY AND PURCHASE OF COMMODITIES ~71:Grains For Africa Proprietary Limited, 3 17th Street, Orange Grove, South Africa ~72: Joshua Abraham Amoils~

2021/07734 ~ Complete ~54:AED SYSTEM WITH REMOTE CALL RESCUE GUIDANCE FUNCTION ~71:North China University of Science and Technology, 21 Bohai Road, Caofeidian Xincheng, Tangshan, Hebei, 063210, People's Republic of China ~72: BO, Haimei;CHENG, Guang;WANG, Ling;XING, Fengmei;ZHAO, Jihua~ 33:CN ~31:202110923598.1 ~32:12/08/2021

2021/07740 ~ Complete ~54:BLACK FILM UNWINDING AND MULCHING APPARATUS FOR BLACK-FILM WEEDS SHIELDING IN RICE PLANTING ~71:Zhejiang Yiligu Agricultural Science and Technology Co., Ltd., 1 Lijing, Zhiguo Village, Weitang Street, Jiashan County, Zhejiang, People's Republic of China ~72: CHEN, Yiping;HUANG, Yaoliang;LI, Hanqiong;LU, Xuefeng;SUN, Jun;XU, Dan;XU, Yongchao;YING, Xiao~

2021/07746 ~ Complete ~54:PREPARATION PROCESS OF LIGHTWEIGHT COATED PAPER AND COATING FOR COATING SAME ~71:Puyang Long Feng Paper Co., Ltd., West Shengli Road, Puyang City, Henan Province, 457001, People's Republic of China ~72: CHEN, Dezhong;FENG, Dongwang;FENG, Yihao;HUA, Chunfeng;JIN, Qiang;LI, Xiaodong;LI, Xiaogin;LI, Xingwei;LIU, Fulei;LIU, Gangbiao;LIU, Xin;LV, Shefang;SHAO, Genbo;SHI, Juan;SUN, Huibin;WEI, Jiguo;YAN, Zhanwei;ZHAO, Jiuhui~

2021/07754 ~ Complete ~54:A NOVEL PROTEIN EXPRESSION SYSTEM IN SACCHAROMYCES CEREVISIAE AND APPLICATION THEREOF ~71:QILU UNIVERSITY OF TECHNOLOGY, 3501 University Road, Changqing District, Shandong Province, People's Republic of China ~72: BAO, Xiaoming;LI, Zailu;WANG, Yun;XIA, Tianqing;XU, Lili~

2021/07777 ~ Complete ~54:VORUCICLIB POLYMORPHS AND METHODS OF MAKING AND USING THEREOF ~71:MEI PHARMA, INC., 3611 Valley Centre Drive Suite 500 , San Diego , California, 92130, United States of America ~72: DAVID FRANK DUNCAN~ 33:US ~31:62/832,637 ~32:11/04/2019

2021/07737 ~ Complete ~54:APPARATUS FOR PROCESSING PHOTOELECTRIC DISPLAY THIN FILM DEVICE ~71:West Anhui University, Moon Island, West of Yunluqiao, Lu~39;an City, Anhui Province, 237012, People's Republic of China ~72: CHENG, Bao'an;FANG, Jie;KONG, Min;LIU, Xiangyuan;ZHANG, Bo;ZHAO, Minfu~ 33:CN ~31:202011340021.X ~32:25/11/2020

2021/07744 ~ Complete ~54:FERMENTATION METHOD OF CORN STALK, FERMENTED CORN STALK PREPARED BY THE METHOD AND ITS APPLICATION ~71:Qingdao Agriculture University, No.700 Changcheng Road, Chengyang District, Qingdao, Shandong, People's Republic of China ~72: Guo Liping;Tang Juan;Yang Qingli;Yu Chundi;Zhao Haiyan~

2021/07753 ~ Complete ~54:SALINE-ALKALI TOLERANT TRICHODERMA VIRIDE TV-1511 AND BIO-ORGANIC FERTILIZER AND APPLICATION THEREOF ~71:BEIJING INSTITUTE OF TECHNOLOGY, No. 5 South Zhongguancun Street, Haidian District, People's Republic of China;BIOLOGY INSTITUTE OF SHANDONG ACADEMY OF SCIENCES, No. 19 Keyuan Road, Lixia District, Jinan, People's Republic of China;GOLDEN STAR (RIZHAO) AGRICULTURAL SCIENCE AND TECHNOLOGY DEVELOPMENT CO., LTD., Yujia Village, Bikuo Town, Lanshan District, Rizhao, People's Republic of China;SHANDONG JIELIER FERTILIZER CO., LTD, No. 9, Zhongxing Avenue, Yicheng District, Zaozhuang City, People's Republic of China;SHANDONG ZHONGKE FOOD CO., LTD, Wennan Industrial Park, Xintai City, People's Republic of China;YANTAI DADI HUSBANDRY CO., LTD., No. 48 Bicheng Industrial Park, Haiyang City, Yantai, People's Republic of China ~72: CHU, Huanhuan;FU, Changzheng;GUO, Kai;HAO, Yongren;HUANG, Yanhua;HUO, Xuexue;HUO, Yixin;LI, Zhe;LIU, Kuizhu;MA, Xiaoyan;WANG, Aifeng;WANG, Qingling;ZHANG, Hao;ZHENG, Zehui~ 33:CN ~31:202011428492.6 ~32:09/12/2020

2021/07768 ~ Complete ~54:NOVEL INDOLE-2-CARBOXAMIDES ACTIVE AGAINST THE HEPATITIS B VIRUS (HBV) ~71:AiCuris GmbH & Co. KG, Friedrich-Ebert-Stra~223;e 475, WUPPERTAL 42117, GERMANY, Germany ~72: BONSMANN, Susanne;DONALD, Alastair;KLENKE, Burkhard;SPRINGER, Jasper;URBAN, Andreas~ 33:EP ~31:19172005.1 ~32:30/04/2019;33:EP ~31:19172398.0 ~32:02/05/2019

2021/07745 ~ Complete ~54:METHOD FOR PROCESSING CADMIUM-REMOVAL CUTTLEFISH SAUCE ~71:Sanmenxia Moyuanwai Food Co., Ltd., No.06, 1st Floor, Building 3, Longji Enterprise Park, Weiliu Road,

Industrial Cluster District, Sanmenxia City, Henan Province, 472100, People's Republic of China ~72: CHEN, Xiao~;FANG, Xubo;YUAN, Liping~

2021/07764 ~ Complete ~54:METHOD FOR DETECTING GLASS-CERAMIC MATERIALS ~71:Saint-Gobain Isover, Tour Saint-Gobain, 12 Place de l'Iris, COURBEVOIE 92400, FRANCE, France;Verallia Packaging, Tour CARPE DIEM, 31 Place des Corolles, Esplanade Nord, COURBEVOIE 92400, FRANCE, France ~72: CHENNEVIÈRE, Hugues;OUERGHEMMI, Ezzeddine~ 33:FR ~31:1904247 ~32:19/04/2019

2021/07739 ~ Complete ~54:HYDROPHOBIC DUAL-LIGAND METAL-ORGANIC FRAMEWORK (MOF) AND PREPARATION METHOD AND USE THEREOF IN ADSORPTION OF VOLATILE ORGANIC COMPOUND (VOC) ~71:Shandong University, No. 17923, Jingshi Road, Lixia District, Jinan City, Shandong Province, 250061, People's Republic of China ~72: LI, Wenxiang;MA, Xiaoling;MAO, Yanpeng;SONG, Zhanlong;SUN, Jing;WANG, Wenlong;ZHAO, Xiqiang~ 33:CN ~31:202110402063.X ~32:14/04/2021

2021/07747 ~ Complete ~54:UNMANNED FOOD DELIVERY DEVICE IN CABIN AND USE METHOD THEREOF ~71:Shandong University of Science and Technology, No. 579 Qianwangang Road, Economic & Technical Development Zone, Qingdao, Shandong Province, 266590, People's Republic of China ~72: Chen Hong;Guan Yihao;Hou Tianyou;Jia Shun;Jie Xiaoming;Ma Le;Min Xiangpeng;Su Shengshuai;Wang Shang;Yang Yang;Zhang Jingyan;Zhao Jiali;Zhou Guangfeng~

2021/07755 ~ Complete ~54:ENERGY-SAVING AND ENVIRONMENT-FRIENDLY RICE AND FISH CO-CULTURE SYSTEM AND METHOD ~71:FRESHWATER FISHERIES RESEARCH CENTER, CHINESE ACADEMY OF FISHERY SCIENCES, No. 9 Shanshui East Road, Wuxi, Jiangsu Province, People's Republic of China ~72: HOU, Yiran;LI, Bing;WANG, Long;XU, Gangchun;ZHU, Jian~ 33:CN ~31:202011149364.8 ~32:23/10/2020

2021/07776 ~ Complete ~54:FOLDABLE ELECTRONIC DEVICE AND OPERATION METHOD FOR SAME ~71:SAMSUNG ELECTRONICS CO., LTD., 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea ~72: BYUNGSEOK JUNG;JEONGWON YANG;JONGWU BAEK;SEONGHOON CHOI;YONGJIN KWON~ 33:KR ~31:10-2019-0047653 ~32:24/04/2019

- APPLIED ON 2021/10/14 -

2021/07802 ~ Complete ~54:TERNARY COMPOSITE COMPONENT HIGH-EFFICIENCY ANTIMICROBIAL AND ANTIVIRAL TREATMENT AGENT, PREPARATION METHOD AND USES THEREOF ~71:Sanhe Jingna Environmental Technology Co., Ltd., Room B210, Chuangye Building, Northeast corner of Shenwei Huandao, Yingbin North Road, Yanjiao Development Zone, Sanhe City, Langfang City, Hebei Province, 065201, People's Republic of China ~72: JIANG, Hongjuan;LI, Zeguo;MA, Ying~

2021/07810 ~ Complete ~54:CRYSTAL FORM OF PHOSPHODIESTERASE INHIBITOR, PREPARATION METHOD THEREFOR AND USE THEREOF ~71:TransThera Sciences (Nanjing), Inc., Floor 3, Building 9, Phase 2 Accelerator, Biotech and Pharmaceutical Valley, Jiangbei New Area, NANJING 210032, JIANGSU, CHINA (P.R.C.), People's Republic of China ~72: LI, Lin;WAN, Zhonghui~ 33:CN ~31:201910199611.6 ~32:15/03/2019;33:CN ~31:201910228418.0 ~32:25/03/2019;33:CN ~31:201910789020.4 ~32:26/08/2019

2021/07813 ~ Complete ~54:ASSAY APPARATUSES, METHODS AND REAGENTS INCLUDING DEVICES AND METHODS FOR REDUCING CROSSTALK BETWEEN CCD MEASUREMENTS ~71:Meso Scale Technologies, LLC., 1601 Research Boulevard, ROCKVILLE 20850, MD, USA, United States of America ~72: CLINTON, Charles M.;KOCHAR, Manish;KOVACS, Sandor;KRIVOY, Gary I.;LEIMKUEHLER, Aaron;TABAKIN, Leo;VANDERDARL, Jules;WILLOUGHBY, Jon;ZIMMERMAN, Cecilia~ 33:US ~31:62/837,567 ~32:23/04/2019

2021/07784 ~ Complete ~54:CABLE RETRACTING DEVICE AND SYSTEM ~71:WENTZEL, Simon Henry, Unit 127 Manor Park, 26 Pongola Avenue, Randpark Ridge Ext 41, South Africa ~72: WENTZEL, Simon Henry~ 33:ZA ~31:2020/06333 ~32:13/10/2020

2021/07791 ~ Complete ~54:METHOD FOR EFFICIENTLY RECOVERING ARSENIC, ANTIMONY AND BISMUTH FROM COPPER ANODE SLIME IN STEPS ~71:Jiangxi University of Science and Technology, No.86 Hongqi Avenue, Ganzhou City, Jiangxi Province, People's Republic of China ~72: Jiao Yunfen;Liao Chunfa;Nie Huaping;Zeng Yanliang~

2021/07794 ~ Complete ~54:COMPOSITE ACTIVATED POROUS CARBON MATERIAL AND PREPARATION METHOD AND APPLICATION THEREOF ~71:Shandong University, No.27, Shanda South Road, Jinan City, Shandong Province, People's Republic of China ~72: Di Chengrui;Qiao Kun;Yu Junwei;Yu Liyuan;Zhang Min;Zhang Ye;Zhu Bo~

2021/07799 ~ Complete ~54:PHOTOELECTRIC SMOKE DETECTOR FOR AIRCRAFT CARGO COMPARTMENT ~71:Civil Aviation Flight University of China, No. 46, Section 4, Nanchang Road, Deyang City, Sichuan Province, 618307, People's Republic of China ~72: DENG, Li;HE, Yuanhua;LIU, Quanyi;WANG, Haibin;WANG, Kang;ZHU, Bo~

2021/07819 ~ Complete ~54:MODULATORS OF MAS-RELATED G-PROTEIN RECEPTOR X4 AND RELATED PRODUCTS AND METHODS ~71:Escient Pharmaceuticals, Inc., 10578 Science Center Drive, Suite 250, SAN DIEGO 92121, CA, USA, United States of America ~72: BOEHM, Marcus;HUANG, Liming;MARTINBOROUGH, Esther;SAINZ, Marcos;SEFRIDGE, Brandon;YEAGER, Adam~ 33:US ~31:62/825,741 ~32:28/03/2019;33:US ~31:62/849,095 ~32:16/05/2019;33:US ~31:62/864,306 ~32:20/06/2019;33:US ~31:62/938,277 ~32:20/11/2019;33:US ~31:62/955,967 ~32:31/12/2019;33:US ~31:62/959,799 ~32:10/01/2020

2021/07821 ~ Complete ~54:BISPECIFIC ANTIBODY SPECIFICALLY BOUND TO VEGF AND ANG2 ~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: HU GE;HUA YING;JINPING SHI;LANGYONG MAO;WEIKANG TAO;XIAOYING YANG~ 33:CN ~31:201910204246.3 ~32:18/03/2019

2021/07782 ~ Provisional ~54:A SYSTEM AND METHOD FOR CONDUCTING A TRANSACTION ON A DISTRIBUTED LEDGER TECHNOLOGY-BASED INFRASTRUCTURE ~71:HUXHAM, Horatio Nelson, 35 Bellwater Park, Kenridge, Bellville, South Africa ~72: HUXHAM, Horatio Nelson~

2021/07785 ~ Complete ~54:METHOD FOR PROSPECTING AND EXPLORATION OF CARLIN-TYPE GOLD DEPOSITS BY USING CALCITE CHARACTERISTICS ~71:Kunming University of Science and Technology, 68 Wenchang Road, 121 street, Kunming, Yunnan, People's Republic of China ~72: Chang Jinyang;Fu Hao;Li Chao;Liu Fan;Wang Jiasheng~

2021/07789 ~ Complete ~54:VERTICAL SHAFT STRAIGHT HOLE PROGRESSIVE CUT METHOD BASED ON REINFORCED CRACKING CHARGE AND SINGLE-SIDE SLIT CHARGE ~71:Anhui University of Science and Technology, No. 168 Taifeng Street, Huainan City, Anhui Province, 232001, People's Republic of China ~72: Cheng Bing;Ma Shoulong;Wang Haibo;Wang Hao;Wang Mengxiang;Zong Qi~

2021/07787 ~ Complete ~54:AN ENVIRONMENT-FRIENDLY FLAME-RETARDANT NEOPRENE MATERIAL FOR SHOES ~71:Xuzhou College of Industrial Technology, No.1 Xiangwang South Road, Gulou District, Xuzhou City, Jiangsu, People's Republic of China ~72: Chen Yang;Guowen Weng;Houluo Cong;Keyong Tang;Lei Lu;Yanan Zang;Yonggang Guo;Yunhui Xu;Zaixue Wang~

2021/07826 ~ Complete ~54:PHARMACEUTICAL PARENTERAL COMPOSITION OF DUAL GLP1/2 AGONIST
~71:ZEALAND PHARMA A/S, Sydmarken 11, DK-2860, Søborg, Denmark ~72: ALISTAIR VINCENT
GORDON EDWARDS;LISE GIEHM~ 33:EP ~31:19180233.9 ~32:14/06/2019

2021/07828 ~ Complete ~54:PLANT MESSENGER PACKS ENCAPSULATING POLYPEPTIDES AND USES
THEREOF ~71:FLAGSHIP PIONEERING INNOVATIONS VI, LLC, 55 Cambridge Parkway, 8th Floor,
Cambridge, Massachusetts, 02142, United States of America ~72: DANIEL GARCIA CABANILLAS;JOHN
PATRICK CASEY JR;MARIA HELENA CHRISTINE VAN ROOIJEN;NATALIYA VLADIMIROVNA
NUKOLOVA;SIMON SCHWIZER~ 33:US ~31:62/833,685 ~32:13/04/2019;33:US ~31:62/848,482
~32:15/05/2019

2021/07790 ~ Complete ~54:ARTIFICIAL INTELLIGENCE BASED QUALITY AND NUTRITION RATING
SYSTEM OF AGRICULTURAL PRODUCTS ~71:Chemmind Technologies (Beijing) Co, Ltd., Room 135,1F,
No.1111 Huihe South Street, Banbidian Village, Gaobeidian Township, Chaoyang District, Beijing, People's
Republic of China;Institute of Food and Nutrition Development, Ministry of Agriculture and Rural Affairs, No.12
Zhongguancun South Street, Haidian District, Beijing, People's Republic of China ~72: HAN, Di;HE, Xiaoye;LI,
Fangyan;LI, Hu;LIU, Tao;LIU, Xinyue;TIAN, Runtao;WANG, Jing;WU, Meishan;ZHU, Zijian~ 33:CN
~31:202111049289.2 ~32:08/09/2021

2021/07836 ~ Provisional ~54:PLUG-CAPACITOR ~71:Barend Delport, Unit 404 Olive Wood Village, South Africa
~72: Barend Delport~ 33:ZA ~31:0815417274 ~32:13/10/2021

2021/07800 ~ Complete ~54:EVALUATION METHOD FOR SOIL FERTILITY OF PURPLE SOIL PADDY FIELD
~71:Institute of Agricultural Resources and Environment, SAAS, Block 2, Shizishan Road, Waidong, Chengdu
City, Sichuan Province, 610066, People's Republic of China;Institute of Agricultural Resources and Regional
Planning,CAAS, Block 2, Shizishan Road, Waidong, Chengdu City, Sichuan Province, 610066, People's Republic
of China ~72: CHEN, Qingrui;FAN, Hongzhu;LI, Changke;XU, Minggang;ZHANG, Huimin;ZHANG, Xiao~

2021/07825 ~ Complete ~54:PHARMACEUTICAL PARENTERAL COMPOSITION OF DUAL GLP1/2 AGONIST
~71:ZEALAND PHARMA A/S, Sydmarken 11, DK-2860, Søborg, Denmark ~72: ALISTAIR VINCENT
GORDON EDWARDS;LISE GIEHM~ 33:EP ~31:19180233.9 ~32:14/06/2019

2021/07829 ~ Complete ~54:GOLD CONTAINING CATALYST, METHOD OF PREPARATION AND USE
~71:JOHNSON MATTHEY PUBLIC LIMITED COMPANY, 5th Floor, 25 Farrington Street, United Kingdom ~72:
CARTHEY, Nicholas;JOHNSTON, Peter~ 33:GB ~31:1908844.2 ~32:20/06/2019

2021/07792 ~ Complete ~54:INTELLIGENT TWO-DIMENSIONAL CARBON FIBER COMPOSITE PRESSURE
CYLINDER AND PREPARATION METHOD THEREOF ~71:Shandong University, No.27 Shanda South Road,
Jinan City, Shandong Province, People's Republic of China ~72: Cai Xun;Cao Weiwei;Wang Yongwei;Yu
Kuan;Zhu Bo~

2021/07798 ~ Complete ~54:SURFACE ACTIVATION TREATMENT DEVICE AND PROCESS FOR ACTIVATED
CARBON FIBER TO ADSORB HEAVY METAL IONS ~71:Shandong University, No.27 Shanda South Road,
Jinan City, Shandong Province, People's Republic of China ~72: Li Chengsen;Qiao Kun;Sun Na;Xi Chong;Yan
Shuhan;Yu Junwei;Yu Liyuan;Zhang Ye;Zhu Bo~

2021/07796 ~ Complete ~54:CIRCUIT BOARD DETECTION TOOLING ~71:Zhejiang University of Water
Resources and Electric Power, 583 Xuelin Street, Baiyang Street, Qiantang District, Hangzhou City, Zhejiang
Province, People's Republic of China ~72: Cui Jiamin;Peng Tao;Wu Xiushan;Yao Wei;Zhang Guoqin~

2021/07814 ~ Complete ~54:IONIZABLE AMINE LIPIDS AND LIPID NANOPARTICLES ~71:Intellia Therapeutics, Inc., 40 Erie Street, Suite 130, CAMBRIDGE 02139, MA, USA, United States of America ~72: LAPLACA, Derek;MAETANI, Micah;PARMAR, Rubina Giare;PELLY, Rachel;SCULLY, Stephen S.~ 33:US ~31:62/838,551 ~32:25/04/2019;33:US ~31:62/843,854 ~32:06/05/2019

2021/07823 ~ Complete ~54:4-[5-[(RAC)-1-[5-(3-CHLOROPHENYL)-3-ISOXAZOLYL]ETHOXY]-4-METHYL-4H-1,2,4-TRIAZOL-3-YL]PYRIDINE FOR USE IN PREVENTION AND/OR TREATMENT OF PAIN IN AN ANIMAL ~71:CLAES THULIN, Jakob Westinsgatan 1b, SE-112 20, Stockholm, Sweden ~72: CLAES THULIN~ 33:SE ~31:1950579-1 ~32:15/05/2019

2021/07830 ~ Complete ~54:BOTTOM STRUCTURE FOR POWDER MIXING AGITATOR, MIXING AGITATOR, AND STORAGE DEVICE ~71:YANKUANG LUNAN CHEMICALS CO., LTD., Mushi Town, Tengzhou City, Zaozhuang, People's Republic of China ~72: CAO, Lingling;CHANG, Liang;HUANG, Wenlong;MA, Yuanbin;MA, Zhenzhou;MENG, Fanchao;SHEN, Qi;TIAN, Xinwei;WANG, Guangyi;XU, Hongqiu;YANG, Juan;ZANG, Xiaochen;ZHANG, Ling;ZHANG, Wen~ 33:CN ~31:201910208529.5 ~32:19/03/2019

2021/07831 ~ Complete ~54:PROCESS ~71:JOHNSON MATTHEY DAVY TECHNOLOGIES LIMITED, 5th Floor, 25 Farringdon Street, United Kingdom ~72: ARCHIBALD, Fraser Robert;JOLLY, Robert Arthur;LOPEZ, Maria del Amo;WELCH, David Keith~ 33:GB ~31:1907659.5 ~32:30/05/2019

2021/07832 ~ Complete ~54:PYRROLE AMIDOPYRIDONE COMPOUND, PREPARATION METHOD THEREFOR AND USE THEREOF ~71:SHANGHAI RINGENE BIOPHARMA CO., LTD., Room 305, 3rd Floor, No.886 Halei Road, People's Republic of China ~72: MA, Jingui;PAN, Jianfeng;WAN, Huixin~ 33:CN ~31:201910200772.2 ~32:17/03/2019;33:CN ~31:201911073573.6 ~32:06/11/2019

2021/07808 ~ Complete ~54:CELL CULTURE MEDIUM FOR EUKARYOTIC CELLS ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: CHEN, John;GOLDEN, Nathaniel;LONEY, Theodore;SCOTT, Carolyn;XUE, Wei~ 33:US ~31:62/837,263 ~32:23/04/2019

2021/07809 ~ Complete ~54:CSFV SUBUNIT VACCINE ~71:BOEHRINGER INGELHEIM VETMEDICA (CHINA) CO., LTD., No. 299 Xiangtai Road, Taizhou, Jiangsu, People's Republic of China ~72: CHEN, Ning;LIU, Huanhuan;TONG, Chao;WANG, Jiaying~ 33:CN ~31:PCT/CN2019/083198 ~32:18/04/2019

2021/07812 ~ Complete ~54:DRY GRINDING SYSTEM AND METHOD FOR REDUCED TAILINGS DEWATERING, IMPROVING FLOTATION EFFICIENCY, PRODUCING DRIER TAILINGS, AND PREVENTING FILTER MEDIA BLINDING ~71:FLSmidth A/S, Vigerslev Allé#233; 77, VALBY DK-2500, DENMARK, Denmark ~72: WISDOM, Todd~ 33:US ~31:62/834,014 ~32:15/04/2019

2021/07818 ~ Complete ~54:NOVEL AAV CAPSIDS AND COMPOSITIONS CONTAINING SAME ~71:The Trustees of the University of Pennsylvania, 3600 Civic Center Blvd., 9th Floor, PHILADELPHIA 19104, PA, USA, United States of America ~72: NAMBIAR, Kalyani;WILSON, James M.~ 33:US ~31:62/840,184 ~32:29/04/2019;33:US ~31:62/913,314 ~32:10/10/2019;33:US ~31:62/924,095 ~32:21/10/2019

2021/07822 ~ Complete ~54:ELECTRONIC DEVICE INCLUDING ANTENNA AND HEAT DISSIPATION STRUCTURE ~71:SAMSUNG ELECTRONICS CO., LTD., 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea ~72: CHANGWON JANG;JONGPILL LEE;SEUNGHAN SEO~ 33:KR ~31:10-2019-0043503 ~32:15/04/2019

2021/07824 ~ Complete ~54:ARRANGEMENT FOR SECURING A PANEL IN A RAIL BY TIGHTENING OUTER WEDGES FROM AN INNER SIDE OF THE PANEL ~71:SB INGENIERIE, 76 chemin des Poses, 74330, Poisy,

France ~72: LÉANDRE ROUIF;ROMAIN CHAPEL;SYLVIANE GIACOMETTI~ 33:FR ~31:FR1905808
~32:31/05/2019

2021/07827 ~ Complete ~54:AN APPARATUS AND METHODS FOR MEASURING, MONITORING, AND CONTROLLING CHEMICAL CONCENTRATIONS OF ACTIVE INGREDIENTS IN PLANT AND PLANT CROP TREATMENT SOLUTIONS ~71:AGROFRESH INC., 510-530 Walnut Street, Suite 1350, Philadelphia, Pennsylvania, 19106, United States of America ~72: ANDRÉS LÓPEZ GÓMEZ;JOSÉPÉREZ CHECA~ 33:ES ~31:P201930341 ~32:15/04/2019

2021/07833 ~ Complete ~54:SEALED CONNECTION DEVICE BETWEEN TWO ENCLOSED VOLUMES WITH IMPROVED SECURITY ~71:GETINGE LA CALHENE, 1 Rue du Comté de Donegal, France ~72: FELIX, Julien~ 33:FR ~31:FR1904029 ~32:16/04/2019

2021/07786 ~ Complete ~54:MOO2-DOPED POLYDOPAMINE PLATINUM PARTICLE NANOMATERIAL AND A PREPARATION METHOD THEREOF ~71:Qingdao University of Science and Technology, No.99 Songling Road, Laoshan District, Qingdao City, Shandong Province, People's Republic of China ~72: Bi Cheng;He Peng;Sui Yongkun;Zhao Lin~

2021/07788 ~ Complete ~54:A KIND OF SHOE UPPER FOR NEW TYPE TRAINING SHOES ~71:Xuzhou College of Industrial Technology, No.1 Xiangwang South Road, Gulou District, Xuzhou City, Jiangsu, People's Republic of China ~72: Chen Yang;Guowen Weng;Houluo Cong;Keyong Tang;Lei Lu;Yanan Zang;Yonggang Guo;Yunhui Xu;Zaixue Wang~

2021/07793 ~ Complete ~54:THREE-DIMENSIONAL BRAIDED CARBON-CARBON COMPOSITE PLATE AND PREPARATION METHOD THEREOF ~71:Shandong University, No.27, Shanda South Road, Jinan City, Shandong Province, People's Republic of China ~72: Cao Weiwei;Gao Xueping;Qiao Kun;Wang Yongwei;Yu Junwei;Yuan Xiaomin;Zhu Bo~

2021/07807 ~ Complete ~54:INHALERS AS WELL AS PROTECTIVE DEVICE AND BREATH INDICATOR ~71:BOEHRINGER INGELHEIM VETMEDICA GMBH, Binger Strasse 173, Germany ~72: BAUER, Peter;ENDERT, Guido;FRANZMANN, Benjamin;KRIEGER, Johannes;RAHMEL, Marcus, Rainer;RUF, Jonas;WERGEN, Horst~ 33:EP ~31:PCT/EP2019/063473 ~32:24/05/2019

2021/07816 ~ Complete ~54:AUTONOMOUS MINE VEHICLE OPERATION ~71:Sandvik Mining and Construction Oy, Pihtisulunkatu 9, TAMPERE 33330, FINLAND, Finland ~72: LEHTINEN, Antti;PAJALA, Esa;PARKKINEN, Teemu;PULLI, Riku;SANERMA, Simo~ 33:EP ~31:19174444.0 ~32:14/05/2019

2021/07801 ~ Complete ~54:METHOD FOR PREPARING SEA CUCUMBER STEROL SULFATE AND APPLICATION THEREOF ~71:Ocean University of China, No.238, Songling Road, Laoshan District, Qingdao, Shandong, 266101, People's Republic of China;QINGDAO INSTITUTE OF MARINE BIORESOURCES FOR NUTRITION AND HEALTH INNOVATION, No.106, Xiangyang Road, Chengyang District, Qingdao City, Shandong Province, 266109, People's Republic of China ~72: CONG, Peixu;JIANG, Xiaoming;LI, He;LI, Zhaojie;WANG, Yuming;XU, Jie;XUE, Changhu~

2021/07815 ~ Complete ~54:DOWN THE HOLE DRILLING ASSEMBLY AND APPARATUS ~71:Sandvik Mining and Construction Oy, Pihtisulunkatu 9, TAMPERE 33330, FINLAND, Finland ~72: BRUANDET, Olivier~ 33:EP ~31:19181471.4 ~32:20/06/2019

2021/07820 ~ Complete ~54:SELECTIVE ENRICHMENT BROTH FOR DETECTION OF ONE OR MORE PATHOGENS ~71:PolySkoPe Labs, 755 Research Parkway, Suite 465, OKLAHOMA CITY 73104, OK, USA,

United States of America ~72: CENTOLA, Michael Benjamin;SMITH, Paul Simon;ZEGRATI, Cyrus Cody~ 33:US
~31:62/819,417 ~32:15/03/2019

2021/07811 ~ Complete ~54:TREATMENT ASSEMBLY FOR TREATING THE SURFACE OF A BODY WITH A
DIELECTRICALLY LIMITED PLASMA ~71:CINOGY GmbH, Max-Näder-Strasse 15, DUDERSTADT 37115,
GERMANY, Germany ~72: HAHNL, Mirko;HELLMOLD, Jan-Hendrik;RICKE, Melanie;STORCK, Karl-
Otto;TRUTWIG, Leonhard;WANDKE, Dirk~ 33:DE ~31:10 2019 109 940.4 ~32:15/04/2019

2021/07783 ~ Provisional ~54:LEVER DRIVEN ENGINE ~71:Tendai Mupfawa, 78A ,9th Avenue,Bezuidenhout
Valley, South Africa ~72: Tendai Mupfawa~ 33:ZA ~31:691108 ~32:13/10/2021

2021/07797 ~ Complete ~54:HIGH-EFFICIENCY SCREW DISSOLVING DEVICE ~71:Shandong University,
No.27 Shanda South Road, Jinan City, Shandong Province, People's Republic of China ~72: Cai Fei;Cai Xun;Gao
Xueping;Lv Jianguo;Sun Na;Yuan Xiaomin;Zhao Shengyao;Zhu Bo~

2021/07804 ~ Complete ~54:FERTILIZATION METHOD FOR CONTROLLING TOTAL AMOUNT OF
POTASSIUM FERTILIZER FOR TOBACCO AND DELAYING TOPDRESSING ~71:Institute of Agricultural
Resources and Environment, SAAS, Block 2, Shizishan Road, Waidong, Chengdu City, Sichuan Province,
610066, People's Republic of China;Liangshan Prefecture Branch of Sichuan Tobacco Company, Block 2,
Shizishan Road, Waidong, Chengdu City, Sichuan Province, 610066, People's Republic of China ~72: CHEN,
Qingru;CHEN, Yulan;FAN, Hongzhu;LI, Changke;QIN, Yusheng;WANG, Yong;ZHANG, Xiao~

2021/07795 ~ Complete ~54:PORTABLE MULTIFUNCTIONAL DRYING DEVICE FOR FIELD SAMPLING
~71:Jiangxi Agricultural University, No.1101, Zhimin Avenue, Economic and Technological Development Zone,
Nanchang City, Jiangxi Province, 330045, People's Republic of China ~72: Fan Yu;Qiu Lihong;Tang Ming;Xu
Ying;Yu Fen;Zhang Rui;Zhao Liaocheng~

2021/07806 ~ Complete ~54:METHOD AND PLANT FOR PREPARING VINYL CHLORIDE FROM 1,2-
DICHLOROETHANE ~71:THYSSENKRUPP AG, ThyssenKrupp Allee 1, Germany;THYSSENKRUPP
INDUSTRIAL SOLUTIONS AG, ThyssenKrupp Allee 1, Germany;VINNOLIT GMBH & CO.KG, Chemiepark
GENDORF, Industrieparkstr. 1, Germany ~72: Alexander POPPE;Klaus KREJCI;Peter KAMMERHOFER~ 33:DE
~31:10 2019 206 154.0 ~32:30/04/2019

2021/07817 ~ Complete ~54:SEPARABLE TOW HOOK BRAKE RELEASE SYSTEM ~71:Artisan Vehicle
Systems, Inc., 2385 Pleasant Valley Road, CAMARILLO 93012, CA, USA, United States of America ~72:
HICKEY, Kyle~ 33:US ~31:16/434,405 ~32:07/06/2019

2021/07803 ~ Complete ~54:METHOD FOR PREPARING SILICON-BASED SILVER-LOADED ANTIBACTERIAL
AGENT ~71:Sanhe Jingna Environmental Technology Co., Ltd., Room B210, Chuangye Building, Northeast
corner of Shenwei Huandao, Yingbin North Road, Yanjiao Development Zone, Sanhe City, Langfang City, Hebei
Province, 065201, People's Republic of China ~72: JIANG, Hongjuan;LI, Zeguo;SU, Shanghai~

- APPLIED ON 2021/10/15 -

2021/07854 ~ Complete ~54:MULTIFUNCTIONAL SWALLOWING EXERCISE DEVICE FOR REHABILITATION
NURSING ~71:Affiliated Hospital of YouJiang Medical University for Nationalities, 18 Zhongshan 2nd Road,
Youjiang District, Baise City, Guangxi Zhuang Autonomous Region, People's Republic of China ~72: Chen
Qiuping;Huang Cuimai;Huang Xiaozhen;Qin Jinyan;Wang Jianyuan~

2021/07869 ~ Complete ~54:AN IOT AND SENSOR BASED CHILD FENCING SYSTEM ~71:JOSHI, Shubham,
Department Of Computer Engineering, Svkm's Nmims University Mumbai Mpstme Shirpur Campus,

Maharashtra, India;MAHESHWARI, Manish, Department Of Computer Science and Applications, Makhanlal Chaturvedi University Of Journalism And Communication, Madhya Pradesh, India;RAWAT, Paresh, Sn Technology, Madhya Pradesh, India;SHUKLA, Piyush Kumar, Department Of Computer Science & Engineering, University Institute Of Technology, Rajiv Gandhi Proudhyogiki Vishwavidyalaya (Technological University Of Madhya Pradesh), Madhya Pradesh, India;SHUKLA, Prashant Kumar, Department Of Computer Science And Engineering, K L University, 29-36-38, Museum Rd, Governor Peta, Andhra Pradesh, India;STALIN, Shalini, Iit Bhopal, Madhya Pradesh, India ~72: JOSHI, Shubham;MAHESHWARI, Manish;RAWAT, Paresh;SHUKLA, Piyush Kumar;SHUKLA, Prashant Kumar;STALIN, Shalini~

2021/07874 ~ Complete ~54:METHODS AND COMPOSITIONS FOR TREATING RESPIRATORY ARRHYTHMIAS ~71:Meter Health, Inc., 69 Cougar Drive, MANCHESTER 06040, CT, USA, United States of America ~72: BACAK, Bartholomew J.;FRIEDMAN, Abraham;KIEVMAN, Adam;KIEVMAN, Mallory~ 33:US ~31:62/835,691 ~32:18/04/2019

2021/07883 ~ Complete ~54:ENGINEERED PH-DEPENDENT ANTI-CD3 ANTIBODIES, AND METHODS FOR THEIR GENERATION AND USE ~71:Adimab, LLC, 7 Lucent Drive, LEBANON 03766, NH, USA, United States of America ~72: GEOGHEGAN, James;PEJCHAL, Robert;PRINZ, Bianka~ 33:US ~31:62/858,968 ~32:07/06/2019

2021/07867 ~ Complete ~54:A METHOD FOR DEVELOPING AND EVALUATING METFORMIN HYDROCHLORIDE LOADED MICROSPEHERES ~71:LAHKAR, Sunita, Department of Pharmaceutical Sciences, Dibrugarh University Dibrugarh, India;NATH, Lila Kanta, Department of Pharmaceutical Sciences, Dibrugarh University Dibrugarh, India;SHARMA, Hemanta Kumar, Department of Pharmaceutical Sciences, Dibrugarh University Dibrugarh, India ~72: LAHKAR, Sunita;NATH, Lila Kanta;SHARMA, Hemanta Kumar~

2021/07886 ~ Complete ~54:NOVEL PHENYL AND PYRIDYL UREAS ACTIVE AGAINST THE HEPATITIS B VIRUS (HBV) ~71:AiCuris GmbH & Co. KG, Friedrich-Ebert-Strasse 475, WUPPERTAL 42117, GERMANY, Germany ~72: BONSMANN, Susanne;DONALD, Alastair;KLENKE, Burkhard;SPRINGER, Jasper;URBAN, Andreas~ 33:EP ~31:19172007.7 ~32:30/04/2019;33:EP ~31:19172401.2 ~32:02/05/2019

2021/07887 ~ Complete ~54:COMPOUND, METHOD AND PHARMACEUTICAL COMPOSITION FOR MODULATING EXPRESSION OF DUX4 ~71:MITSUBISHI TANABE PHARMA CORPORATION, 3-2-10, Dosho-machi, Chuo-ku, Osaka-shi, Osaka, 5418505, Japan ~72: CHIEKO OKAGAKI;HIROYUKI FURUKAWA;SHINJI KUMAGAI;TAKASHI YASHIRO;TAKAYUKI KANAGAWA;TOMO ARAKI~ 33:JP ~31:2019-067914 ~32:29/03/2019

2021/07893 ~ Complete ~54:COMPOSITIONS AND METHODS FOR IMPROVING SKIN HEALTH AND FOR THE TREATMENT AND PREVENTION OF DISEASES, DISORDERS AND CONDITIONS ASSOCIATED WITH PATHOGENIC MICROBES ~71:DERMBIONT, INC., 451 D Street, United States of America ~72: BRUCKER, Robert, M;JAIN, Sanjay;LISTER, Ida;ZHANG, Xuecheng~ 33:US ~31:62/920,010 ~32:09/04/2019

2021/07862 ~ Complete ~54:BEARING AND SAMPLE LOADING MECHANISM FOR ROCK TRIAXIAL LOADING MODEL ~71:Hebei Aijiayuan Geothermal Energy Technology CO. LTD, Fang Yi Science Park, No.313 Zhujiang Avenue, High-tech Zone, Shijiazhuang City, Hebei Province, People's Republic of China;Institute of Hydrogeology and Environmental Geology, Chinese Academy of Geological Sciences, No.268 Zhonghua North Street, Shijiazhuang City, Hebei Province, People's Republic of China;Jiangsu Huaan Scientific Research Instrument CO. LTD, No. 8, Xingang Road, Hai'an Development Zone, Nantong City, Jiangsu Province, People's Republic of China ~72: Chaowei Zheng;Guiling Wang;Haijing Dai;Wei Zhang;Yanguang Liu~

2021/07845 ~ Complete ~54:MULTI-AXIS NUMERICAL CONTROL GRIPPER BASED ON PARALLEL MECHANISM ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, No. 168 Taifeng Road, Huainan, Anhui, 232001, People's Republic of China ~72: LI, Yihua;YAO, Jintao;YU, Zuyu;ZUO, Cheng~

2021/07839 ~ Provisional ~54:FIRE RATED MINERAL BOARD ~71:SYMONS, Michael Windsor, 16 Luipaard Road, Monument Park, Pretoria 0181, Gauteng Province, SOUTH AFRICA, South Africa ~72: SYMONS, Michael Windsor~

2021/07851 ~ Complete ~54:CHAIN TYPE TOOL MAGAZINE OF NUMERICAL CONTROL MACHINING CENTER ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, No. 168 Taifeng Road, Huainan, Anhui, 232001, People's Republic of China ~72: LI, Yihua;YU, Zuyu;ZHANG, Yukuan;ZHU, Ronghai~

2021/07853 ~ Complete ~54:TRPV3 INHIBITOR AND PREPARATION METHOD THEREOF ~71:Qingdao University, 7 Hongkong East Road, Laoshan District, Qingdao City, Shandong Province, 266000, People's Republic of China ~72: LV, Mengqi;SUN, Xiaoying;WANG, Congcong;WANG, Junxia;WANG, Kewei;WU, Han;ZHANG, Zhongyin~ 33:CN ~31:202011520551.2 ~32:21/12/2020

2021/07871 ~ Complete ~54:EXTRACTION OF CANNABINOIDS, FLAVONOIDS AND TERPENES FROM CANNABIS ~71:SILVER STALLION GMBH, Kernserstrasse 17, Switzerland ~72: COOPER EAMES HELLEGER, Gordon~ 33:IN ~31:201921015397 ~32:17/04/2019

2021/07878 ~ Complete ~54:NOVEL OXALYL PIPERAZINES ACTIVE AGAINST THE HEPATITIS B VIRUS (HBV) ~71:AiCuris GmbH & Co. KG, Friedrich-Ebert-Straße 475, WUPPERTAL 42117, GERMANY, Germany ~72: BARRIOS, Esther Alza;BONSMANN, Susanne;DETTA, Elena;DONALD, Alastair;GOLDNER, Thomas;PERIC;S BRONDO, Miquel;RAYMOND, Justine;URBAN, Andreas~ 33:EP ~31:19172008.5 ~32:30/04/2019;33:EP ~31:19172402.0 ~32:02/05/2019

2021/07884 ~ Complete ~54:GENE THERAPIES FOR LYSOSOMAL DISORDERS ~71:Prevail Therapeutics, Inc., 430 East 29th Street, Suite 940, NEW YORK 10016, NY, USA, United States of America ~72: ABELIOVICH, Asa;HECKMAN, Laura;RHINN, Herve~ 33:US ~31:62/831,840 ~32:10/04/2019;33:US ~31:62/831,846 ~32:10/04/2019;33:US ~31:62/831,856 ~32:10/04/2019;33:US ~31:62/832,223 ~32:10/04/2019;33:US ~31:62/934,450 ~32:12/11/2019;33:US ~31:62/954,089 ~32:27/12/2019;33:US ~31:62/960,471 ~32:13/01/2020;33:US ~31:62/998,665 ~32:12/03/2020;33:US ~31:62/990,246 ~32:16/03/2020

2021/07841 ~ Provisional ~54:HARMONIC REDUCTION METHOD AND SYSTEM ~71:Jacobus Johannes van der Merwe, 1060 Pierneef Street, Villieria, South Africa ~72: Jacobus Johannes van der Merwe~

2021/07848 ~ Complete ~54:VAGINAL MICROBIAL MARKER FOR EVALUATING CERVICAL CANCER RISK AND APPLICATION THEREOF ~71:The Affiliated Wuxi Maternity and Child Health Care Hospital of Nanjing Medical University, No. 48 Huaishu lane, Liangxi District, Wuxi City, Jiangsu Province, People's Republic of China ~72: Chen Daozhen;Chen Jiale;Chen Yu;Lu Mudan;Song Yuexiao;Xu Feng;Xu Hanjie;Yang Rui~

2021/07857 ~ Complete ~54:GLASS CAPABLE OF ENHANCING THERMAL SHOCK RESISTANCE AND PREPARATION METHOD THEREOF ~71:SHANDONG LEHE HOUSEWARES CO.,LTD, Courtyard of Shandong Yaohui Solar Co.,Ltd., Xinyan Town, Yanzhou District, Jining City, Shandong Province, 272100, People's Republic of China ~72: WANG, Hongyan;XU, Zhengben;ZHANG, Chao~ 33:CN ~31:202110514593.3 ~32:11/05/2021

2021/07870 ~ Complete ~54:AEROSOL-GENERATING DEVICE COMPRISING AN INDUCTIVE HEATING ARRANGEMENT COMPRISING FIRST AND SECOND LC CIRCUITS HAVING DIFFERENT RESONANCE FREQUENCIES ~71:PHILIP MORRIS PRODUCTS S.A., Quai Jeanrenaud 3, Switzerland ~72: COURBAT, Jerome, Christian;MIRONOV, Oleg;STURA, Enrico~ 33:EP ~31:19191197.3 ~32:12/08/2012;33:EP ~31:19184552.8 ~32:04/07/2019

2021/07852 ~ Complete ~54:CONIP-RGO/S COMPOSITE LITHIUM-SULFUR BATTERY CATHODE MATERIAL AND PREPARATION METHOD THEREOF ~71:Qilu University of Technology, No. 3501 Daxue Road, Changqing District, Jinan City, Shandong Province, 250353, People's Republic of China ~72: LIU, Weiliang;REN, Manman;XIAO, Tingjiao;YANG, Mingzhi;YI, Fengjin~

2021/07873 ~ Complete ~54:ANTI-HYPERTENSIVE AND CHOLESTEROL-LOWERING FIXED-DOSE COMBINATION AND METHOD OF MANUFACTURE ~71:CARDIOPHARMA, INC., 100A Eastwood Center, United States of America ~72: GLENN, Dr. Stephan Dale;GREGORY, JR., Dr. Daniel Tyree;HAUSE, David P.;STIMITS, Roy A.;WHITTINGHAM, Wayne L.~

2021/07888 ~ Complete ~54:CONTEXT CODING FOR TRANSFORM SKIP MODE ~71:BYTEDANCE INC., 12655 West Jefferson Boulevard, Sixth Floor, Suite No. 137, Los Angeles, California, 90066, United States of America ~72: JIZHENG XU;LI ZHANG;WEIJIA ZHU~ 33:CN ~31:PCT/CN2019/083366 ~32:19/04/2019

2021/07847 ~ Complete ~54:TENSION ADJUSTING BOLT ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, No. 168 Taifeng Road, Huainan, Anhui, 232001, People's Republic of China ~72: CHEN, Jun;CHEN, Tao;LUAN, Zhenhui;ZHANG, Liming~

2021/07859 ~ Complete ~54:INTERLAYER REINFORCED TWO-DIMENSIONAL/THREE-DIMENSIONAL BRAIDED COMPOSITE AUTOMOBILE LEAF SPRING AND PREPARATION METHOD THEREOF ~71:Tiangong University, No.399 Binshui West Road, Xiqing District, Tianjin City, People's Republic of China ~72: Cao Weiwei;Liu Yulan;Wang Yongwei;Yuan Xiaomin;Zhang Min;Zhu Bo~

2021/07876 ~ Complete ~54:COMPOSITIONS USEFUL FOR TREATMENT OF POMPE DISEASE ~71:Amicus Therapeutics, Inc, 1 Cedar Brook Drive, CRANBURY 08512, NJ, USA, United States of America;The Trustees of the University of Pennsylvania, 3600 Civic Center Blvd., 9th Floor, PHILADELPHIA 19104, PA, USA, United States of America ~72: DO, Hung V.;GOTSCHALL, Russell;HORDEAUX, Juliette;TUSKE, Steven;WILSON, James M.~ 33:US ~31:62/840,911 ~32:30/04/2019;33:US ~31:62/913,401 ~32:10/10/2019

2021/07843 ~ Complete ~54:DESIGN OF AN LED FREEFORM LENS BASED ON THE BIDIRECTIONAL FEEDBACK GRID METHOD ~71:NANTONG UNIVERSITY, No. 9 Seyuan Road, Chongchuan, Nantong, Jiangsu, 226000, People's Republic of China ~72: FAN,Tingtong;MIAO, Jianwen;SONG, Guohua;YANG, Chao~ 33:CN ~31:202111060783.9 ~32:13/09/2021

2021/07861 ~ Complete ~54:SUBSOILER FOR DEEP-ROOTED CROPS ~71:Institute of Agricultural Machinery of Chinese Academy of Tropical Agricultural Sciences, Huxiu Road, Mazhang District, Zhanjiang, Guangdong, People's Republic of China;LiuZhou Institute of Technology, 99 Xinliu Avenue, Yufeng District, Liuzhou, Guangxi, People's Republic of China ~72: Chang Ge;Jian Liu;Lijiao Wei;Ming Li;Weihua Huang;Yuan Zhang;Yueqin Huang;Yuyin Lou;Zhaojun Niu~

2021/07863 ~ Complete ~54:PROCESS FOR TREATING ELECTRICAL AND ELECTRONIC WASTE ~71:MINTEK, 200 Malibongwe Drive, South Africa ~72: DENTON, Glen Michael;TSEBE, Sello Peter~ 33:ZA ~31:2020/04360 ~32:16/07/2020

2021/07838 ~ Provisional ~54:LIGNOCELLULOSIC BINDER SYSTEMS ~71:SYMONS, Michael Windsor, 16 Luipaard Road, Monument Park, Pretoria 0181, Gauteng Province, SOUTH AFRICA, South Africa ~72: SYMONS, Michael Windsor~

2021/07844 ~ Complete ~54:CAST COPPER ROTOR OF MOTOR ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, No. 168 Taifeng Road, Huainan, Anhui, 232001, People's Republic of China ~72: GAO, Jian;SHEN, Jing~

2021/07850 ~ Complete ~54:METHOD FOR DETECTING INTERNAL DEFECTS OF AUTOMOBILE BRAKE DISC ~71:Taiyuan Institute of Technology, No. 2, North First Alley, Yingxin Street, Taiyuan City, Shanxi Province, 030051, People's Republic of China ~72: GUO, Caiping;HE, Yingfeng;ZHANG, Junsheng;ZHANG, Xiaojuan~

2021/07856 ~ Complete ~54:WHEAT QUALITY-RELATED PROTEIN PDIA3, ENCODING GENE AND USE THEREOF ~71:Institute of Grain and Oil Crops, Hebei Academy of Agriculture and Forestry Sciences, No. 162, Hengshan Street, High-tech Zone, Shijiazhuang City, Hebei Province, 050035, People's Republic of China ~72: CHEN, Xiyong;DONG, Ce;LI, Hui;LV, Liangjie;ZHANG, Yelun;ZHAO, Aiju~ 33:CN ~31:202110031466 .8 ~32:11/01/2021

2021/07858 ~ Complete ~54:LIQUID SODIUM SILICATE ENERGY-SAVING PRODUCTION DEVICE AND PRODUCTION METHOD ~71:Zaozhuang University, No. 1, Bei'an Road, Shizhong District, Zaozhuang City, Shandong Province, People's Republic of China ~72: Cheng Li;Jiang Peng;Jiang Xianmiao;Yuan Fei;Zheng Yi~

2021/07872 ~ Complete ~54:BIOREACTOR DEVICE AND METHODS ~71:Arborea Ltd, Translation & Innovation HUB 84 Wood Lane, United Kingdom ~72: MELCHIORRI, Julian Paul~ 33:GB ~31:1906298.3 ~32:03/05/2019

2021/07877 ~ Complete ~54:COMPOSITIONS USEFUL FOR TREATMENT OF POMPE DISEASE ~71:The Trustees of the University of Pennsylvania, 3600 Civic Center Blvd., 9th Floor, PHILADELPHIA 19104, PA, USA, United States of America ~72: HORDEAUX, Juliette;WILSON, James M.~ 33:US ~31:62/840,911 ~32:30/04/2019;33:US ~31:62/913,401 ~32:10/10/2019

2021/07881 ~ Complete ~54:NEUROGENESIS ~71:Brown University, Box 1949, PROVIDENCE 02912, RI, USA, United States of America ~72: FALLON, Justin R.;FISH, Lauren;JAIME, Diego;MCKECHNIE, Beth;PAGE, John;SORETS, Tali;WEBB, Ashley E.~ 33:US ~31:62/835,945 ~32:18/04/2019

2021/07855 ~ Complete ~54:COMPOSITE SUCKER ROD WITH SELF-ADJUSTING ANTI-IMPACT STRUCTURE ~71:Shandong University, No.27 Shanda South Road, Jinan City, Shandong Province, People's Republic of China ~72: Cao Weiwei;Qiao Kun;Wang Yongwei;Zhang Min;Zhu Bo~

2021/07864 ~ Complete ~54:TRAUMATIC BRAIN INJURY PROTECTION DEVICES ~71:Q30 SPORTS SCIENCE, LLC, 257 Riverside Avenue, Westport, Connecticut, 06880, United States of America ~72: GEORGE ELVIRA;MARTIN TREMBLAY;STEPHAN GEORGIEV~ 33:US ~31:62/256,093 ~32:16/11/2015

2021/07865 ~ Complete ~54:MODULAR MOVABLE FURNITURE AND DISPLACEMENT METHOD THEREOF ~71:CHINA ARCHITECTURE DESIGN & RESEARCH GROUP CO., LTD., No.19, Chegongzhuang Street, Xicheng District, Beijing, 100044, People's Republic of China ~72: CHEN HE;JINHAO SU;LIU LIU;TINGTING SHANG;YANG JIN;YANG YU;YIRAN WANG;YU WANG;YUE WANG;ZHEXUE MA~ 33:CN ~31:202110282590.1 ~32:16/03/2021

2021/07868 ~ Complete ~54:A METHOD FOR MEASURING A SOFTWARE ARCHITECTURAL COMPLEXITY BASED ON UML ~71:QINGDAO UNIVERSITY, Ningxia Road 308, People's Republic of China ~72: LI, Jinhua~

2021/07875 ~ Complete ~54:ENCODING DEVICE, DECODING DEVICE, ENCODING METHOD, AND DECODING METHOD ~71:Panasonic Intellectual Property Corporation of America, 20000 Mariner Avenue, Suite 200, TORRANCE 90503, CA, USA, United States of America ~72: ABE, Kiyofumi;KATO, Yusuke;NISHI, Takahiro;TOMA, Tadamasa~ 33:US ~31:62/834,715 ~32:16/04/2019

2021/07882 ~ Complete ~54:HIGH AFFINITY ANTI-CD3 ANTIBODIES, AND METHODS FOR THEIR GENERATION AND USE ~71:Adimab, LLC, 7 Lucent Drive, LEBANON 03766, NH, USA, United States of America ~72: MCCREARY, Julia;PEJCHAL, Robert;STEIN, Caitlin~ 33:US ~31:62/858,949 ~32:07/06/2019

2021/07891 ~ Complete ~54:BICYCLIC PEPTIDE LIGANDS SPECIFIC FOR OX40 ~71:BICYCLETX LIMITED, Building 900 Babraham Research Campus, Cambridge, CB22 3AT, United Kingdom ~72: HARVEY CHE;HELEN HARRISON;KEVIN MCDONNELL;LIUHONG CHEN;MICHAEL SKYNNER;NICHOLAS KEEN;PETER PARK;TOM LI STEPHEN~ 33:US ~31:62/845,473 ~32:09/05/2019

2021/07837 ~ Provisional ~54:INERTIA MULTIPLIER ~71:HENDRIK PETRUS BRINK, 88 EDWARD AVENUE, South Africa ~72: HENDRIK PETRUS BRINK~

2021/07849 ~ Complete ~54:HIGH-STRENGTH COLD ROLLED STEEL SHEET STAMPING PART ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, No. 168 Taifeng Road, Huainan, Anhui, 232001, People's Republic of China ~72: CHEN, Jun;CHEN, Tao;TANG, Qiong~

2021/07866 ~ Complete ~54:TROLLEY WITH MOVABLE SHELVES AND A SELF-LOCKING MECHANISM ~71:LOGAN COVE PTY LTD, 323 Collier Road, Bayswater, Australia ~72: BOWD-SEELEY, Dean;HAYDON, Greg;SHAW, James Palmer;WRIGHT, David John;WRIGHT, Geoffrey Lee;WRIGHT, Stephen Geoffrey~ 33:AU ~31:2020903770 ~32:16/10/2020

2021/07879 ~ Complete ~54:METHODS OF PRODUCING BIOCONJUGATES OF E. COLI O-ANTIGEN POLYSACCHARIDES, COMPOSITIONS THEREOF, AND METHODS OF USE THEREOF ~71:Janssen Pharmaceuticals, Inc., 1125 Trenton-Harbourton Road, TITUSVILLE 08560, NJ, USA, United States of America ~72: ABBANAT, Darren Robert;BRAUN, Martin Edward;BURGHOUT, Pieter Jan;CARRANZA SANDMEIER, Maria Paula;FAE, Kellen Cristhina;GAMBILLARA FONCK, Veronica;GEURTSEN, Jeroen;IBARRA YON, Patricia;KEMMLER, Stefan Jochen;KOWARIK, Michael Thomas;MALLY, Manuela;POOLMAN, Jan Theunis;WEERDENBURG, Eveline Marleen~ 33:US ~31:62/819,762 ~32:18/03/2019

2021/07885 ~ Complete ~54:NOVEL AAV CAPSIDS AND COMPOSITIONS CONTAINING SAME ~71:The Trustees of the University of Pennsylvania, 3600 Civic Center Blvd., 9th Floor, PHILADELPHIA 19104, PA, USA, United States of America ~72: NAMBIAR, Kalyani;WILSON, James M.~ 33:US ~31:62/840,184 ~32:29/04/2019;33:US ~31:62/913,314 ~32:10/10/2019;33:US ~31:62/924,095 ~32:21/10/2019

2021/07890 ~ Complete ~54:CRYSTAL FORM OF ACID ADDITION SALT OF PUROPYRIMIDINE COMPOUND ~71:HANMI PHARM. CO., LTD., 214, Muha-ro, Paltan-myeon, Hwaseong-si, Gyeonggi-do, 18536, Republic of Korea ~72: HEE SOOK OH;JAE HYUK JUNG;JI YOUNG JEON;SUN YOUNG JANG;TAE HEE HA~ 33:KR ~31:10-2019-0037060 ~32:29/03/2019

2021/07846 ~ Complete ~54:INDUSTRIAL ROBOT BASED ON INTERNET OF THINGS ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, No. 168 Taifeng Road, Huainan, Anhui, 232001, People's Republic of China ~72: GAO, Jian;SHEN, Jing~

2021/07860 ~ Complete ~54:METHOD FOR COLLECTING SEMEN IN RAMS BY ELECTRICAL STIMULATION ~71:Hainan University, No.58 Renmin Avenue, Meilan District, Haikou City, Hainan Province, People's Republic of China;Tropical Crops Genetic Resources Institute, Chinese Academy of Tropical Agricultural Sciences (CATAS), No.4 Xueyuan Road, Longhua District, Haikou City, Hainan Province, People's Republic of China ~72: Cao Ting;Shi Liguang;Xun Wenjuan~

2021/07880 ~ Complete ~54:AQUEOUS AGROCHEMICAL SUSPENSION COMPOSITION AND METHOD FOR SPRAYING SAME ~71:Kumiai Chemical Industry Co., Ltd., 4-26, Ikenohata 1-chome, Taito-ku, TOKYO 1108782, JAPAN, Japan ~72: YOKOYAMA, Waki~ 33:JP ~31:2019-050487 ~32:18/03/2019

2021/07889 ~ Complete ~54:HETEROARYL DERIVATIVE, METHOD FOR PRODUCING SAME, AND PHARMACEUTICAL COMPOSITION COMPRISING SAME AS EFFECTIVE COMPONENT ~71:B2SBIO INC., 23 Floor, S-dong, 32 Songdogwahak-ro, Yeonsu-gu, Incheon, 21984, Republic of Korea;VORONOI INC., 18 Floor, S-dong, 32 Songdogwahak-ro, Yeonsu-gu, Incheon, 21984, Republic of Korea;VORONOIBIO INC., 11 Floor, S-dong, 32 Songdogwahak-ro, Yeonsu-gu, Incheon, 21984, Republic of Korea ~72: AH REUM HAN;DA EUN KIM;DONG KEUN HWANG;EUN HWA KO;HWAN GEUN CHOI;HWAN KIM;JI YOON SEOK;JU HEE KANG;JUNG BEOM SON;MIN SEOK RYU;NAM DOO KIM;SE IN KANG;SEUNG SU KIM;SUN HWA LEE;YI KYUNG KO;YOUN HO LEE~ 33:KR ~31:10-2019-0031269 ~32:19/03/2019;33:KR ~31:10-2019-0134472 ~32:28/10/2019

2021/07894 ~ Provisional ~54:PRO BICYCLE BRACKET ~71:MARTHINUS JOHANNES BASSON, PLOT 199, KROKODILDRIFT WEST R512, South Africa ~72: MARTHINUS JOHANNES BASSON~

2021/07840 ~ Provisional ~54:POSITIONING ARRANGEMENT FOR THE COLLAR OF A GARMENT ~71:DONIN, Myriam, F112 Sandringham Gardens, 85 George Avenue, SANDRINGHAM, Johannesburg 2192, Gauteng, SOUTH AFRICA, South Africa ~72: DONIN, Myriam~

2021/07892 ~ Complete ~54:COMPOUNDS AND USES THEREOF ~71:YUMANITY THERAPEUTICS, INC., 790 Memorial Drive, Suite 2C, Cambridge, Massachusetts, 02139, United States of America ~72: BERTRAND LE BOURDONNEC;BHAUMIK PANDYA;DANIEL TARDIFF;IWONA WRONA;KEREM OZBOYA;MATTHEW LUCAS;PARCHAREE TIVITMAHAISOON~ 33:US ~31:62/822,486 ~32:22/03/2019;33:US ~31:62/934,930 ~32:13/11/2019

2021/07842 ~ Complete ~54:NANO POTASSIUM SILICATE FERTILIZER AND PREPARATION METHOD THEREOF ~71:Qingdao Agricultural University, No.700, Changcheng Road, Chengyang District, Qingdao City, Shandong Province, People's Republic of China ~72: Cao Wenqin;Chen Shuang;Shi Yan~

- APPLIED ON 2021/10/18 -

2021/07897 ~ Complete ~54:A WASTE MANAGEMENT SYSTEM ~71:AMARU HEGALLU ENERGY AHE (PTY) LTD, 4987 BUTTERBUR CLOSE, South Africa ~72: SEAFIELD, KEENAN LERONE~ 33:ZA ~31:2020104745 ~32:17/08/2020

2021/07908 ~ Complete ~54:LAMB THERMAL INSULATOR ~71:Qingdao Agricultural University, 700 Changcheng Road, Chengyang District, Qingdao City, Shandong Province, People's Republic of China ~72: Li Juan;Liu Huimin;Ni Hongbo;Rong Lihong;Shang Shuqi;Wang Dongwei;Xu Shusheng~

2021/07905 ~ Complete ~54:BUSINESS TRANSACTION INFORMATION ASSOCIATION PROCESSING METHOD, PLATFORM AND PROCESSING SYSTEM ~71:Shandong University, 27,Shanda Nan Road, Jinan, Shandong, People's Republic of China;Shandong University-Weihai Research Institute of Industrial Technology, Wenhua Xi Road 180, Huancui Region, Weihai, Shandong, People's Republic of China ~72: Cai, Xun;Gao, Yanbo;Li, Shuai;Li, Yunfei;Margasahayam Subrahmanyam, Raghavendra Sriram;Singh, Deepak Kumar;Suman, Amrit;Tyagi, Kanishka;Zhang, Deliang;Zhu, Bo~

2021/07912 ~ Complete ~54:METHOD OF GOVERNING A PRESSURIZED WATER NUCLEAR REACTOR AND ACCORDING GOVERNANCE SYSTEM ~71:FRAMATOME GMBH, Paul-Gossen-Strasse 100, Germany ~72: MOROKHOVSKIY, Victor~

2021/07923 ~ Provisional ~54:A HARD BASE FOR FLEXIBLE SHOULDER BAG/ BACK-PACK/ SHOULDER BAG ~71:S EBRAHIM PTY LTD T/A TOPMARK, 7 CARRIAGE CLOSE; CROWN EXT.7, South Africa ~72: MUHAMMAD EBRAHIM~

2021/07925 ~ Complete ~54:METHODOF PREPARATION OF A SOLID INCLUSION COMPLEX USING ARTIFICIAL NEURAL NETWORKS ~71:KUMAR, Gottapu Santosh, Dept. 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~

2021/07935 ~ Complete ~54:FUSION PROTEINS, RECOMBINANT BACTERIA, AND EXOSPORIUM FRAGMENTS FOR PEST CONTROL AND PLANT HEALTH ~71:Bayer CropScience LP, 800 North Lindbergh Boulevard, ST. LOUIS 63167, MO, USA, United States of America ~72: BUGG, Kevin;CURTIS, Damian~ 33:US ~31:62/820,773 ~32:19/03/2019

2021/07942 ~ Complete ~54:BATTERY LOAD MECHANISM FOR ELECTRIC LHD MINING MACHINE ~71:Artisan Vehicle Systems, Inc., 2385 Pleasant Valley Road, CAMARILLO 93012, CA, USA, United States of America ~72: HICKEY, Kyle~ 33:US ~31:16/434,396 ~32:07/06/2019

2021/07944 ~ Complete ~54:CONTAINER FOR FOOD PRODUCTS AND METHOD TO MANUFACTURE IT ~71:SIROPACK ITALIA s.r.l., Via Balitrona, 22C, CESENATICO (FC) 47042, ITALY, Italy ~72: DE LUCIA, Rocco~ 33:IT ~31:102019000006142 ~32:19/04/2019

2021/07946 ~ Complete ~54:METHODS FOR THE DIAGNOSIS OF LUNG CANCER ~71:FUNDACIÓ PRIVADA INSTITUT D'INVESTIGACIÓ ONCOLÒGICA DE VALL HEBRON, Natzaret, 115, E-08035, Barcelona, Spain;INSTITUCIÓ CATALANA DE RECERCA I ESTUDIS AVANÇATS, Passeig Lluís Companys, 23, E-08010, Barcelona, Spain;PEPTOMYC, S.L., Natzaret, 115-117, E-08035 Barcelona, Spain ~72: LAURA SOUCEK;MARIE-EVE BEAULIEU~ 33:EP ~31:19382195.6 ~32:19/03/2019

2021/07947 ~ Complete ~54:COMBINATION THERAPY WITH OMOMYC AND AN ANTIBODY BINDING PD-1 OR CTLA-4 FOR THE TREATMENT OF CANCER ~71:FUNDACIÓ PRIVADA INSTITUT D'INVESTIGACIÓ ONCOLÒGICA DE VALL HEBRON, Natzaret, 115, E-08035, Barcelona, Spain;INSTITUCIÓ CATALANA DE RECERCA I ESTUDIS AVANÇATS, Passeig Lluís Companys, 23, E-08010, Barcelona, Spain;PEPTOMYC, S.L., Natzaret, 115-117, E-08035 Barcelona, Spain ~72: LAURA SOUCEK;MARIE-EVE BEAULIEU;SÍLVIA CASACUBERTA-SERRA~ 33:EP ~31:19382194.9 ~32:19/03/2019

2021/07950 ~ Complete ~54:INHIBITORS OF ATYPICAL PROTEIN KINASE C AND THEIR USE IN TREATING HEDGEHOG PATHWAY-DEPENDENT CANCERS ~71:CANCER RESEARCH TECHNOLOGY LTD, 2 Redman Place, London, E20 1JQ, United Kingdom ~72: ANTHONY E ORO~ 33:US ~31:62/825,334 ~32:28/03/2019

2021/07953 ~ Complete ~54:DOSAGE FORMS AND REGIMENS FOR AMINO ACID COMPOUNDS ~71:PLIANT THERAPEUTICS, INC., 260 Littlefield Avenue, South San Francisco , California, 94080, United States of America ~72: CHENGGUO DONG;DAVID J MORGANS JR.;HUI LI;JACOB CHA;KATERINA LEFTHERIS;LAN JIANG;MANUEL MUNOZ;MARTIN DECARIS;MAUREEN REILLY;SCOTT TURNER;TIMOTHY HOM;YAJUN ZHENG~ 33:US ~31:62/831,060 ~32:08/04/2019;33:US ~31:62/850,530 ~32:20/05/2019;33:US ~31:62/899,071 ~32:11/09/2019

2021/07955 ~ Complete ~54:QUATERNARY AMINE COMPOUNDS WITH ISOPROPYLMETHYLPHENOL ESTER MOIETIES AS ANTIVIRALS, ANTIBACTERIALS AND ANTIMYCOTICS ~71:RHEA GENETICS PTE. LTD., Hudson Technocentre, 16 New Industrial Road, Singapore ~72: BABIKIAN, Haig;JIARAVANON, Benjamin~ 33:GB ~31:1905390.9 ~32:16/04/2019

2021/07919 ~ Complete ~54:TRANSMISSION OF NR CONTROL INFORMATION IN AN LTE DOWNLINK SUBFRAME ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83 STOCKHOLM, SWEDEN, Sweden ~72: BALDEMAIR, Robert;BOUDREAU, Gary;HEISER, Franz;HUSS, Fredrik;WILLIAMS, Luke~

2021/07931 ~ Complete ~54:ANTI-TAU ANTIBODIES AND METHODS OF USE ~71:AC IMMUNE SA, EPFL Innovation Park, Building B, CH-1015, Lausanne, Switzerland;GENENTECH, INC., 1 DNA Way, South San Francisco, California, 94080, United States of America ~72: DANIELLE MARIE DI CARA;GAI AYALON;ISIDRO HOTZEL;OSKAR ADOLFSSON~ 33:US ~31:62/171,693 ~32:05/06/2015

2021/07934 ~ Complete ~54:IMAGE SIGNAL REPRESENTING A SCENE ~71:Koninklijke Philips N.V., High Tech Campus 52, EINDHOVEN 5656 AG, THE NETHERLANDS, Netherlands ~72: KROON, Bart;VAN GEEST, Bartholomeus Wilhelmus Damianus~ 33:EP ~31:19163678.6 ~32:19/03/2019

2021/07936 ~ Complete ~54:FXR SMALL MOLECULE AGONIST AND PREPARATION METHOD THEREFOR AND USE THEREOF ~71:Shanghai Institute of Materia Medica, Chinese Academy of Sciences, 555 Zu Chong Zhi Road, Zhang Jiang, Pudong, SHANGHAI 201203, CHINA (P.R.C.), People's Republic of China ~72: GAO, Lixin;LI, Jia;LIU, Mingliang;SHI, Jingjing;SUN, Dandan;TAN, Qian;XIE, Rongrong;XU, Huaqiang;YOU, Erli;ZANG, Yi~ 33:CN ~31:201910319757.X ~32:19/04/2019;33:CN ~31:201910969552.6 ~32:12/10/2019

2021/07943 ~ Complete ~54:COSMETIC INGREDIENT COMPRISING RETINOL IN MULTILAYER CRYSTALLINE MICROCAPSULES ~71:Givaudan SA, Chemin de la Parfumerie 5, VERNIER 1214, SWITZERLAND, Switzerland ~72: SEMYTKIVSKA, Nina;WESTENFELDER, Horst~ 33:GB ~31:1906362.7 ~32:06/05/2019

2021/07907 ~ Complete ~54:MINIATURE FIXING FRAME ~71:Qingdao Agricultural University, 700 Changcheng Road, Chengyang District, Qingdao City, Shandong Province, People's Republic of China ~72: Liu Huimin;Rong Lihong;Shang Shuqi;Tong Zhimin;Wang Dongwei;Yan Weilan;Yu Yan~

2021/07913 ~ Complete ~54:HUB COVERING FOR A TYRE FILLING DEVICE OF A VEHICLE ~71:BPW BERGISCHE ACHSEN KG, Ohlerhammer, Germany ~72: Andreas TIMM;Wilfried WASSERFUHR~ 33:DE ~31:10 2019 111 422.5 ~32:03/05/2019

2021/07921 ~ Complete ~54:AMATOXIN ANTIBODY-DRUG CONJUGATES AND USES THEREOF ~71:HEIDELBERG PHARMA RESEARCH GMBH, Gregor-Mendel-Strasse 22, Germany ~72: Andreas PAHL;Carlotte Fenton MCDONAGH;Christian LUTZ;Christoph MUELLER;Francesca GALLO;Ganapathy N. SARMA;Michael KULKE;Rajiv PANWAR;Torsten HECHLER;Werner SIMON~ 33:US ~31:62/838,290 ~32:24/04/2019

2021/07922 ~ Provisional ~54:HARMONIC REDUCTION METHOD AND SYSTEM ~71:Jacobus Johannes van der Merwe, 1060 Pierneef Street, Villieria, South Africa ~72: Jacobus Johannes van der Merwe~

2021/08013 ~ Provisional ~54:SELF ADJUSTING GRAVY/SAUCE PERCOLATOR ~71:VAN ALTENA FAMILY TRUST, 24 ROMNEY STREET DE LA HAYE, BELLVILLE, South Africa ~72: ANTHONE GERHARDUS VAN ALTENA~

2021/07916 ~ Complete ~54:PULSE DELIVERY CLEANING SYSTEMS AND METHODS ~71:DONALDSON COMPANY, INC., 1400 WEST 94TH STREET, P O BOX 1299, MINNEAPOLIS, MINNESOTA 55440-1299, U.S.A, United States of America ~72: GRAHAM, Stephan, A.;JOHNSON, Steven, A.~ 33:US ~31:62/820,394 ~32:19/03/2019

2021/07926 ~ Complete ~54:A SYSTEM AND METHOD FOR DEVELOPING A SEMI-METALLIC SALTWATER BATTERY ~71:ALMESFER, Mohammed Khaloofa, Department of Chemical Engineering, King Khalid University, Saudi Arabia;KHAN, Amadur Rahman, Faculty of Engineering and Technology, Aligarh Muslim University, India;KHAN, Roohul Abad, Department of Civil Engineering, King Khalid University, Saudi Arabia;MORABET, Rachida El, Department of Geography, LADES lab, FLSH-M, Hassan II University of Casablanca, Morocco;SHAIK, Mohammad Irshad, Department of Electrical Engineering, King Khalid University, Saudi Arabia ~72: ALMESFER, Mohammed Khaloofa;KHAN, Amadur Rahman;KHAN, Roohul Abad;MORABET, Rachida El;SHAIK, Mohammad Irshad~

2021/07896 ~ Complete ~54:DETECTION MECHANISM FOR DETECTING FERTILIZATION CONTINUITY ~71:Guangxi Guigang Xijiang Machinery Co., Ltd, Original machinery factory of state owned Xijiang farm, Guigang, Guangxi, People's Republic of China;Institute of Agricultural Machinery of Chinese Academy of Tropical Agricultural Sciences, Huxiu Road, Mazhang District, Zhanjiang, Guangdong, People's Republic of China ~72: Chang Ge;Jian Liu;Lijiao Wei;Ming Li;Rihua Li;Ronggang Qin;Weihua Huang;Yuan Zhang;Zhaojun Niu~

2021/07901 ~ Complete ~54:RADIATION DOSE RATE MEASURING SYSTEM BASED ON A HIGH-PURITY GERMANIUM DETECTOR ~71:Inner Mongolia Autonomous Region Nuclear and Radiation Monitoring Center, Environmental Monitoring Law Enforcement Building, No.6 Jianhua South Road, Jiuyuan District, Baotou City, Inner Mongolia, People's Republic of China;Inner Mongolia Minzu University, No.22 Huolinhe Street, Horqin District, Tongliao City, Inner Mongolia, People's Republic of China ~72: Bai Liga;Huang Meirong;Jia Tao;Li Xin;Wang Dexin;Zhang Suyalatu~

2021/07914 ~ Complete ~54:A HUMIDITY DETECTION EQUIPMENT OF A STRIP ~71:ARCELOMITTAL, 24-26, Boulevard d'Avranches, Luxembourg ~72: Akshay BANSAL;Gard GRIFFAY;Vladislav JANECEK~ 33:IB ~31:PCT/IB2019/054265 ~32:23/05/2019

2021/07932 ~ Complete ~54:METHODS AND COMPOSITIONS FOR TREATING CANCER ~71:CRISPR THERAPEUTICS AG, Baarerstrasse 14, 6300, Zug, Switzerland ~72: DEMETRIOS KALAITZIDIS;JONATHAN ALEXANDER TERRETT;MARY-LEE DEQUANT;ANT;ZINKAL SAMIR PADALIA~ 33:US ~31:62/670,417 ~32:11/05/2018;33:US ~31:62/701,340 ~32:20/07/2018;33:US ~31:62/756,643 ~32:07/11/2018;33:US ~31:62/773,658 ~32:30/11/2018;33:US ~31:62/826,600 ~32:29/03/2019

2021/08058 ~ Provisional ~54:ALFAOMEGA ~71:IAMNOVA, 4131 Meadowlands, Zone 9, South Africa ~72: THABISO FRANS MAVIMBELA~

2021/07902 ~ Complete ~54:IN-SITU CONCENTRATION REACTION KETTLE ~71:Linyi University, Middle Section of Shuangling Road, Linyi City, Shandong Province, 276000, People's Republic of China ~72: LIANG, Ruquan;SHI, Jianhui;SONG, Yuanmei;YANG, Liu;ZHANG, Danhui;ZHANG, Dengbo~

2021/07903 ~ Complete ~54:MARINE WATER QUALITY MONITORING PLATFORM WITH SELF-GENERATING ELECTRICITY AND MONITORING TECHNOLOGY POWERED BY SELF-GENERATING ELECTRICITY ~71:QINGDAO UNIVERSITY OF TECHNOLOGY, No.777 Jialingjiang Road, Economic and Technological Development Zone, Qingdao, Shandong, 266520, People's Republic of China ~72: LIU, Qingyu;NI, Tingting;SUN, Shufeng;YANG, Fazhan~

2021/07938 ~ Complete ~54:STABILIZED THIOKETONE FORMULATIONS ~71:Bayer Aktiengesellschaft, Kaiser-Wilhelm-Allee 1, LEVERKUSEN 51373, GERMANY, Germany ~72: KRAUSE, Jens;SCHOTES, Christoph;WEISS, Martin~ 33:EP ~31:19163615.8 ~32:19/03/2019

2021/07949 ~ Complete ~54:AUTOMATIC ANALYZER ~71:HITACHI HIGH-TECH CORPORATION, 17-1, Toranomon 1-chome, Minato-ku,, Tokyo, 105-6409, Japan ~72: EIICHIRO TAKADA;FUMIYA

NEHASHI;HIDETSUGU TANOUE;MASASHI FUKAYA;YOSHIHIRO YAMASHITA~ 33:JP ~31:2019-085236
~32:26/04/2019

2021/07954 ~ Provisional ~54:APPARATUS AND SYSTEM FOR GENERATING A CYCLICAL AND UNIDIRECTIONAL IMPULSE ~71:HOWARD, Ethan, 75 Amajuba Street, Noordhewel, Krugersdorp, South Africa
~72: HOWARD, Ethan~

2021/07900 ~ Complete ~54:POLYUNSATURATED FATTY ACID CALCIUM-ZINC-FERRITE-MAGNESIUM COMPOSITE FORMULATION AND PREPARATION METHOD AND APPLICATION THEREOF ~71:Shanxi kairuisen Biotechnology Co., Ltd., Room 501 and 508, block B, Shanxi International Business Center, middle section of Kangning street, Xiaodian District, settled in Taiyuan Qifa business secretary Co., Ltd. - b044, Taiyuan City, Shanxi Province, 030000, People's Republic of China ~72: LI, Lei;LIU, Kangkai;LIU, Yangyue;RUAN, Yuanyuan;YANG, Qian~

2021/07906 ~ Complete ~54:AIR CURTAIN SYSTEM FOR WARD VENTILATION AND USE METHOD THEREOF ~71:TIANJIN CHENGJIAN UNIVERSITY, NO.26, Jinjing Road, Xiqing District, Tianjin, 300384, People's Republic of China;Xi'an University of Architecture and Technology, No. 13, Yanta Road, Beilin District, Xi'an, Shaanxi Province, 710055, People's Republic of China ~72: JIN, Dacheng;LI, Angui;LIU, Pengju;PAN, Bing'an;SU, Wei;XU, Shuaixing;YANG, Bin;YANG, Pengfei;ZHOU, Bin~

2021/07917 ~ Complete ~54:METHODS OF TREATING BORDERLINE PERSONALITY DISORDER ~71:ORYZON GENOMICS, S.A., CARRERA DE SAN JERONIMO 15, 2A PLANTA, 28014 MADRID, SPAIN, Spain ~72: BUESA ARJOL, Carlos, Manuel;BULLOCK, Roger, Alan;RAMOS QUIROGA, Jos#233;, Antonio~ 33:EP ~31:19382196.4 ~32:20/03/2019

2021/07895 ~ Provisional ~54:SMART INFLOW METER-SIM.V1 ~71:Francis Junior Wappi Djuimo, 15A Kings Road, South Africa ~72: Francis Junior Wappi Djuimo~

2021/07929 ~ Complete ~54:EPOXY RESIN MODIFIED BY NANO FILLERS ~71:Shandong University, No.27 Shanda South Road, Jinan City, Shandong Province, People's Republic of China ~72: Di Chengrui;Qiao Kun;Wang Yongwei;Yu Junwei;Zhu Bo~

2021/07945 ~ Complete ~54:BI-FUNCTIONAL HUMANIZED ANTI-C5 ANTIBODIES AND FACTOR H FUSION PROTEINS AND USES THEREOF ~71:Kira Pharmaceuticals (US) LLC, 164 Pleasant Street, ARLINGTON 02476, MA, USA, United States of America;The Trustees of the University of Pennsylvania, 3600 Civic Center Boulevard, 9th Floor, PHILADELPHIA 19104, PA, USA, United States of America ~72: GULLIPALLI, Damodar;MIWA, Takashi;SATO, Sayaka;SONG, Wenchao;TSUI, Ping;ZHU, Xihua;ZHU, Yingjie~ 33:US ~31:62/837,833 ~32:24/04/2019;33:US ~31:62/837,853 ~32:24/04/2019

2021/07951 ~ Complete ~54:METHODS OF DEPLETING DISEASE CAUSING AGENTS VIA ANTIBODY TARGETED PHAGOCYTOSIS ~71:DREN BIO, INC., 400 Seaport Ct., Suite 102, Redwood City, California, 94063, United States of America ~72: ADAM LEWIS SALLES;CHANTY MARIATEGUE CHAN;NENAD TOMASEVIC;PANAGIOTIS FOTAKIS;RUO SHI SHI~ 33:US ~31:62/830,139 ~32:05/04/2019

2021/07956 ~ Complete ~54:METHODS FOR TREATING OR PREVENTING ASTHMA BY ADMINISTERING AN IL-33 ANTAGONIST ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America;SANOFI BIOTECHNOLOGY, 54 rue la Boetie, France ~72: ABDULAI, Raolat;AMIN, Nikhil;BODDY, Alex;DUKOVIC, Deborah;GOULAOUIC, Helene;HAREL, Sivan;HU, Chih-Chi;JESSEL, Andreas;KALLIOLIAS, Georgios;RUDDY, Marcella;TEPER, Ariel~ 33:US ~31:62/841,481 ~32:01/05/2019;33:US ~31:62/848,248 ~32:15/05/2019;33:US ~31:62/898,900 ~32:11/09/2019

2021/07924 ~ Complete ~54:FERMENTED BACTERIAL FERTILIZER AND PREPARATION METHOD AND APPLICATION THEREOF ~71:WEIFANG UNIVERSITY, No. 5147, Dongfeng East Street, Shandong Province, People's Republic of China ~72: BI, Junlai;CUI, Ying;JIANG, Xuelian;LI, Mengjie;ZHAO, Sheng;ZHAO, Yueling~ 33:CN ~31:202111075316.3 ~32:14/09/2021

2021/07928 ~ Complete ~54:IMMUNOASSAY-BASED TUMOR MEDICATION GUIDANCE SYSTEM AND METHOD ~71:Zhuo'erkang (Beijing) Biotechnology Co., Ltd., A3764, No. 86, Wanxing Road, Changyang, Fangshan District, Beijing, 102488, People's Republic of China ~72: FENG, Xiao;HAN, Qiang;JIN, Yuanyuan;SHI, Beichen;WANG, Zhongbo;YANG, Zhaoyong;ZHANG, Zhifei~ 33:CN ~31:202011329998.1 ~32:24/11/2020

2021/07933 ~ Complete ~54:BLAST MOVEMENT MONITOR, SYSTEM AND METHOD ~71:LEICA GEOSYSTEMS PTY LTD, Level 16, 240 Queen Street, Australia ~72: DASGUPTA, Kausik;JANSE VAN RENSBURG, Jacques~ 33:AU ~31:2019902277 ~32:28/06/2019

2021/07941 ~ Complete ~54:COMPOSITIONS AND METHODS OF USING SENECA VALLEY VIRUS (SVV) FOR TREATING CANCER ~71:Seneca Therapeutics, Inc., 202 St. Andrews Court, BLUE BELL 19422, PA, USA, United States of America ~72: HALLENBECK, Paul L.~ 33:US ~31:62/832,509 ~32:11/04/2019

2021/07948 ~ Complete ~54:CONSTRAINTS ON QUANTIZED RESIDUAL DIFFERENTIAL PULSE CODE MODULATION REPRESENTATION OF CODED VIDEO ~71:BYTEDANCE INC., 12655 West Jefferson Boulevard, Sixth Floor, Suite No. 137, Los Angeles, California, 90066, United States of America ~72: HSIAO CHIANG CHUANG;JIZHENG XU;LI ZHANG;WEIJIA ZHU~ 33:CN ~31:PCT/CN2019/084008 ~32:24/04/2019

2021/07957 ~ Complete ~54:STABLE, LOW-VISCOSITY ANTIBODY FORMULATIONS AND USES THEREOF ~71:SANOVI, 54 rue La Boétie, France ~72: GANGULY, Manjori;GOKARN, Yatin;REMBERT, Kelvin;SALUJA, Atul~ 33:US ~31:62/837,518 ~32:23/04/2019;33:EP ~31:20305145.3 ~32:17/02/2020

2021/07927 ~ Complete ~54:SPEECH INTELLIGIBILITY ENHANCEMENT SYSTEM FOR PERSONS USING COVID-19 PROTECTIVE FACE MASKS ~71:DASH, Tusar Kanti, Electronics and Communication Engineering Department, C V Raman Global University-Odisha, India;GELMECHA, Demissie Jobir, Electronics and Communication Engineering Department, Adama Science and Technology University, Ethiopia;GOPIKRISHNA, Tiruveedula, School of Electrical Engineering and Computing, Adama Science and Technology University, Ethiopia;KALLA, Harish, Electronics and Communication Engineering Department, Adama Science and Technology University, Ethiopia;MISHRA, Satyasis, Electronics and Communication Engineering Department, Centurion University of Technology and Management, Odisha, India;PANDA, Ganapati, Electronics and Communication Engineering Department, C V Raman Global University-Odisha, India;RATHEE, Davinder Singh, Electronics and Communication Engineering Department, Adama Science and Technology University, Ethiopia;SAHOO, Prabodh Kumar, Electronics and Communication Engineering Department, C V Raman Global University-Odisha, India ~72: DASH, Tusar Kanti;GELMECHA, Demissie Jobir;GOPIKRISHNA, Tiruveedula;KALLA, Harish;MISHRA, Satyasis;PANDA, Ganapati;RATHEE, Davinder Singh;SAHOO, Prabodh Kumar~

2021/07939 ~ Complete ~54:INJECTION APPARATUS AND METHOD FOR USE ~71:pHi-Tech Animal Health Technologies Ltd., 2 Ha'Negev St., PO Box 1098, AIRPORT CITY 6101001, ISRAEL, Israel ~72: ASHASH, Udi;BENDHEIM, Jonathan M.;FINGER, Avner;GOLDENBERG, Gershon;HALAMISH, Asaf~ 33:US ~31:62/829,357 ~32:04/04/2019;33:US ~31:62/872,547 ~32:10/07/2019;33:US ~31:62/954,984 ~32:30/12/2019

2021/07930 ~ Complete ~54:HIGH SOLID CONTENT UREA-FORMALDEHYDE RESIN AND PREPARATION METHOD THEREOF ~71:Southwest Forestry University, No. 300, Southwest Forestry University, bailongsi,

Panlong District, Kunming city, Yunnan province, People's Republic of China ~72: Du Guanben;Lei Hong;Wang Hui;Zhou Xiaojian~

2021/07940 ~ Complete ~54:COMPOUNDS AND METHODS TARGETING HUMAN TAU ~71:Eli Lilly and Company, Lilly Corporate Center, INDIANAPOLIS 46206-6288, IN, USA, United States of America ~72: CHAI, Xiyun;CHEN, Jinbiao;DAGE, Jeffrey L.;DRIVER, David Albert;HINTON, Steven Fisher;SIEGEL, Robert William II;VAILLANCOURT, Peter Edward~ 33:US ~31:62/855,331 ~32:31/05/2019

2021/07899 ~ Complete ~54:MECHANICAL PENCIL WITH FUNCTION OF MAKING PENCIL LEAD EVENLY WRITING ~71:Linyi University, Middle Section of Shuangling Road, Linyi City, Shandong Province, 276000, People's Republic of China ~72: LIANG, Ruquan;SHI, Jianhui;SONG, Yuanmei;XU, Bowen;YANG, Liu;YANG, Yueting;ZHANG, Danhui;ZHANG, Dengbo~

2021/07904 ~ Complete ~54:PARKING GUIDANCE AND CONTROL SYSTEM BASED ON PARKING SPACE INFORMATION ~71:Shandong Jianzhu University, No.1000 Fengming Road, Licheng District, Jinan, Shandong Province, People's Republic of China ~72: Bai Ke;Chen Xi;He Zhiqiang;Li Dongyan;Li Xiaofeng;Liu Fanghan;Liu Zhendong;Lyu Xinrong;Qin Mengying;Yang Yurong~

2021/07910 ~ Complete ~54:LOW TEMPERATURE PLASMA GENERATOR ~71:Yangzhou University, No.196 Huayang West Road, Hanjiang District, Yangzhou City, Jiangsu Province, People's Republic of China ~72: HAN FEI;LI DAYU;LIU SIXING;MIAO HONG;TIAN MINGHAI;ZHANG SHANWEN;ZHANG YANJUN~

2021/07915 ~ Complete ~54:METHOD FOR DETERMINING AN OPTIMAL ARRANGEMENT OF CIRCULAR PIPE SUPPORTS OF STEEL SILO COMPOSITE SHEAR WALL ~71:QINGDAO UNIVERSITY OF TECHNOLOGY, No. 11 Fushun Road, Shibei District, Qingdao, Shandong, 266033, People's Republic of China ~72: WANG, Xuan;YU, Dehu;YU, Yousheng;ZHOU, Qilin~ 33:CN ~31:201910839585.9 ~32:06/09/2019

2021/07898 ~ Complete ~54:LOG DATA AUGMENTATION METHOD BASED ON CONTRASTIVE LEARNING ~71:Guangdong Polytechnic Normal University, No.293, West of Zhongshan Avenue, Tianhe District, Guangzhou City, Guangdong Province, People's Republic of China ~72: He KangJian;Huang ZhiHao;Liu Lan;Wu WenHuang;Wu YaFeng;Yu YongJie;Zhong KeWei~

2021/07909 ~ Complete ~54:FORAGE GRASS SAMPLING SCISSORS ~71:Qingdao Agricultural University, 700 Changcheng Road, Chengyang District, Qingdao City, Shandong Province, People's Republic of China ~72: Li Jiandong;Wang Xiangyu;Yan Weilan;Zhang Yu~

2021/07920 ~ Complete ~54:FLUORINE-CONTAINING COMPOUND AND ANTI-CANCER MEDICAL USE THEREOF ~71:ASCENTAWITS PHARMACEUTICALS, LTD., Room 1003, 10th Floor, Building 10, Biomedical Innovation Industrial Park, No.14 Jinhui Road, People's Republic of China ~72: CAI, Xiaohong;DUAN, Jianxin;LI, Anrong;MENG, Fanying~ 33:CN ~31:201910392606.7 ~32:13/05/2019;33:CN ~31:201911324466.6 ~32:20/12/2020

2021/07911 ~ Complete ~54:SPECIAL ROAD SURFACE OIL CLEANING DEVICE ~71:SHANDONG JIAOTONG UNIVERSITY, NO.5001, HAITANG ROAD, CHANGQING UNIVERSITY SCIENCE PARK, People's Republic of China ~72: LI, FANGYUAN;LV, PENGWEI;ZHAO, CHANGLI~

2021/07918 ~ Complete ~54:PREPARATION OF METAL FLUORIDES AND SEPARATION PROCESSES ~71:PHILIPPS-UNIVERSITÄT MARBURG, BIEGENSSTRASSE 10, 35037 MARBURG, GERMANY, Germany;TECHNISCHE UNIVERSITÄT MÜNCHEN, ARCSSTRASSE 21, D-80333, MÜNCHEN, GERMANY, Germany ~72: CHEMNITZ, Tobias;KRAUS, Florian;PETRY, Winfried;RUDEL, Stefan;STENE, Riane;STEYER, Christian~ 33:EP ~31:19164391.5 ~32:21/03/2019

2021/07952 ~ Complete ~54:A PIPE WEAR MONITORING SYSTEM AND METHOD OF USE THEREOF ~71:2C HOLDINGS PTY LTD, 15 Logan Crescent , Erakala, Queensland, 4740, Australia ~72: COLIN NEIL EAMES;COREY VAUGHAN~ 33:AU ~31:2019901154 ~32:04/04/2019

2021/07937 ~ Complete ~54:CRYSTALLINE FORMS AND METHODS OF PRODUCING CRYSTALLINE FORMS OF A COMPOUND ~71:Ligand Pharmaceuticals Inc., 3911 Sorrento Valley Boulevard, Suite 110, SAN DIEGO 92121, CA, USA, United States of America ~72: SASMOR, Henri;ZHI, Lin~ 33:US ~31:62/836,517 ~32:19/04/2019

- APPLIED ON 2021/10/19 -

2021/08012 ~ Complete ~54:RESISTANCE EXERCISE APPARATUS ~71:FORTUIN, Newton Buchanon, 12 Jonkershoek Street, South Africa;VAN NIEKERK, Johannes Hermanus, 70 Firmount Road, Briza Estate, South Africa ~72: FORTUIN, Newton Buchanon;VAN NIEKERK, Johannes Hermanus~ 33:ZA ~31:2019/01721 ~32:20/03/2019

2021/07964 ~ Complete ~54:ENGINEERING SLURRY WITH ADJUSTABLE FLUIDITY ALONG WITH SHEAR RATE, PREPARATION METHOD AND APPLICATION THEREOF ~71:Xijing University, No. 1 Xijing Road, Chang'an District, Xi'an City, Shaanxi Province, 710123, People's Republic of China ~72: Fu Shaojun;Liu Kaide;Yang Shasha;Yuan Kekuo;Zhang Hao;Zhang Jingxian~

2021/07966 ~ Complete ~54:METHOD FOR FEEDING HERMETIA ILLUCENS AND PREPARING COMPOSITE MATERIAL OF PUPARIUMS ~71:Sichuan University of Science and Engineering, 519 Hui Xing Road, Ziliujing District, Zigong City, Sichuan Province, 643000, People's Republic of China;Sichuan Zhirenfa Biotechnology Co., Ltd, 180 Hui Hing Road, Xueyuan Street, Zigong City, Sichuan Province, People's Republic of China;Sichuan Zhixiangyi Technology Co., Ltd, No. GW1101 Floor 11 Building 9-2, 75 Cui Jiadian Road, Chenghua District, Chengdu city, Sichuan Province, People's Republic of China;Tsou, Chi-Hui, No. GW1101, Floor 11, Building 9-2, 75 Cui Jiadian Road, Chenghua District, Chengdu city, Sichuan province, People's Republic of China ~72: Cui Xuejun;Du Juan;Gao Chen;Hu XueFei;Jia chunfen;Li Yu;Qu ChangLei;Sheng Kexing;Tsou Chi-Hui;Wang Ping;Yang Tao;Yi Jia;Zeng Rui;Zhang Xuemei;Zhao Wenbin;Zhou Li;Zou JiaJun~

2021/08010 ~ Complete ~54:LAMELLAR LIQUID CLEANSERS COMPRISING ACYL ISETHIONATE AND METHYL ACYL TAURATE SURFACTANT MIXTURES ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: DOUGLAS JOHN HIBAN;JAMIE LYNN MILLER;TIRUCHERAI VARAHAN VASUDEVAN~ 33:EP ~31:19175537.0 ~32:21/05/2019

2021/08009 ~ Complete ~54:PROCESS FOR MAKING DRUG CRYSTALS OF DESIRED SIZE DISTRIBUTION AND MORPHOLOGY ~71:EUPRAXIA PHARMACEUTICALS INC., 2067 Cadboro Bay Road, Unit 201, Victoria, British Columbia, V8R 5G4, Canada ~72: AMANDA MALONE;AZADEH GOUDARZI;GINA STETSKO;MICHAEL GAINES;TROY LOSS~ 33:US ~31:62/832,179 ~32:10/04/2019

2021/07982 ~ Complete ~54:AN AUXILIARY BUNDLING DEVICE FOR PLASTIC PACKAGING BAGS ~71:BEIJING INSTITUTE OF GRAPHIC COMMUNICATION, No. 1 (Band -2) Xinghua Street, Daxing District, People's Republic of China ~72: CHENG, Qian;LI, Xin;LIU, Shilu;QI, Yuansheng;ZHANG, Yazhou;ZHANG, Yongbin~ 33:CN ~31:202110615855.5 ~32:02/06/2021

2021/07984 ~ Complete ~54:METHOD FOR PREPARING HIGH TIO2 GRADE MATERIAL FROM ILMENITE MIDDINGS ~71:HENAN BILLIONS ADVANCED MATERIAL CO., LTD, 1669 Jiaoke Road, Zhongzhan District, Jiaozuo City, Henan, 454150, People's Republic of China ~72: CHEN, Jianli;CHEN, Shuzhong;DOU, Jun;HE, Gaofeng;LI, Zhenzhen~ 33:CN ~31:202011186492.X ~32:30/10/2020

2021/07987 ~ Complete ~54:BACTERICIDAL AGENT FOR AGRICULTURAL OR HORTICULTURAL USE, PLANT DISEASE CONTROL METHOD, AND PRODUCT FOR PLANT DISEASE CONTROL USE ~71:KUREHA CORPORATION, 3-3-2, Nihonbashi-Hamacho, Chuo-ku, Japan ~72: ISHIKAWA, Mayumi;KIMURA, Erina;KOSHIYAMA, Tatsuyuki;TATEISHI, Hideaki~ 33:JP ~31:2019-080497 ~32:19/04/2019

2021/07989 ~ Complete ~54:FRAMEWORK AND OFFSHORE SUPPORT STRUCTURES MADE THEREOF ~71:SINN POWER GMBH, Germeringer Strasse 9, Germany ~72: SINN, Philipp~ 33:DE ~31:10 2019 203 881.6 ~32:21/03/2019

2021/08000 ~ Complete ~54:SPRAY-DRIED FORMULATION OF A PYRIDAZINONE TRPC5 INHIBITOR ~71:Goldfinch Bio, Inc., 215 First Street, CAMBRIDGE 02142, MA, USA, United States of America ~72: CORSON, Donald T.;KWONG, Elizabeth Chu;SCHLESINGER, Erica B.;SMITHEY, Daniel T.;STUMPFIG, Thomas E.~ 33:US ~31:62/832,632 ~32:11/04/2019;33:US ~31:62/991,315 ~32:18/03/2020

2021/08001 ~ Complete ~54:PROBIOTIC BACTERIAL STRAINS THAT PRODUCE SHORT CHAIN FATTY ACIDS AND COMPOSITIONS COMPRISING SAME ~71:The Procter & Gamble Company, One Procter & Gamble Plaza, CINCINNATI 45202, OH, USA, United States of America ~72: JANUSZ, Michael John;PLECHATY, Anna Malgorzata~ 33:US ~31:62/841,385 ~32:01/05/2019

2021/08005 ~ Complete ~54:PREFABRICATED ASSEMBLED O-SHAPED BEAM FOR URBAN RAIL TRANSIT AND ELEVATED BRIDGE ~71:JINAN RAIL TRANSIT GROUP CO., LTD., Jinan Rail Transit Building, No. 5, East Jiefang Road, Lixia District, Jinan, People's Republic of China ~72: LIU, Jiahai;LU, Linhai;WANG, Shudong~ 33:CN ~31:201910213813.1 ~32:20/03/2019

2021/08006 ~ Complete ~54:INSURANCE MANAGEMENT SERVER, SERVICE PROVIDING SYSTEM, AND SERVICE PROVIDING METHOD ~71:WARRANTEE INC., 1103 2-4-1 Doshomachi Chuo-ku Osaka-shi, Osaka, 5410045, Japan ~72: YUSUKE SHONO~ 33:JP ~31:2019-053356 ~32:20/03/2019

2021/07963 ~ Complete ~54:COMPLEX LAMPLIGHT CONTROL DEVICE FOR PESTS AND CONTROL METHOD ~71:Institute of Plant Protection, Henan Academy of Agricultural Sciences, 116 Huayuan Road, Jinshui District, Zhengzhou, Henan, 450002, People's Republic of China ~72: DUAN, Yun;GONG, Zhongjun;JIANG, Yueli;LI, Tong;MIAO, Jin;WU, Yuqing~ 33:CN ~31:202110842509.0 ~32:26/07/2021

2021/07986 ~ Complete ~54:A MULTI-MATERIAL DEVICE FOR HEAT TRANSFER AND A METHOD OF MANUFACTURE ~71:TITOMIC LIMITED, Building 3, 270 Ferntree Gully Road, Notting Hill, Australia ~72: LANG, Jeffrey David;MODI, Jayesh;PAPYAN, Vahram;PARASURAMAN, Bharath;TAYLOR, Steven Ronald~ 33:AU ~31:2019901156 ~32:04/04/2019

2021/07991 ~ Complete ~54:METAL ORTHODONTIC MOUTH GAG ~71:The Second Affiliated Hospital of Chongqing Medical University, No. 76, Linjiang Road, Yuzhong District, Chongqing, 400010, People's Republic of China ~72: WANG, Shengguo~ 33:CN ~31:201910832948.6 ~32:04/09/2019

2021/07998 ~ Complete ~54:ANTIBACTERIAL COMPOUNDS ~71:Guangzhou Institutes of Biomedicine and Health,Chinese Academy of Sciences, 190 Kai Yuan Avenue, Science Park, GUANGZHOU 510530, GUANGDONG, CHINA (P.R.C.), People's Republic of China;The University of Birmingham, Edgbaston, BIRMINGHAM B15 2TT, WEST MIDLANDS, UNITED KINGDOM, United Kingdom ~72: ALDERWICK, Luke John;FEULA, Antonio;FOSSEY, John S.;NEAGOIE, Cleopatra Daniela;PENG, Xudan;TORTORELLA, Micky Daniel;YOSHIZAWA, Akina~

2021/08007 ~ Complete ~54:SYSTEM FOR ONBOARD ELECTRONIC ENCODING OF THE CONTENTS AND ADMINISTRATION PARAMETERS OF IV CONTAINERS AND THE SECURE USE AND DISPOSAL THEREOF

~71:ICU MEDICAL, INC., 951 Calle Amanecer, San Clemente, California, 92673, United States of America ~72: ANANDARAMAN VITHYANANTHAN;MARSHALL FRYMAN;MATTEO PICINICH;PRITISH JAIN;SYEDJAVID SYED KHADAR;UJJAWAL KUMAR;YUN SHAO TSAI~ 33:IN ~31:201911015467 ~32:17/04/2019

2021/07988 ~ Complete ~54:PIC1 PEPTIDE COMPOSITIONS AND METHODS OF USE THEREOF FOR TREATMENT OF HYPOXIC ISCHEMIC ENCEPHALOPATHY ~71:REALTA HOLDINGS, LLC, 601 Children's Lane, United States of America ~72: CUNNION, Kenji;KRISHNA, Neel K.;SHAH, Tushar~ 33:US ~31:62/853,377 ~32:28/05/2019

2021/07990 ~ Complete ~54:CELL-FREE PROTEIN SYNTHESIS METHOD ~71:JIANGSU ZHIDIAN BIOTECHNOLOGY CO., LTD., 3rd Floor, Building 4, Phase 1, No. 10 Zhujiang East Road, Third Industrial Park High-tech Industrial Development Zone, Tongshan District, Xuzhou, Jiangsu 221000, People's Republic of China ~72: KAI, Lei~ 33:CN ~31:202010190489.9 ~32:18/03/2020

2021/07994 ~ Complete ~54:WIDE ANGLE SPRAY NOZZLE ~71:Spraying Systems Co., North Avenue and Schmale Road, WHEATON 60187, IL, USA, United States of America ~72: ARENSON, Marc;CEDERBERG, Daniel~ 33:US ~31:62/846,055 ~32:10/05/2019

2021/07996 ~ Complete ~54:PROCESS OF MANUFACTURING BIODEGRADABLE PET CHIPS ~71:CHATURVEDI, Ashok, 305, III Floor, Bhanot Corner, Pamposh Enclave, GK-1, NEW DELHI 110048, INDIA, India ~72: CHATURVEDI, Ashok~ 33:IN ~31:201911010930 ~32:20/03/2019

2021/08002 ~ Complete ~54:PARTICLE TREATMENT COMPOSITIONS COMPRISING AN ANTIOXIDANT ~71:The Procter & Gamble Company, One Procter & Gamble Plaza, CINCINNATI 45202, OH, USA, United States of America ~72: DITULLIO Jr., Daniel Dale;MIRACLE, Gregory Scot;WANG, Yuexi~ 33:EP ~31:19172551.4 ~32:03/05/2019

2021/08004 ~ Complete ~54:DEVICE FOR CONTROLLING A CONTAINER, PARTICULARLY A BOTTOM-DUMP CONTAINER ~71:NOSYREV, Sergey Vasil'evich, ul. Chudnovskogo, d.8, korp.1, kv.523, Russian Federation ~72: NOSYREV, Sergey Vasil'evich~

2021/07977 ~ Complete ~54:BACILLUS SUBTILIS, MICROBIAL INOCULUM, AND USE THEREOF IN CONTROLLING PLANT DISEASES ~71:QINGDAO AGRICULTURAL UNIVERSITY, No.700, Changcheng Road, Chengyang District, Qingdao City, Shandong Province, 266000, People's Republic of China ~72: LI Yahua;XIAN Hongquan;ZHANG Qihang~ 33:CN ~31:202110196171.6 ~32:22/02/2021

2021/07980 ~ Complete ~54:WATERLOGGING PREVENTION GREEN BELT STRUCTURE BASED ON SPONGE CITY ~71:Linyi University, West side of north section of Gongye Avenue, Lanshan District, Linyi City, Shandong Province, 276000, People's Republic of China ~72: Jia Chuanyang;Song Xiaoyuan;Sun Xizhen;Wang Hailong;Yu Xianbin;Zhang Guibin~ 33:CN ~31:202011416999X ~32:07/12/2020

2021/07972 ~ Complete ~54:ASTAXANTHIN PICKERING EMULSION AND PREPARATION METHOD THEREOF ~71:Ocean University of China, No.238, Songling Road, Laoshan District, Qingdao, Shandong, 266100, People's Republic of China ~72: CAI, Hanfei;JIANG, Xiaoming;LI, Jing;QIAO, Xing;TANG, Qingjuan;WANG, Yuming;WEI, Zihao;XU, Jie;XUE, Changhu;YANG, Lu~ 33:CN ~31:202110485240.5 ~32:30/04/2021

2021/07961 ~ Complete ~54:STUDENT SEAT SIGN-IN DEVICE ~71:Linyi University, Shuangling Road, Lanshan District, Linyi City, Shandong Province , 276000, People's Republic of China ~72: LI, Kaicai~

2021/07974 ~ Complete ~54:PREPARATION METHOD OF THERANOSTIC AGENT WITH MONODISPERSE HETERONUCLEAR DIATOMIC ACTIVE SITES AND USE THEREOF ~71:LINYI UNIVERSITY, Middle Section of Shuangling Road, Lanshan District, Linyi City, Shandong Province , 276005, People's Republic of China ~72: DAI, Zhichao;HU, Zunfu;SUN, Yunqiang;WANG, Shan;WEI, Qiulian;ZHENG, Xiuwen~

2021/07960 ~ Complete ~54:ULTRA-HIGH PERFORMANCE LIQUID CHROMATOGRAPHY COUPLED WITH TANDEM MASS SPECTROMETRY METHOD FOR MEASURING ISOTOPE DILUTION ~71:Chongqing University Cancer Hospital, No. 181, Hanyu Road, Shapingba District, Chongqing, 400030, People's Republic of China ~72: HE, Yongpeng;LI, Jiatao;LI, Lixian;LI, Yongsheng;SHAN, Juanjuan;WANG, Mengzhu;ZHANG, Haiwei;ZHAO, Huakan~ 33:CN ~31:202011338317.8 ~32:25/11/2020

2021/08011 ~ Complete ~54:A HEAVE COMPENSATING SYSTEM FOR A FLOATING DRILLING VESSEL ~71:ODFJELL DRILLING AS, P.O.Box 33, Kokstad, N-5863 Bergen, Norway ~72: HÅKON KLEPSVIK;PER LUND;RUNE STANGHELLE;THOMAS BORSHOLM~ 33:NO ~31:20190492 ~32:10/04/2019

2021/07976 ~ Complete ~54:SALT-TOLERANT, POTASSIUM-RELEASING AND GROWTH-PROMOTING MICROBACTERIUM OXYDANS 41-C8, MICROBIAL INOCULUM, AND USE THEREOF ~71:QINGDAO AGRICULTURAL UNIVERSITY, No.700, Changcheng Road, Chengyang District, Qingdao City, Shandong Province, 266000, People's Republic of China ~72: BAI Yang;GUO Yanping;LI Yahua;LIU Guangchao;LIU Xin;YE Qing;ZHANG Jingying~ 33:CN ~31:202110289660.6 ~32:16/03/2021

2021/07992 ~ Complete ~54:ELECTROCHEMICAL STORAGE DEVICES COMPRISING CHELATED METALS ~71:The Regents of the University of Colorado, a body corporate, 1800 Grant Street, 8th Floor, DENVER 80203, CO, USA, United States of America;WATERS, Scott, 1800 Grant Street, 8th Floor, DENVER 80203, CO, USA, United States of America ~72: MARSHAK, Michael;ROBB, Brian Hallett;WATERS, Scott~ 33:US ~31:62/821,227 ~32:20/03/2019

2021/07997 ~ Complete ~54:COMPOSITIONS AND METHODS FOR WEED CONTROL ~71:Syngenta Crop Protection AG, Rosentalstrasse 67, BASEL 4058, SWITZERLAND, Switzerland ~72: BATCHELOR, Anthea Karin;BLAIN, Rachael Elizabeth;BROCKLEHURST, David;DALE, Richard;GOODWIN, Leslie Jillian;HORTA SIMÕES, Marta Andreia;LANGFORD, Michael Phillip;NOBLE, Christian Guy;SEVILLE, Anne Mary;WAILES, Jeffrey Steven~ 33:US ~31:62/850,248 ~32:20/05/2019

2021/07968 ~ Complete ~54:METHOD FOR RAPIDLY DETECTING COMPACTION DEGREE OF RED CLAY ~71:Changsha University of Science and Technology, No. 960, Section 2, Wanjiali South Road, Tianxin District, Changsha City, Hunan Province, 410114, People's Republic of China ~72: HUANG, Yuqi;LEI, Ruochen;LI, Ping;LI, Xi;LIU, Zhenyu;QIAN, Guoping;SHEN, Yanliang;SU, Min;WANG, Dangrui;WANG, Ruizhi~ 33:CN ~31:202110668694.6 ~32:16/06/2021

2021/07985 ~ Complete ~54:A SYSTEM FOR DIGITAL TRANSFORMATION OF SHG FUNDING AND SAVINGS ~71:DR. ANKUR GOEL, Associate Professor, Commerce & Management Dewan VSGI, , Mussoorie By Pass Road, NH-58 Partapur,, Meerut , Uttar Pradesh, 250003, India;DR. MITAL SHARDUL BHAYANI, Associate Professor, MET Bhujbal Knowledge City Institute of Management,, Bhujbal Knowledge City, Adgaon, , Nashik, Maharashtra, 422003, India;DR. NAMITA MISHRA, Associate professor, Tecnia Instítute of Advanced Studies, , 3 PSP, Institutional Area Madhuban Chowk, Bhagwan Mahavir Marg, Sector 14, Rohini, , New Delhi, Delhi, 110085, India;DR. NEERJA KASHIVE, Faculty HR, Vivekanand Education Society's Institute of Management Studies and Research, , Hashu Advani Memorial Complex, 495/497 Collector's Colony, Chembur, , Mumbai, Maharashtra, 400074, India;DR. PANKAJ SHARMA, Associate Professor, Head of Department,, IEC UNIVERSITY , Baddi, , Himachal Pradesh, 174103, India;DR. PRIYANK SHARMA, Professor, School of Commerce & Management, IIMT university, , Mawana Rd, O Pocket, Ganga

Nagar,, Meerut, Uttar Pradesh , 250001, India;DR. RAMA SHARMA, Assistant Professor, Chandigarh Business School of Administration, Chandigarh Group of Colleges,, Landran, Kharar-Banur Highway, Sector 112,, Greater Mohali, Punjab , 140307, India;DR. RITU KOTHIWAL, Associate Professor, Vishwas Vishwani Institute of Systems & Management, Boston House, Thumkunta, Hakimpet (Via) Secundrabad , Hyderabad, Telangana, 500078, India;DR. VANDANA T. KHANNA, Professor and Program Coordinator, PhD, K J Somaiya Institute of Management, , Somaiya Vidyavihar University, Vidyavihar, , Mumbai , Maharashtra , 400077, India;MR. RAVI PARKASH, Assistant Professor, Maharishi Markandeshwar (Deemed to be University), , Ambala - Yamunanagar Highway, Mullana - Ambala,, Ambala, Haryana, 133207, India;MR. VINOD KUMAR BAGAR, Assistant Professor, Management Dewan VSGI, , Mussoorie By Pass Road, NH-58 Partapur,, Meerut, Uttar Pradesh , 250003, India;PROF. GITA SASHIDHARAN, Faculty GM, K J Somaiya Institute of Management,, Somaiya Vidyavihar University, Vidyavihar,, Mumbai, Maharashtra , 400077, India;PROF. RAMESH CHANDRA PANDA, Chief Scientist, Wegrow Private LTD, Bhubaneswar, Odisha, 751001, India ~72: DR. ANKUR GOEL;DR. MITAL SHARDUL BHAYANI;DR. NAMITA MISHRA;DR. NEERJA KASHIVE;DR. PANKAJ SHARMA;DR. PRIYANK SHARMA;DR. RAMA SHARMA;DR. RITU KOTHIWAL;DR. VANDANA T. KHANNA;MR. RAVI PARKASH;MR. VINOD KUMAR BAGAR;PROF. GITA SASHIDHARAN;PROF. RAMESH CHANDRA PANDA~

2021/07979 ~ Complete ~54:SPONGE URBAN RAINWATER STORAGE STRUCTURE ~71:Linyi University, West side of north section of Gongye Avenue, Lanshan District, Linyi City, Shandong Province, 276000, People's Republic of China ~72: Jia Chuanyang;Song Xiaoyuan;Sun Xizhen;Wang Hailong;Yu Xianbin;Zhang Guibin~ 33:CN ~31:2020114189156 ~32:07/12/2020

2021/07983 ~ Complete ~54:CONNECTING DEVICE ~71:BOTHMA, Karen Dawn, 28 Provan Road, Thornhill Estate, South Africa;BOTHMA, Wayne Anthony, 28 Provan Road, Thornhill Estate, South Africa ~72: BOTHMA, Wayne Anthony~

2021/07993 ~ Complete ~54:USE OF ANTI-PD-1 ANTIBODY IN PREPARATION OF MEDICAMENT FOR TREATING SOLID TUMORS ~71:Shanghai Junshi Biosciences Co., Ltd., Floor 13, Building 2, Nos. 36 And 58, Haiqu Road, Pilot Free Trade Zone, SHANGHAI 201210, CHINA (P.R.C.), People's Republic of China ~72: FENG, Hui;WU, Hai;YAO, Sheng~ 33:CN ~31:201910310345.X ~32:17/04/2019

2021/07999 ~ Complete ~54:ANTIBODIES BINDING TO GPRC5D ~71:F. Hoffmann-La Roche AG, Grenzacherstrasse 124, BASEL 4070, SWITZERLAND, Switzerland ~72: BUJOTZEK, Alexander;CHRISTOPEIT, Tony;FAUTI, Tanja;FERTIG, Georg;HAEGEL, Hélène Cécile;KLEIN, Christian;KRAFT, Thomas;LORENZ, Stefan;MAYOUX, Maud Léa;SCHNEIDER, Anneliese~ 33:EP ~31:19189255.3 ~32:31/07/2019

2021/08008 ~ Complete ~54:DETERMINING, SCORING, AND REPORTING MOBILE PHONE DISTRACTION OF A DRIVER ~71:CAMBRIDGE MOBILE TELEMATICS INC., 314 Main Street, Suite 1200, Cambridge, Massachusetts, 02142, United States of America ~72: HARI BALAKRISHNAN;JUN-GEUN PARK;SAMUEL ROSS MADDEN;WILLIAM BRADLEY~ 33:US ~31:16/403,761 ~32:06/05/2019;33:US ~31:16/403,776 ~32:06/05/2019

2021/07971 ~ Complete ~54:HAND HELD SPECIAL SYRINGE FOR SHEEP EPIDEMIC PREVENTION ~71:Qingdao Agricultural University, 700 Changcheng Road, Chengyang District, Qingdao City, Shandong Province, People's Republic of China;Qingdao Tiangen Biotechnology Engineering Co, Ltd, 115 Yanyang road, Chengyang District, Qingdao City, Shandong Province, People's Republic of China ~72: Gao Tongrui;Li Xiaoman;Meng Jinxin;Ni Hongbo;Wang Xiangyu;Zhang Xiaoxuan~

2021/07995 ~ Complete ~54:PRODUCTION METHOD FOR NANOFIBER AGGREGATES, PRODUCTION APPARATUS FOR NANOFIBER AGGREGATES, AND NANOFIBER AGGREGATES ~71:M-TEchX Inc., 25-9, Shinkawa 1-chome, Chuo-ku, TOKYO 1400033, JAPAN, Japan ~72: SOTA, Hiroyoshi~ 33:JP ~31:2019-051961 ~32:19/03/2019

2021/07967 ~ Complete ~54:METHOD AND DEVICE FOR DETERMINING EVALUATION INDEX OF EFFECTIVE REINFORCEMENT RANGE ~71:Changsha University of Science and Technology, No. 960, Section 2, Wanjiaili South Road, Tianxin District, Changsha City, Hunan Province, 410114, People's Republic of China ~72: CAI, Jun;GONG, Xiangbing;LI, Xi;QIAN, Guoping;YANG, Hui;YU, Huanan;ZHANG, Jingyu;ZHOU, Hongyu~ 33:CN ~31:202110029350.0 ~32:11/01/2021

2021/07969 ~ Complete ~54:AN ENEMA PHARMACEUTICAL COMPOSITION FOR TREATING DIARRHEA OF PIGLET ~71:Qingdao Agricultural University, 700 Changcheng Road, Chengyang District, Qingdao City, Shandong Province, People's Republic of China ~72: Geng Hongli;Ma He;Meng Xiangzhu;Ni Hongbo;Yang Xinbo;Zhang Xiaoxuan;Zhang Yuan;Zhao Quan~

2021/07975 ~ Complete ~54:BACILLUS AMYLOLIQUEFACIENS, MICROBIAL INOCULUM, AND PREPARATION METHOD AND USE THEREOF ~71:QINGDAO AGRICULTURAL UNIVERSITY, No.700, Changcheng Road, Chengyang District, Qingdao City, Shandong Province , 266000, People's Republic of China ~72: LI Yahua;LIU Guangchao;LIU Xin;YE Qing;ZHAO Fanggui;ZHAO Lin~ 33:CN ~31:202011568910.1 ~32:25/12/2020

2021/07978 ~ Complete ~54:IMPROVEMENTS IN OR IN RELATION TO CUP HOLDERS ~71:TOURING ESSENTIALS PTY LTD, 27 Mongabarra Street, Australia ~72: Anthony ROSET~ 33:AU ~31:2020903853 ~32:23/10/2020

2021/07958 ~ Provisional ~54:SAFE EDGE ~71:Andries Stephan van der Sandt, 890 Mortimer avenue. Mayville, South Africa ~72: Andries Stephan van der Sandt~

2021/07962 ~ Complete ~54:PREPARATION DEVICE FOR PREPARING BUFFER SOLVENT ~71:UNION HOSPITAL TONGJI MEDICAL COLLEGE HUAZHONG UNIVERSITY OF SCIENCE AND TECHNOLOGY, 1277 Jiefang Avenue, Jiangnan District, Wuhan City, Hubei Province, 430022, People's Republic of China ~72: DONG, Feng;LI, Jingwen;LI, Xiang;MEI, Surong;WANG, Xinyi;XIONG, Nian;YAN, Jin;YANG, Qian;ZHENG, Tao;ZHU, Chunli~ 33:CN ~31:202110027398.8 ~32:10/01/2021

2021/07970 ~ Complete ~54:AN OPTIMIZATION METHOD FOR IMPROVING WRITE PERFORMANCE OF 3D FLASH CHIPS IN SOLID STATE DISKS ~71:Nanchang Hangkong University, No. 696 Fenghe South Avenue, Nanchang City, Jiangxi, People's Republic of China ~72: He Dan;He Ying;Mei Yuan;Xu Wen;Yan Sixiang~ 33:CN ~31:202110368279.9 ~32:06/04/2021

2021/07973 ~ Complete ~54:MULTI-USER DETECTION METHOD BASED ON UPLINK GRANT-FREE NOMA SYSTEM ~71:Tangshan University, No.9, West Daxue Road, Lubei District, Tangshan City, Hebei Province , 063000, People's Republic of China ~72: MA, Zhuang;TANG, Wanwei~ 33:CN ~31:202110556854.8 ~32:21/05/2021

2021/07981 ~ Complete ~54:MATERIALS AND METHODS FOR ENGINEERING CELLS AND USES THEREOF IN IMMUNO-ONCOLOGY ~71:CRISPR THERAPEUTICS AG, Baarerstrasse 14, 6300, Zug, Switzerland ~72: DEMETRIOS KALAITZIDIS;JONATHAN ALEXANDER TERRETT;LAWRENCE KLEIN~ 33:US ~31:62/505,649 ~32:12/05/2017;33:US ~31:62/508,862 ~32:19/05/2017;33:US ~31:62/538,138 ~32:28/07/2017;33:US ~31:62/567,008 ~32:02/10/2017;33:US ~31:62/567,012 ~32:02/10/2017;33:US ~31:62/583,793

~32:09/11/2017;33:US ~31:62/639,332 ~32:06/03/2018;33:US ~31:62/648,138 ~32:26/03/2018;33:US
~31:62/655,510 ~32:10/04/2018

2021/08003 ~ Complete ~54:DEVICES AND SYSTEMS FOR WATER TREATMENT ~71:Innovative Water Care, LLC, 1400 Bluegrass Lakes Parkway, ALPHARETTA 30004, GA, USA, United States of America ~72: BLANCHETTE, David W.;MULLER, Matthew~ 33:US ~31:62/842,921 ~32:03/05/2019

2021/07959 ~ Complete ~54:A METHOD AND DEVICE FOR CONSTRUCTING MULTI PERIOD HIGH-DIMENSIONAL PROJECTION UNIT COMMITMENT MODEL ~71:GUANGXI UNIVERSITY, No. 100 Daxue East Road, Nanning City, Guangxi, 530004, People's Republic of China ~72: CHEN, Shifei;FANG, Beihua;LI, Wei;YANG, Linfeng~ 33:CN ~31:202011208689.9 ~32:03/11/2020

2021/07965 ~ Complete ~54:SEPARATION AND PURIFICATION METHOD OF GLYCOSAMINOGLYCAN AND PREPARATION METHOD OF SULFATED OLIGOSACCHARIDE ~71:Zhejiang University, 866 Yuhangtang Rd, Hangzhou, 310058, People's Republic of China ~72: CHEN, Shiguo;HOU, Zhiqiang;WANG, Yuying;WU, Xiaoyi;YE, Xingqian;YU, Chengxiao;ZHU, Kai~ 33:CN ~31:202110922492.X ~32:12/08/2021

- APPLIED ON 2021/10/20 -

2021/08028 ~ Complete ~54:METHOD FOR PRODUCING A PGM COLLECTOR ALLOY ~71:HERAEUS DEUTSCHLAND GMBH & CO. KG, HERAEUSSTRASSE 12-14, 63450 HANAU, GERMANY, Germany ~72: BAUER-SIEBENLIST, Bernhard;DITTRICH, Regina;WINKLER, Holger~ 33:EP ~31:EP19165155.3 ~32:26/03/2019

2021/08041 ~ Complete ~54:GROUND ENGAGING TIP AND GROUND ENGAGING TOOL ASSEMBLY ~71:CATERPILLAR INC., 100 NE Adams Street Peoria, United States of America ~72: BALAN, Mihai M.;MCCAFFREY, Brandon H.~ 33:US ~31:16/393,458 ~32:24/04/2019

2021/08022 ~ Complete ~54:CLAMP FOR MACHINE MANUFACTURING ~71:Jilin Institute of Chemical Technology, 45 Chengde Street, Longtan District, Jilin City, Jilin Province, People's Republic of China ~72: Li Jianwei;Wang Haiyan~

2021/08029 ~ Complete ~54:COMBINATIONS OF IADADEMSTAT FOR CANCER THERAPY ~71:ORYZON GENOMICS, S.A., CARRERA DE SAN JERONIMO 15, 2A PLANTA, 28014 MADRID, SPAIN, Spain ~72: CICERI, Filippo~ 33:EP ~31:19382206.1 ~32:25/03/2019

2021/08042 ~ Complete ~54:A METHOD FOR PRODUCING MILK AND DAIRY SUPPLEMENTS WITH A UNIQUE FATTY ACID COMPOSITION, BY RESTORING THE COMMENSAL NATURAL MICROBIOTA ~71:LABAŠ, Miroslav, Textilná 1, KOŠICE 04001, SLOVAKIA, Slovakia ~72: LABAŠ, Miroslav~ 33:SK ~31:PP 50-2019 ~32:15/05/2019

2021/08016 ~ Provisional ~54:STEM APPLICATOR SPRAY DEVICE AND ASSOCIATED METHOD OF SPRAY ANALYSIS ~71:AVIMA (PTY) LIMITED, 18 Aschenberg Street, Chamdor, South Africa ~72: Frikk VENTER;Miek VENTER;Renier KRIEK~

2021/08024 ~ Complete ~54:COMMUNICATION EQUIPMENT AND COMMUNICATION METHOD FOR UNDERWATER DETECTION EQUIPMENT ~71:Jilin Institute of Chemical Technology, 45 Chengde Street, Longtan District, Jilin City, Jilin Province, People's Republic of China ~72: Wang Baoping;Wang Shun~

2021/08035 ~ Complete ~54:METHODS FOR RECOVERING A TARGET METAL FROM IRON OR STEEL SLAG USING AT LEAST ONE OF A CARBOTHERMIC REDUCTION PROCESS AND A PYRO-HYDROMETALLURGICAL PROCESS ~71:TENOVA GOODFELLOW INC, 10 KINGSBRIDGE GARDEN

CIRCLE, SUITE 601, MISSISSAUGA, ONTARIO L5R 3K6, CANADA, Canada;THE GOVERNING COUNCIL OF THE UNIVERSITY OF TORONTO, BANTING INSTITUTE, 100 COLLEGE STREET, SUITE 413, TORONTO, ONTARIO, M5G 1L5, CANADA, Canada ~72: AZIMI, Gisele;KIM, Jihye;MALFA, Enrico;SCIPOLO, Vittorio~ 33:US ~31:62/824,588 ~32:27/03/2019

2021/08044 ~ Complete ~54:COMPOSITIONS AND METHODS FOR PREPARING T CELL COMPOSITIONS AND USES THEREOF ~71:BioNTech US Inc., 40 Erie Street, Suite 110, CAMBRIDGE 02139, MA, USA, United States of America ~72: ANG, Robert;GAYNOR, Richard;JUNEJA, Vikram~ 33:US ~31:62/827,018 ~32:30/03/2019

2021/08052 ~ Complete ~54:FREEZE-DRIED PRODUCT AND GAS-FILLED MICROVESICLES SUSPENSION ~71:Bracco Suisse SA, Via Ponteggia 23, CADEMPINO 6814, SWITZERLAND, Switzerland ~72: BROCHOT, Jean;BUSSAT, Philippe;LASSUS, Anne;SCHNEIDER, Michel;YAN, Feng~ 33:US ~31:16/413,526 ~32:15/05/2019;33:US ~31:16/688,540 ~32:19/11/2019;33:US ~31:16/788,083 ~32:11/02/2020

2021/08018 ~ Provisional ~54:A BLOOD CLOT ALERT MEANS ~71:SeroMed Technologies (Pty) Ltd, 1 Fife Street, South Africa ~72: GABATHUSE, Onalethata Anne;KUMAR, Pradeep~

2021/08020 ~ Complete ~54:ELECTROLYTE FILLING STRUCTURE FOR LITHIUM BATTERIES ~71:Henan Huarui High-tech New material Co., Ltd., 50 meters west of the intersection of Jingshi Road and Weiwu Road, National Xinxiang Economic and Technological Development Zone, Xinxiang, People's Republic of China ~72: Wenju Cui;Xiaoping Meng;Yongkui Peng~ 33:CN ~31:202122209897.7 ~32:13/09/2021

2021/08031 ~ Complete ~54:ADAPTING UE SERVING CELL PROCEDURES BASED ON DL CCA OPERATIONAL INFORMATION ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83 STOCKHOLM, SWEDEN, Sweden ~72: KAZMI, Muhammad;RUNE, Johan;THANGARASA, Santhan~ 33:US ~31:62/825,749 ~32:28/03/2019

2021/08039 ~ Complete ~54:SPRING STEEL SLEEVE DESIGN ~71:CATERPILLAR INC., 100 NE Adams Street Peoria, United States of America ~72: JURA, Jason G.;SERRURIER, Douglas C.;SINN, Eric T.;WELLS, Corey M.~ 33:US ~31:16/392,959 ~32:24/04/2019

2021/08047 ~ Complete ~54:ORAL CARE COMPOSITIONS AND METHODS ~71:Colgate-Palmolive Company, 300 Park Avenue, NEW YORK 10022, NY, USA, United States of America ~72: MYERS, Carl;TANG, Sadie;XU, Guofeng;ZHANG, Shaoyi~ 33:US ~31:62/869,394 ~32:01/07/2019

2021/08056 ~ Complete ~54:METHOD FOR JOINING METAL PARTS ~71:ALFA LAVAL CORPORATE AB, P.O. Box 73, SE-221 00, Lund, Sweden ~72: AXEL KNUTSSON;KRISTIAN WALTER;PER SJÖDIN~ 33:SE ~31:1950640-1 ~32:29/05/2019

2021/08014 ~ Provisional ~54:DEVICE FOR DETERMINING AT LEAST ONE PHYSICAL PARAMETER OF AN OBJECT ~71:PEPLER, GRANT, UNIT 1096, DE VELDE ESTATE, South Africa ~72: PEPLER, GRANT~

2021/08019 ~ Complete ~54:ELECTROLYTE PREPARATION DEVICE FOR POWER LITHIUM BATTERIES ~71:Henan Huarui High-tech New material Co., Ltd., 50 meters west of the intersection of Jingshi Road and Weiwu Road, National Xinxiang Economic and Technological Development Zone, Xinxiang, People's Republic of China ~72: Wenju Cui;Xiaoping Meng;Yongkui Peng~ 33:CN ~31:202122209243.4 ~32:13/09/2021

2021/08021 ~ Complete ~54:ELECTROLYTE FILLING DEVICE FOR LITHIUM BATTERIES ~71:Henan Huarui High-tech New material Co., Ltd., 50 meters west of the intersection of Jingshi Road and Weiwu Road, National

Xinxiang Economic and Technological Development Zone, Xinxiang, People's Republic of China ~72: Wenju Cui;Xiaoping Meng;Yongkui Peng~ 33:CN ~31:202122207985.3 ~32:13/09/2021

2021/08025 ~ Complete ~54:COPPER TUNGSTATE PHOTOANODE FILM AND PREPARATION METHOD THEREOF ~71:North China University of Science and Technology, 21 Bohai Road, Caofeidian Xincheng, Tangshan, Hebei, 063210, People's Republic of China ~72: WANG, Jiansheng;ZENG, Xiongfeng~ 33:CN ~31:202011457192.0 ~32:10/12/2020

2021/08030 ~ Complete ~54:CIRCUIT BOARD FOR AN ELECTRIC VEHICLE CHARGING STATION ~71:EASEE AS, GRENSEVEIEN 19, 4313 SANDNES, NORWAY, Norway ~72: HELMIKSTØL, Jonas;MØLGAARD, Steffen;NÆSJE, Kjetil;STENGEL, Ola~ 33:NO ~31:20190387 ~32:22/03/2019

2021/08034 ~ Complete ~54:CRYSTALLINE SALT FORMS OF A KINASE INHIBITOR ~71:EXELIXIS, INC., 1851 Harbor Bay Parkway, Alameda, CA, United States of America ~72: BEVILL, Melanie, Janelle;DEMORIN, Frenel;JOHNSON, Courtney, S.;PARENT, Stephan, D.;SHAH, Khalid;SHAKYA, Sagar;WONG, Peter~ 33:US ~31:62/856,404 ~32:03/06/2019

2021/08036 ~ Complete ~54:VEHICLE FRAME, AERIAL TRANSPORTATION VEHICLE, AND AERIAL RAIL CONTAINER TRANSPORTATION METHOD ~71:CRRC YANGTZE CO., LTD., Daqiao New Area, Jiangxia Economic Development Zone, People's Republic of China ~72: CHEN, Zhiguo;CUI, Can;FENG, Ye;HOU, Jianyun;HUANG, Heng;LIU, Aiwen;LIU, Wei;LUO, Hui;SONG, Shaobo;SU, Lijie;WANG, Quanhu;WANG, Zixun;YAO, Xiong~ 33:CN ~31:201911417664.7 ~32:31/12/2019;33:CN ~31:201911423648.9 ~32:31/12/2019

2021/08040 ~ Complete ~54:TIP AND ADAPTER ASSEMBLY USING A SPRING STEEL SLEEVE DESIGN ~71:CATERPILLAR INC., 100 NE Adams Street Peoria, United States of America ~72: JURA, Jason G.;SERRURIER, Douglas C.;SINN, Eric T.;WELLS, Corey M.~ 33:US ~31:16/393,088 ~32:24/04/2019

2021/08043 ~ Complete ~54:LIDDED BOX-TYPE PACKAGING ~71:Focke & Co. (GmbH & Co. KG), Siemensstraße 10, VERDEN 27283, GERMANY, Germany ~72: BUSE, Henry;HEIN, Viktor;SCHNEIDER, Christoph~ 33:DE ~31:10 2019 002 635.7 ~32:10/04/2019

2021/08045 ~ Complete ~54:METHOD AND APPARATUS FOR THE TREATMENT OF VEGETABLE MATERIAL TO BE USED AS INFILL MATERIAL FOR SYNTHETIC AND/OR NATURAL TURFS ~71:NUSCA, Roberto, VIA DELLE MURELLA, 46, Loc. Arena Metato, SAN GIULIANO TERME (PI) 56010, ITALY, Italy ~72: NUSCA, Roberto~

2021/08053 ~ Complete ~54:AUTOCLAVED CEMENT COMPOSITIONS ~71:Imertech SAS, 43 quai de Grenelle, PARIS 75015, FRANCE, France ~72: BOUSSEAU, Jean-Noël;CHARPENTIER, Eric;ESPINOSA, Bruno;GROLLEAU, Jerome;NIEPMANN, Dirk~ 33:EP ~31:19305544.9 ~32:29/04/2019

2021/08057 ~ Complete ~54:CYLINDRICAL POROUS CARRIER AND PREPARATION METHOD THEREOF, AS WELL AS CATALYST AND APPLICATION THEREOF ~71:SHANDONG AIREP ENVIRONMENTAL TECHNOLOGY CO.,LTD, NO.2, GROUP 11, QIANBI VILLAGE, People's Republic of China ~72: BIAN, BO;GUO, YONG;REN, QIAN;RONG, WEILONG;SHENG, SHOUXIANG;YU, YANG;ZHANG, SHULE~ 33:CN ~31:202010381848.9 ~32:08/03/2020

2021/08026 ~ Complete ~54:ANTI-EROSION GREEN ECOLOGICAL SEAWALL CAPABLE OF COLLECTING MARINE GARBAGE ~71:Zhejiang University of Water Resources and Electric Power, No. 508, 2nd Street, Economic and Technological Development Zone, Hangzhou, Zhejiang Province, People's Republic of China ~72: Huang Saihua;Liu Yao;Nie Hui;Yang Yijun;Zhu Lili~

2021/08033 ~ Complete ~54:VASOACTIVE INTESTINAL PEPTIDE (VIP) FOR USE IN THE TREATMENT OF DRUG-INDUCED PNEUMONITIS ~71:ADVITA LIFESCIENCE GMBH, Alte Bundesstr. 20, Gundelfingen, Germany ~72: FRYE, Björn Christian;MÜLLER-QUERNHEIM, Joachim~ 33:EP ~31:19000219.6 ~32:07/05/2019

2021/08054 ~ Complete ~54:GLASS PROCESSING SYSTEM WITH VARIABLE BENDING STATION ~71:GLASSTECH, INC., 995 Fourth Street Ampoint Industrial Park, Perrysburg, Ohio, 43551, United States of America ~72: JR. JAMES P SCHNABEL~ 33:US ~31:16/361,361 ~32:22/03/2019

2021/08049 ~ Complete ~54:MICROWAVE AMPLIFICATION APPARATUS FOR AN ELECTROSURGICAL INSTRUMENT ~71:Creo Medical Limited, Creo House Unit 2, Beaufort Park, Beaufort Park Way, CHEPSTOW NP16 5UH, WALES, UNITED KINGDOM, United Kingdom ~72: HANCOCK, Christopher~ 33:GB ~31:1906010.2 ~32:30/04/2019

2021/08015 ~ Provisional ~54:DIFFERENTIAL CAPACITIVE SENSING BASED WEAR DETECTION ~71:AZOTEQ HOLDINGS LIMITED, c/o Spyrou Kyprianou Avenue 20, Chapo Central, Cyprus ~72: BRUWER, Frederick Johannes;RADEMEYER, Daniel Barend~

2021/08023 ~ Complete ~54:TIRE COMPRESSION RESISTANCE TESTING DEVICE ~71:Qingdao University of Science & Technology, 99 Songling Road, Laoshan District, Qingdao City, Shandong Province, People's Republic of China ~72: Liu Ximei;Wang Dong;Zhang Baolin;Zhang Dian~

2021/08038 ~ Complete ~54:ADAPTERS FOR ATTACHING A TIP TO A MACHINE IMPLEMENT AND GROUND ENGAGING TOOL ASSEMBLY ~71:CATERPILLAR INC., 100 NE Adams Street Peoria, United States of America ~72: BALAN, Mihai M.;MCCAFFREY, Brandon H.~ 33:US ~31:16/393,405 ~32:24/04/2019

2021/08050 ~ Complete ~54:USE OF CO-CRYSTALS OF TRAMADOL AND CELECOXIB FOR TREATING PAIN WHILE REDUCING THE ABUSE LIABILITY OF TRAMADOL ~71:Esteve Pharmaceuticals, S.A., Passeig de la Zona Franca, 109, 4a Planta, BARCELONA 08038, SPAIN, Spain ~72: ENCINA-GARCÍA, Gregorio-José;PLATA-SALAMÁN, Carlos-Ramón~ 33:EP ~31:19382377.0 ~32:14/05/2019

2021/08051 ~ Complete ~54:METHODS OF USING ANTIOXIDANTS IN FABRIC TREATMENT COMPOSITIONS FOR TREATING ELASTANE-CONTAINING FABRICS ~71:The Procter & Gamble Company, One Procter & Gamble Plaza, CINCINNATI 45202, OH, USA, United States of America ~72: DITULLIO Jr., Daniel Dale;MIRACLE, Gregory Scot;WANG, Yuexi~ 33:EP ~31:19172542.3 ~32:03/05/2019

2021/08037 ~ Complete ~54:LIFTING FRAME, AIR TRANSPORTATION VEHICLE, AND AIR RAIL CONTAINER TRANSPORTATION METHOD ~71:CRRC YANGTZE CO., LTD., Daqiao New Area, Jiangxia Economic Development Zone, People's Republic of China ~72: CHEN, Zhiguo;FENG, Ye;HOU, Jianyun;HUANG, Heng;KE, Xiaole;LIU, Aiwen;LIU, Wei;LUO, Hui;SONG, Shaobo;SU, Lijie;WANG, Quanhu;WANG, Zixun;YAO, Xiong~ 33:CN ~31:201911417527.3 ~32:31/12/2019

2021/08048 ~ Complete ~54:ANTI-CD19 THERAPY IN PATIENTS HAVING A LIMITED NUMBER OF NK CELLS ~71:MorphoSys AG, Semmelweisstrasse 7, MARTINSRIED/PLANEGL 82152, GERMANY, Germany ~72: ENDELL, Jan;FINGERLE - ROWSON, Günter;KUFFER, Christian;WINDERLICH, Mark~ 33:EP ~31:19172495.4 ~32:03/05/2019

2021/08017 ~ Provisional ~54:A CIRCUIT BREAKER WITH A REMOTE MONITORING UNIT ~71:CIRCUIT BREAKER INDUSTRIES (PTY) LTD, Tripswitch Drive, Elandsfontein, Johannesburg, Gauteng, South Africa ~72: RYNO JACOBUS STRAUSS;WYNAND VISSER~

2021/08027 ~ Complete ~54:PHARMACEUTICAL COMPOSITION FOR SUBCUTANEOUS INJECTION COMPRISING HUMAN HYALURONIDASE PH20 VARIANT AND DRUG ~71:ALTEOGEN INC., 62, YUSEONG-DAERO, 1628BEON-GIL, YUSEONG-GU, DAEJEON 34054, REP OF KOREA, Republic of Korea ~72: BYUN, Minsoo;CHUNG, Hye-Shin;KIM, Kyuwan;LEE, Seung Joo;NAM, Ki Seok;PARK, Soon Jae~ 33:KR ~31:10-2019-0033880 ~32:25/03/2019

2021/08032 ~ Complete ~54:NOVEL POTASSIUM CHANNEL INHIBITORS ~71:SANIONA A/S, SMEDELAND 26B, 2600 GLOSTRUP, DENMARK, Denmark ~72: BROWN, David, Tristram;CHRISTOPHERSEN, Palle;JACOBSEN, Thomas, Amos;LARSEN, Janus, S.;POULSEN, Pernille, Hartveit;STRØBÆK, Dorte~ 33:EP ~31:19164637.1 ~32:22/03/2019

2021/08046 ~ Complete ~54:ORAL CARE COMPOSITIONS AND METHODS OF USE ~71:Colgate-Palmolive Company, 300 Park Avenue, NEW YORK 10022, NY, USA, United States of America ~72: D'AMBROGIO, Robert;DOGU, Nihal;MAKWANA, Ekta;THOMSON, Paul~ 33:US ~31:62/868,604 ~32:28/06/2019

2021/08055 ~ Complete ~54:POSITIONING OF A SUBCUTATEOUS DEVICE AND METHOD ~71:KING ABDULLAH UNIVERSITY OF SCIENCE AND TECHNOLOGY, 4700 King Abdullah University of Science and Technology, Thuwal, 23955-6900, Saudi Arabia;STELLENBOSCH UNIVERSITY, R.W. Wilcocks Building 2037 Victoria Street, Stellenbosch, 7600, South Africa ~72: JÜRGEN KOSEL;LIAM SWANEPOEL;PIETER FOURIE~ 33:US ~31:62/827,588 ~32:01/04/2019;33:US ~31:62/904,753 ~32:24/09/2019

- APPLIED ON 2021/10/21 -

2021/08061 ~ Provisional ~54:TRASH TROLLEY ~71:Dewald Venter, 68 Hartshorne Street, South Africa;Wynand Venter, 61 Gerrit Maritz Street, South Africa ~72: Dewald Venter;Wynand Venter~

2021/08068 ~ Complete ~54:METHOD FOR PREPARING MICROWAVE DISCHARGE METAL CATALYST COATED WITH CHARACTERISTIC CARBON FILM AND APPLICATION THEREOF ~71:Shandong University of Science and Technology, 579 Qianwangang Road, Huangdao District, Qingdao, Shandong Province, 266590, People's Republic of China ~72: CAI, Dongqiang;LI, Longzhi;SUN, Jifu;ZHANG, Lianjie;ZHANG, Yue~

2021/08122 ~ Complete ~54:FLEXIBLE WELDING AND CUTTING ROBOT FOR SPECIAL-SHAPED CROSS-SECTION WORKPIECES ~71:Beijing Institute of Petrochemical Technology, No.19 Qingyuan North Road, Huangcun Town, Daxing District, People's Republic of China ~72: CAO Yingyu;HUANG Jiqiang;HUANG Junfen;LIANG Yajun;XUE Long;ZOU Yong~

2021/08065 ~ Complete ~54:POLYSACCHARIDE FROM THE FRUITING BODY OF PHLEBOPUS PORTENTOSUS AND ITS EXTRACTION, SEPARATION AND PURIFICATION METHOD ~71:Hainan Medical University, 3 Xueyuan Road, Longhua District, Haikou City, Hainan Province, People's Republic of China ~72: Han Yunxiao;Li Huanchang;Tian Run;Wang Yong;Xie Huijing;Xu Chang;Zeng Niankai;Zhang Xu;Zhang Yuzhuo~

2021/08063 ~ Complete ~54:ANTI-OUTFLOW MEMBRANE RUPTURE INSTRUMENT FOR CLINICAL OBSTETRICS ~71:The Second Affiliated Hospital of Shandong First Medical University, No.366 Taishan Street, Tai'an City, Shandong Province, 271000, People's Republic of China ~72: ZHANG, Yingzi~

2021/08073 ~ Complete ~54:INTELLIGENT BOX-TYPE ENERGY-SAVING AQUACULTURE DEVICE ~71:ShangHai Ocean University, No.999, Huchenghuan Road, Nanhui New City District, Shanghai City, People's Republic of China ~72: Cao Shouqi;Chen Yuanshuai;Liu Zhaohui;Zhang Zheng;Zhou Chun~

2021/08087 ~ Complete ~54:LIPID COMPOUND AND THE COMPOSITION THEREOF ~71:GUANGZHOU RIBOBIO CO., LTD, 7 Suida Street, Science Park, People's Republic of China ~72: WEN, Jian;ZHANG, Bill

Biliang;ZHAO, Haoting~ 33:CN ~31:202011355845.4 ~32:27/11/2020;33:WO ~31:PCT/IB2021/052705
~32:31/03/2021

2021/08093 ~ Complete ~54:DOCUMENT AUTHENTICATION BY DETERMINATION OF SURFACE
APPEARANCE USING CONTROLLED ILLUMINATION ~71:BIRD, Gemma, 10 York Road, United Kingdom;BUD,
Andrew, 10 York Road, United Kingdom;NEWELL, Andrew, 10 York Road, United Kingdom ~72: BIRD,
Gemma;BUD, Andrew;NEWELL, Andrew~ 33:US ~31:62/831,033 ~32:08/04/2019

2021/08096 ~ Complete ~54:GAS-FILLED MICROVESICLES ~71:Bracco Suisse SA, Via Ponteggia 23,
CADEMPINO 6814, SWITZERLAND, Switzerland ~72: ALLEMANN, Eric;BUSSAT, Philippe;CHERKAOUI,
Samir;GUILLOT, Christian;LAZARUS, David;SCHNEIDER, Michel~ 33:US ~31:16/413,526
~32:15/05/2019;33:US ~31:16/688,540 ~32:19/11/2019;33:US ~31:16/788,083 ~32:11/02/2020

2021/08104 ~ Complete ~54:PYRROLOTRIAZINE DERIVATIVES FOR TREATING KIT- AND PDGFRA-
MEDIATED DISEASES ~71:BLUEPRINT MEDICINES CORPORATION, 45 Sidney Street, Cambridge,
Massachusetts, 02139, United States of America ~72: JOSEPH L KIM;THOMAS A DINEEN;TIMOTHY GUZI~
33:US ~31:62/833,529 ~32:12/04/2019;33:US ~31:62/911,016 ~32:04/10/2019;33:US ~31:62/930,240
~32:04/11/2019

2021/08105 ~ Complete ~54:STATIC DRYER ~71:ATLAS COPCO AIRPOWER, NAAMLOZE VENNOOTSCHAP,
Boomsesteenweg 957, 2610 Wilrijk, Belgium ~72: FREDERIK VAN NEDERKASSEL;GEERT
HELLEMANS;THIBAUT CREPAIN~ 33:BE ~31:BE20195382 ~32:13/06/2019

2021/08110 ~ Provisional ~54:MATRIX RENEWABLE ENERGY SYSTEM ~71:KEABETSWE GIDEON
SEHLAKO, 311 BLOCK LL,, South Africa ~72: KEABETSWE GIDEON SEHLAKO~

2021/08113 ~ Provisional ~54:BULK BIN A-2 ~71:MARTHINUS JORDAAN NORTJÉ, 76 HAMILTON
ROAD, CLAREMONT,, South Africa ~72: MARTHINUS JORDAAN NORTJÉ~

2021/08059 ~ Provisional ~54:NUT PRE-SHELLER ~71:DUNSHEA, Christopher Laurence, Pine Valley Estate,
Farm Rietvallei 256 JT Portion 11, Schagen, South Africa ~72: BERLEIN, Alexander Christopher;BERLEIN,
Anthony Walter;BERLEIN, Catherine Mary;DUNSHEA, Christopher Laurence~

2021/08066 ~ Complete ~54:GLOMUS VERSIFORME, COMPOSITION FOR SALINE-ALKALI LAND
REMEDICATION AND METHOD FOR SALINE-ALKALI LAND REMEDIATION ~71:Research Institute of Forestry
Chinese Academy of Forestry, No.1 Dong Xiaofu, Xiangshan Road, Haidian District, Beijing, 100089, People's
Republic of China ~72: CHU, Jianmin;GUO, Jia;SUN, Qixiang;XING, Jincheng;YANG, Haishui;ZHANG,
Mingqian;ZHANG, Qian~ 33:CN ~31:202110659213.5 ~32:15/06/2021

2021/08069 ~ Complete ~54:METHOD FOR REDUCING METHANE EMISSIONS DURING COW DUNG
COMPOSTING ~71:Qinghai Normal University, No. 38, Wusi West Road, Chengxi District, Xining City, Qinghai
Province, 810008, People's Republic of China ~72: HU, Ying;JIA, Huiping;LEI, Meili;LIU, Nian;WANG,
Fachun;WANG, Huichun;WEI, Jingjing;XIE, Huichun;ZHANG, Haoran~ 33:CN ~31:202011604408.1
~32:30/12/2020

2021/08082 ~ Complete ~54:A FORK-CARRIER ~71:MANITOU ITALIA S.R.L., via Cristoforo Colombo, 2
Località Cavazzona, Castelfranco Emilia (Modena), 41013, Italy ~72: MARCO IOTTI~ 33:IT
~31:102020000025180 ~32:23/10/2020

2021/08084 ~ Complete ~54:NOVEL LIGAND ASSAYS ~71:INSITUGEN LIMITED, 87 St David Street, North Dunedin, New Zealand ~72: HEATHER, Alison Kay;SOWERBY, Stephen John~ 33:NZ ~31:753245 ~32:07/05/2019

2021/08091 ~ Complete ~54:CELLULOSE MATERIAL PLASTICIZATION AND VISCOSITY CONTROLLED CELLULOSIC MATERIAL ~71:UPM-KYMMENE CORPORATION, Alvar Aallon katu 1, Finland ~72: KOSONEN, Harri;MODIG, Sakari;POHJALAINEN, Teemu;RISTOLAINEN, Matti;SAPKOTA, Janak;VIRTANEN, Pasi~

2021/08100 ~ Complete ~54:COLD ROLLED AND COATED STEEL SHEET AND A METHOD OF MANUFACTURING THEREOF ~71:ARCELORMITTAL, 24-26, Boulevard d'Avranches, Luxembourg ~72: Pascal LORENZINI~ 33:IB ~31:PCT/IB2019/054576 ~32:03/06/2019

2021/08108 ~ Complete ~54:BICYCLIC COMPOUNDS ~71:VIVACE THERAPEUTICS, INC., 2929 Campus Drive, Suite 150, United States of America ~72: KONRAD, Andrei W.;LIN, Tracy Tzu-Ling Tang~ 33:US ~31:62/834,671 ~32:16/04/2019

2021/08088 ~ Complete ~54:COMPOUNDS AGAINST CANCER BEARING TYROSINE KINASE INHIBITOR RESISTANT EGFR MUTATIONS ~71:BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM, 210 West 7th Street, United States of America ~72: HEYMACH, John V.;NILSSON, Monique;ROBICHAUX, Jacquelyne~ 33:US ~31:62/835,343 ~32:17/04/2019

2021/08095 ~ Complete ~54:SUPERCAPACITOR ~71:Volta Pty Ltd, 57B Newborough Street, SCARBOROUGH 6019, WESTERN AUSTRALIA, AUSTRALIA, Australia ~72: ABDELSADIK, Mahmoud Moussa M.;DUBAL, Deepak;LOSIC, Dusan~ 33:AU ~31:2019901067 ~32:29/03/2019

2021/08062 ~ Complete ~54:INSERT ~71:VAN ZYL, Vincent Vernon, 4 Dead End Road, South Africa ~72: VAN ZYL, Vincent Vernon~ 33:ZA ~31:2020/06866 ~32:04/11/2020

2021/08070 ~ Complete ~54:MANIPULATOR FOR TRANSFERRING HEAT-TREATED WORKPIECES ~71:SD STEEL.RIZHAO CO.,LTD, No. 1, Lingang Road, Donggang District, Rizhao City, Shandong Province, People's Republic of China;ShanDong JiaoTong University, No. 5001 Haitang Road, Changqing University Science Park, Jinan City, Shandong Province, People's Republic of China ~72: Jing Yan;Liu Haiyan;Sun Yuejun;Wu Chengge;Yan Guanghua;Zhang Lei~

2021/08075 ~ Complete ~54:SEPARATION STRUCTURE OF OLFACTORY TEST DEVICE FOR TAXIS OF INSECTS ~71:Institute of Plant Protection, Henan Academy of Agricultural Sciences, 116 Huayuan Road, Zhengzhou, Henan, 450002, People's Republic of China ~72: DUAN, Yun;GONG, Zhongjun;JIANG, Yueli;LI, Tong;MIAO, Jin;WANG, Xueqin;WU, Yuqing~ 33:CN ~31:202121004959.4 ~32:10/05/2021

2021/08078 ~ Complete ~54:AN ONLINE MONITORING METHOD FOR VOLATILE ORGANIC COMPOUNDS IN THE ATMOSPHERE ~71:Heilongjiang Bayi Agricultural University, No.5 Xinfeng Road, High-tech Zone, Daqing City, Heilongjiang, People's Republic of China ~72: BI, Hongmei;CHEN, Juan;GAO, Shan;JIAO, Yue;SUN, Quan;ZHANG, Jinyan~

2021/08089 ~ Complete ~54:INTELLIGENT LIFESAVER WITH SPEECH RECOGNITION POSITIONING FUNCTION ~71:Jiangsu Maritime Institute, 309 Gezhi Road, Jiangning District, Nanjing City, Jiangsu Province, 211170, People's Republic of China ~72: YUAN, Junfu;ZHAO, Chunsheng~ 33:CN ~31:201920352593.6 ~32:20/03/2019

2021/08097 ~ Complete ~54:PRMT5 INHIBITORS AND USES THEREOF ~71:1200 Pharma LLC, 844 East Green Street, Suite 204, PASADENA 91101 , CA, USA, United States of America;California Institute of

Technology, 1200 E. California Boulevard, Mail Code 210-85, PASADENA 91125, CA, USA, United States of America;The Regents of the University of California, 1111 Franklin Street, Twelfth Floor, OAKLAND 94607-5200 , CA, USA, United States of America ~72: BARTBERGER, Michael D.;HILF, Justin A.;LOSON, Oliver C.;MCDERMOTT, Martina S.;O'BOYLE, Brendan M.;O'BRIEN, Neil A.;REEVES, Corey M.;SLAMON, Dennis;STOLTZ, Brian M.;WITTENBERGER, Steven J.~ 33:US ~31:62/823,374 ~32:25/03/2019;33:US ~31:62/874,773 ~32:16/07/2019

2021/08103 ~ Complete ~54:PERSONAL CLEANSING COMPOSITIONS ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: ARASH MOHAJER MOGHADAM;JOSEPH MUSCAT;PIERRE STARCK;ROBERT GEORGE RILEY~ 33:EP ~31:19181752.7 ~32:21/06/2019

2021/08067 ~ Complete ~54:NOVEL NASAL IRRIGATION SYSTEM ~71:He Xia, Jiangsu Cancer Hospital,42 Bai Ziting Road, Xuanwu District, Nanjing City, Jiangsu Province, People's Republic of China ~72: He Xia~

2021/08071 ~ Complete ~54:COLD-HEAT INTEGRATED HEAT TREATMENT EQUIPMENT BOX ~71:SD STEEL.RIZHAO CO.,LTD, No. 1, Lingang Road, Donggang District, Rizhao City, Shandong Province, People's Republic of China;ShanDong JiaoTong University, No. 5001 Haitang Road, Changqing University Science Park, Jinan City, Shandong Province, People's Republic of China ~72: Jing Yan;Liu Haiyan;Sun Yuejun;Wu Chengge;Yan Guanghua;Zhang Lei~

2021/08076 ~ Complete ~54:AN IMPROVED PEDESTRIAN ATTRIBUTE MONITORING AND RECOGNITION METHOD ~71:Jinan Jovision Technology Co., Ltd., Floor 12, No.3 Aosheng Building, No.1166 Xinluo Street, High-tech District, Jinan City, Shandong Province, 250101, People's Republic of China ~72: Haifeng Wang;Renquan Wang;Zhengbing Wang~ 33:CN ~31:202111012377.5 ~32:31/08/2021

2021/08079 ~ Complete ~54:A GRAIN INFORMATION PROCESSING METHOD AND MANAGEMENT SYSTEM COMBINED WITH ELECTRONIC MAP ~71:Heilongjiang Bayi Agricultural University, No.5 Xinfeng Road, High-tech Zone, Daqing City, Heilongjiang, People's Republic of China ~72: GAO, Jun;HAN, Wenge;TIAN, Hong;WANG, Yuqian;YU, Xiaoqiu~

2021/08092 ~ Complete ~54:PREPARATION OF ZINC ZOLEDRONATE MICRO-NANOPARTICLE ADJUVANT AND USE THEREOF AS VACCINE ADJUVANT ~71:XIAMEN INNOVAX BIOTECH CO., LTD., 1ST FLOOR, 50 SHAN BIAN HONG EAST ROAD, HAICANG DISTRICT XIAMEN, People's Republic of China;XIAMEN UNIVERSITY, NO.422 SI MING NAN ROAD, SIMING DISTRICT XIAMEN, People's Republic of China ~72: CHEN, Siyi;HUANG, Xiaofen;LI, Yike;XIA, Ningshao;ZHANG, Cai;ZHAO, Qinjian~ 33:CN ~31:201910287805.1 ~32:11/04/2019

2021/08094 ~ Complete ~54:MIRIKIZUMAB FOR USE IN A METHOD OF TREATING CROHN'S DISEASE ~71:Eli Lilly and Company, Lilly Corporate Center, INDIANAPOLIS 46285, IN, USA, United States of America ~72: FRIEDRICH, Stuart William;POLLACK, Paul Frederick;TUTTLE, Jay Lawrence~ 33:US ~31:62/836,910 ~32:22/04/2019

2021/08102 ~ Complete ~54:SYSTEMIC ISOXAZOLINE PARASITICIDES FOR VECTOR-BORNE AND VIRAL DISEASE TREATMENT OR PROPHYLAXIS ~71:TARSUS PHARMACEUTICALS, INC., 15440 Laguna Canyon Road, Suite 160, Irvine, California, 92618, United States of America ~72: BOBAK ROBERT AZAMIAN;CHRISTOPHER STIVERS;DOUGLAS MICHAEL ACKERMANN;SHAWN D HICKOK~ 33:US ~31:62/829,573 ~32:04/04/2019

2021/08106 ~ Complete ~54:GENE TARGETS FOR NITROGEN FIXATION TARGETING FOR IMPROVING PLANT TRAITS ~71:PIVOT BIO, INC., 2910 Seventh Street, Berkeley, California, 94710, United States of

America ~72: ALVIN TAMSIR;BILGE OZAYDIN ESKIYENENTURK;JENNY JOHNSON;KARSTEN TEMME;NEAL SHAH;SARAH BLOCH~ 33:US ~31:62/838,158 ~32:24/04/2019

2021/08112 ~ Provisional ~54:IMPLoding (2) STRETCHER CASKET ~71:MARTHINUS JORDAAN NORTJÉ, 76 HAMILTON ROAD, CLAREMONT,, South Africa ~72: MARTHINUS JORDAAN NORTJÉ~

2021/08120 ~ Complete ~54:PREPARATION METHOD OF COMPOUND BACTERIA FERMENTED PRODUCT FOR CONTROLLING PLANT PHYTOPHTHORA DISEASES, COMPOUND BACTERIA FERMENTED PRODUCT AND APPLICATION THEREOF ~71:INSTITUTE OF TOBACCO RESEARCH , CHINESE ACADEMY OF AGRICULTURAL SCIENCES, NO. 11, JINGSI ROAD, KEYUAN DISTRICT, LAOSHAN DISTRICT, People's Republic of China ~72: CHENGSHENG ZHANG;DONGLIN ZHAO;KUO XU;PENG ZHANG;PING ZOU;XIAOQIANG WANG;YIQIANG LI;YUAN YUAN~

2021/08121 ~ Complete ~54:GUIDE RAIL-FREE AUTOMATIC TRACKING FLEXIBLE CRAWLING ROBOT ~71:Beijing Institute of Petrochemical Technology, No.19 Qingyuan North Road, Huangcun Town, Daxing District, People's Republic of China ~72: CAO Yingyu;HUANG Jiqiang;HUANG Junfen;LIANG Yajun;XUE Long;ZOU Yong~

2021/08117 ~ Complete ~54:SURFACING ROBOT AND RING-SHAPED DIAPHRAGM SURFACING SYSTEM ~71:Beijing Institute of Petrochemical Technology, No.19 Qingyuan North Road, Huangcun Town, Daxing District, People's Republic of China;Beijing ShengLong BoRui Science and Technology Co., Ltd, Room B304, Floor 3, Building 1, Yard 19 Qingyuan North Road, Daxing District,, People's Republic of China ~72: CAO Yingyu;HUANG Jiqiang;HUANG Junfen;LIANG Yajun;XUE Long;ZOU Yong~

2021/08060 ~ Provisional ~54:MAGNETITE MATERIAL FOR HEAT TRANSFER APPLICATIONS ~71:The Trustees for the time being of the KMN FULFILMENT TRUST, 8 Kestrel Street, Ebotse Golf Estate, Rynfield, BENONI 1504, SOUTH AFRICA, South Africa ~72: MAKGERU, Kabu Walter~

2021/08111 ~ Provisional ~54:PRESTIGE COFFIN FAREWELL ~71:MARTHINUS JORDAAN NORTJÉ, 76 HAMILTON ROAD, CLAREMONT,, South Africa ~72: MARTHINUS JORDAAN NORTJÉ~

2021/08116 ~ Complete ~54:MAGNESIUM OXIDE-FILLED MINERAL INSULATED CABLE AND PREPARATION METHOD THEREOF ~71:Chongqing Kebao Cable Co., Ltd., No.1 Hefeng Road, Fuling District, People's Republic of China;Chongqing University, No. 174 Zhengjie, Shapingba District,, People's Republic of China ~72: CHEN, Xianhua;FU, Jing;HUANG, Meihua;LI, Jianbo;XIA, Shiquan;XIE, Hualin~

2021/08109 ~ Provisional ~54:DOPPLER ~71:RODRIGUES: JORGE OMAR, 11 SUNRISE AVENUE, MAROELANA, South Africa;SMIT: HENDRIK VAN ZYL, 98 SELROSE PARK, PRIVATE BAG X16, LYNNWOOD RIDGE, South Africa ~72: RODRIGUES: JORGE OMAR;SMIT: HENDRIK VAN ZYL~

2021/08064 ~ Complete ~54:METHOD FOR CONSTRUCTING FIGURE PORTRAITS BASED ON CONTRASTIVE LEARNING ~71:Guangdong Polytechnic Normal University, No.293, West of Zhongshan Avenue, Tianhe District, Guangzhou City, Guangdong Province, People's Republic of China ~72: He Kangjian;Huang Zhihao;Liu Lan;Wu Yafeng;Yu Yongjie;Zhang Baoying~

2021/08074 ~ Complete ~54:TOBACCO STEM INFUSION DEVICE FOR BOTH FERTILIZER AND PESTICIDE ~71:Bijie Branch of Guizhou Tobacco Company, No. 519 Guibi Road, Qixingguan District, Bijie City, Guizhou Province, People's Republic of China;Nanping Branch of Fujian Tobacco Company, No. 389, Binjiang Middle Road, Yanping District, Nanping City, Fujian Province, People's Republic of China;Tobacco Research Institute of Chinese Academy of Agricultural Sciences, No.11 Keyuan Jingsi Road, Laoshan District, Qingdao City, Shandong

Province, People's Republic of China ~72: Hu Ben;Li Caibin;Lin Wei;Liu Jianyang;Ning Yang;Shen Minchong;Wang Dabin;Xu Chensheng;Zhang Jiguang;Zhang Jixu;Zhang Long;Zheng Jiayu~

2021/08080 ~ Complete ~54:SYSTEM AND METHOD FOR ISSUING A LOTTERY TICKET ~71:NTLOANA, Marumo, 1730 Phelindaba Sec, Mmamethake, South Africa ~72: NTLOANA, Marumo~ 33:ZA ~31:2020/03652 ~32:21/07/2020

2021/08085 ~ Complete ~54:NOVEL LIGAND ASSAYS ~71:INSITUGEN LIMITED, 87 St David Street, North Dunedin, New Zealand ~72: HEATHER, Alison Kay;SOWERBY, Stephen John~ 33:NZ ~31:753245 ~32:07/05/2019

2021/08099 ~ Complete ~54:SPLIT HANDLE, NARROW ROLLING BAG ~71:SHALGI, Netta Dor, Apartment 204, 1430 North Harper Avenue, WEST HOLLYWOOD 90046-8418, CA, USA, United States of America ~72: SHALGI, Netta Dor~ 33:US ~31:62/822,642 ~32:22/03/2019

2021/08072 ~ Complete ~54:BREEDING METHOD OF BAMBOOS ~71:International Center for Bamboo and Rattan, No.8, Futong East Street, Wangjing, Chaoyang District, Beijing, 100102, People's Republic of China ~72: CHEN, Ruiguo;FENG, Yun;FU, Meimei;HUO, Changqing;LI, Deyue;WANG, Yi~

2021/08077 ~ Complete ~54:A SCREENING METHOD OF WATER-SOLUBLE COMPOUND VACCINE ADJUVANT ~71:Qingdao Agricultural University, No.700 Changcheng Road, Chengyang District, Qingdao, Shandong, 266109, People's Republic of China ~72: HUANG, Juan;SHAN, Hu~ 33:CN ~31:202111094400.X ~32:17/09/2021

2021/08081 ~ Complete ~54:CHEMICAL BASED SELF-CONTAINED SELF-RESCUER ~71:CSIR, Scientia, Meiring Naud~233; Road, Brummeria, Pretoria, South Africa ~72: ADRIAAN VINTCENT BERGH;MATOME MICHAEL SEHLABANA;WILFRIED LOTHAR SCHREIBER~ 33:ZA ~31:2020/06525 ~32:21/10/2020

2021/08083 ~ Complete ~54:COMPOUNDS FOR THE TREATMENT OF NEUROMUSCULAR DISORDERS ~71:NMD PHARMA A/S, Palle Juul-Jensens Boulevard 82, Denmark ~72: KELLY, Nicholas;KNUTSEN, Lars J.S.;RIISAGER, Anders;SARASWAT, Neerja;SKOV, Martin Brandh~248;j~ 33:EP ~31:19181270.0 ~32:19/06/2019

2021/08086 ~ Complete ~54:GAS INJECTION SYSTEMS FOR OPTIMIZING NANOBUBBLE FORMATION IN A DISINFECTING SOLUTION ~71:NBOT SYSTEMS, LLC, 260 WEST COLEMAN BOULEVARD, SUITE B 3666, MOUNT PLEASANT, SOUTH CAROLINA 29464, USA, United States of America ~72: DOMRESE, Brian C.;GARELECK, Steve~ 33:US ~31:62/825,491 ~32:28/03/2019;33:US ~31:62/969,729 ~32:04/02/2020

2021/08090 ~ Complete ~54:ATTITUDE SURVEY INSTRUMENT WITH ROTATING SENSOR GIMBAL FOR BIAS ELIMINATION ~71:REFLEX INSTRUMENTS ASIA PACIFIC PTY LTD, 216 Balcatta Road, Australia ~72: BUCKLEY, Dennis;GUTTERUD, Erik;HOLLISTER, Gregory W.;KOPLAN, Christopher Thomas;PELL, Christopher;PRICE, Timothy;WILSON, Cory~ 33:US ~31:62/841,214 ~32:30/04/2019

2021/08098 ~ Complete ~54:METHOD OF TREATING A CHILD WITH CENTRAL PRECOCIOUS PUBERTY USING AN EXTENDED RELEASE COMPOSITION ~71:Tolmar International, Ltd., 10 Earlsfort Terrace, DUBLIN 2, D02 T380, IRELAND, Ireland ~72: MCLANE, John Arthur;NANGIA, Avinash~ 33:US ~31:62/837,094 ~32:22/04/2019;33:US ~31:16/451,625 ~32:25/06/2019

2021/08101 ~ Complete ~54:HIGH SPEED LABELER FOR LARGE PRODUCE ITEMS ~71:SINCLAIR SYSTEMS INTERNATIONAL, LLC., 3115 South Willow Avenue, Fresno, California, 93725, United States of

America ~72: JEREMY BENJAMIN ISCH;JUSTIN GRAHAM;KEVIN GUADAGNINI;RUSSELL ALAN JENSEN;SAMUEL AARON GREER~ 33:US ~31:62/919,671 ~32:22/03/2019

2021/08107 ~ Complete ~54: COSMETIC COMPOSITIONS FOR SOFT-FOCUS ~71: UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: LIN WANG;XIUJUAN CAO~ 33:CN ~31:PCT/CN2019/087738 ~32:21/05/2019;33:EP ~31:19183831.7 ~32:02/07/2019

2021/08118 ~ Complete ~54: GUIDE RAIL-FREE AUTOMATIC TRACKING FLEXIBLE CRAWLING ROBOT APPLIED TO UNDERWATER LOCAL DRY WELDING ~71: Beijing Institute of Petrochemical Technology, No.19 Qingyuan North Road, Huangcun Town, Daxing District, People's Republic of China;Beijing ShengLong BoRui Science and Technology Co., Ltd, Room B304, Floor 3, Building 1, Yard 19 Qingyuan North Road, Daxing District, People's Republic of China ~72: CAO Yingyu;HUANG Jiqiang;HUANG Junfen;LIANG Yajun;XUE Long;ZOU Yong~

2021/08119 ~ Complete ~54: FRICTION TRANSMISSION-TYPE WALKING DEVICE OF WELDING ROBOT ~71: BEIJING INSTITUTE OF PETROCHEMICAL TECHNOLOGYTAIZHOU, No.19 Qingyuan North Road, Huangcun Town, Daxing District, People's Republic of China ~72: CAO Yingyu;HUANG Jiqiang;HUANG Junfen;LIANG Yajun;XUE Long;ZOU Yong~

- APPLIED ON 2021/10/22 -

2021/08166 ~ Complete ~54: BLOCK-BASED QUANTIZED RESIDUAL DOMAIN PULSE CODE MODULATION ASSIGNMENT FOR INTRA PREDICTION MODE DERIVATION ~71: QUALCOMM Incorporated, ATTN: International IP Administration, 5775 Morehouse Drive, SAN DIEGO 92121-1714, CA, USA, United States of America ~72: COBAN, Muhammed Zeyd;KARCZEWICZ, Marta;VAN DER AUWERA, Geert~ 33:US ~31:62/838,928 ~32:25/04/2019;33:US ~31:16/854,720 ~32:21/04/2020

2021/08132 ~ Complete ~54: SLUDGE PIPELINE CONVEYING DEVICE FOR SEWAGE PLANT AND THE OPERATION METHOD ~71: Jilin Jianzhu University, No. 5088 Xincheng Street, Jingyue Zone, Changchun City, Jilin Province, People's Republic of China ~72: Chen Wenluo;Li Qingpo;Lu Hai;Wang Jianhui;Wang Jing;Wang Xiaoyan~

2021/08133 ~ Complete ~54: ABELMOSCHUS MANIHOT COMPOUND HEALTH DRINK AND PREPARATION METHOD THEREOF ~71: Institute of Coastal Agriculture, Hebei Academy of Agriculture and Forestry Sciences, 63 Binhai Street, Caofeidian District, Tangshan City, Hebei Province, 063299, People's Republic of China;Tangshan Fengnan Jinyu Agricultural Technology Development Co., Ltd., Room 464, Jialan Incubator, No. 53, Tangxu Road, Fengnan Town, Fengnan District, Tangshan City, Hebei Province, 063399, People's Republic of China ~72: CHEN, Qingguo;FENG, Wei;JIN, Mengke;LI, Zhaojia;LU, Xuelin;MENG, Ran;WANG, Xiuping;WU, Zhe;XUE, Zhizhong;YANG, Yahua~

2021/08139 ~ Complete ~54: HINGE STRUCTURE AND ELECTRONIC DEVICE INCLUDING THE SAME ~71: SAMSUNG ELECTRONICS CO., LTD., 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea ~72: CHUNGKEUN YOO;JAEHO KANG;JONGYOON KIM;JUNGJIN KIM;MINSUNG LEE;SEUNGHYUN HWANG~ 33:KR ~31:10-2019-0050282 ~32:30/04/2019

2021/08141 ~ Complete ~54: THIAZOLECARBOXAMIDES AND PYRIDINECARBOXAMIDE COMPOUNDS USEFUL AS PIM KINASE INHIBITORS ~71: Incyte Holdings Corporation, 1801 Augustine Cut-Off, WILMINGTON 19803, DE, USA, United States of America ~72: FENG, Hao;LI, Yun-Long;PAN, Jun;WANG, Anlai;XUE, Chu-Biao;YAO, Wenqing;ZHANG, Fenglei;ZHANG, Ke;ZHUO, Jincong~ 33:US ~31:61/752,897 ~32:15/01/2013;33:US ~31:61/790,952 ~32:15/03/2013;33:US ~31:61/859,118 ~32:26/07/2013

2021/08127 ~ Complete ~54:METHOD FOR CONSTRUCTING TOBACCO CORE COLLECTION BASED ON GENOMICS AND APPLICATION OF THE METHOD ~71:China Tobacco Central South Agricultural Experimental Station, Research Center of Hunan Tobacco Monopoly Bureau, No. 628, Section 1, Furong South Road, Changsha, Hunan, 410004, People's Republic of China;TOBACCO RESEARCH INSTITUTE OF CHINESE ACADEMY OF AGRICULTURAL SCIENCES, 11 Keyuanjing 4th Road, Laoshan District, Qingdao, Shandong, 266101, People's Republic of China ~72: DAI, Peigang;FENG, Quanfu;HU, Risheng;LI, Yangyang;LI, Yuan;LI, Zunqiang;LIU, Guoxiang;TONG, Ying;XIANG, Shipeng;YANG, Aiguo;YANG, Jiashuo;ZHANG, Xingwei;ZHOU, Zhicheng~ 33:CN ~31:202011283769.0 ~32:17/11/2020

2021/08161 ~ Complete ~54:THERAPEUTIC RNA FOR OVARIAN CANCER ~71:BIONTECH SE, An der Goldgrube 12, 55131, Mainz, Germany;TRON - TRANSLATIONALE ONKOLOGIE AN DER UNIVERSITÄT;TSMEDIZIN DER JOHANNES GUTENBERG-UNIVERSITÄT MAINZ GEMEINNÜTZIGE GMBH, Freiligrathstrasse 12, 55131, Mainz, Germany ~72: CARINA WALTER;DAVID WEBER;DIANA BAREA ROLDAN;MARTIN SUCHAN;MEIKE WAGNER;RENKE, BECKER;RUPRECHT KUNER;STEFANIA GANGI MAURICI;STEFANIE HUBICH-RAU;UGUR SAHIN~ 33:EP ~31:PCT/EP2019/062967 ~32:20/05/2019

2021/08153 ~ Complete ~54:THRESHOLD SIGNATURE BASED MEDICAL DEVICE MANAGEMENT ~71:ICU MEDICAL, INC., 951 Calle Amanecer, San Clemente, United States of America ~72: DANDEKAR, Hrishikesh Anil;SRINIVASAMURTHY, Chaitanya Mattur;VIVEK, S. Sree~ 33:US ~31:62/845,115 ~32:08/05/2019

2021/08164 ~ Complete ~54:A PROCESS FOR THE MANUFACTURE OF (2S,3S,4S,5R,6S)-3,4,5-TRIHYDROXY-6-(((4AR,10AR)-7-HYDROXY-1-PROPYL-1,2,3,4,4A,5,10,10A-OCTAHYDROBENZO[G]QUINOLIN-6-YL)OXY)TETRAHYDRO-2H-PYRAN-2-CARBOXYLIC ACID ~71:H. LUNDBECK A/S, Ottilavej 9, 2500, Valby, Denmark ~72: FRANS DENNIS THERKELSEN;MARTIN JUHL;TOBIAS GYLLING FRIHED~ 33:DK ~31:PA201900599 ~32:20/05/2019;33:DK ~31:PA201900636 ~32:24/05/2019

2021/08158 ~ Complete ~54:RADIATION-RESISTANT INORGANIC MATERIAL AND FIBER THEREOF ~71:NIPPON FIBER CORPORATION, 2373-2, Fuse, Abiko-City, Chiba 2701162, Japan ~72: HIROSHI FUKAZAWA~ 33:JP ~31:2019-083950 ~32:25/04/2019;33:JP ~31:PCT/JP2019/039911 ~32:09/10/2019

2021/08130 ~ Complete ~54:INTELLIGENT ENERGY-SAVING AIR-HYDRAULIC CYLINDER AND INTELLIGENT ENERGY-SAVING AIR-HYDRAULIC CYLINDER POWER SYSTEM ~71:HUNAN SKYROADN INTELLIGENT TECHNOLOGY CO., LTD, North Building, 1st Floor, Standardized Factory Building, Industrial Park, Huaihua City, Hunan Province, 418000, People's Republic of China ~72: LIU, Tao~ 33:CN ~31:202011328249.7 ~32:24/11/2020

2021/08151 ~ Complete ~54:MODULATORS OF THE INTEGRATED STRESS RESPONSE PATHWAY ~71:EVOTEC INTERNATIONAL GMBH, ESSENER BOGEN 7, 22419 HAMBURG, GERMANY, Germany ~72: ATTON, Holly;BROWN, Christopher, John;CARR, James, Lindsay;CONVERS-REIGNIER, Serge;CORR, Michael;FLOWER, Marissa;PALMER, Christopher, Francis;REBOULE, Irena, Doly;SABBAH, Mohamad;SADLER, Scott;SHINE, Jonathan;WALTER, Daryl, Simon~ 33:EP ~31:19170504.5 ~32:23/04/2019;33:EP ~31:19216875.5 ~32:17/12/2019

2021/08129 ~ Complete ~54:AN ULTRA LOW-COST SYSTEM FOR INSPECTING THE INTEGRITY OF A WHEEL RIM ~71:ECLECTIC SERVICES COMPANY (PTY) LTD, 10 Sally Close, South Africa ~72: BOTHA, ALEX JOHAN~

2021/08149 ~ Complete ~54:PLANTER ADAPTATION FOR NARROW WIDTH TRANSPORT AND ACCESSIBILITY ~71:CROP CENTER 360 (PTY) LTD, 3 Trees Farm, South Africa ~72: PUTZ, Jürgen~ 33:ZA ~31:2020/06564 ~32:22/10/2020

2021/08152 ~ Complete ~54:MODULATORS OF THE INTEGRATED STRESS RESPONSE PATHWAY ~71:EVOTEC INTERNATIONAL GMBH, ESSENER BOGEN 7, 22419 HAMBURG, GERMANY, Germany ~72: BROWN, Christopher, John;REBOULE, Irena, Doly;RUDHARD, York;SABBAH, Mohamad;WALTER, Daryl, Simon~ 33:EP ~31:19170502.9 ~32:23/04/2019

2021/08167 ~ Complete ~54:METHOD AND DEVICE FOR DETERMINING THE MATERIAL MOISTURE OF A MATERIAL ~71:Rheinmetall Waffe Munition GmbH, Heinrich-Ehrhardt-Str. 2, UNTERLÜß 29345, GERMANY, Germany ~72: CAMP, Michael;JUNG, Markus;LINKE, Katrin;SCHMITZ, Jürgen~ 33:DE ~31:10 2019 110 537.4 ~32:24/04/2019

2021/08124 ~ Complete ~54:DETECTION METHOD OF TUMOR CELL MARKER MIRNA-21 AND TUMOR CELL ~71:Qingdao University of Science and Technology, No. 99, Songling Road, Laoshan District, Qingdao City, Shandong Province, 266061, People's Republic of China ~72: BI, Cheng;DING, Kexin;HE, Peng;LI, Dongxiang;LI, Tiantian;ZHOU, Hong~

2021/08169 ~ Complete ~54:POLYMER-LIPID NANOCOMPLEX FOR ENHANCED AQUEOUS SOLUBILISATION AND ABSORPTION OF HYDROPHOBIC ACTIVE COMPOUNDS ~71:COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH, Meiring Naude Road, South Africa ~72: KALOMBO, Michel Lonji;NKUNA, Tshepo Patric~ 33:ZA ~31:2019/02992 ~32:14/05/2019

2021/08115 ~ Provisional ~54:GEOCELL-LINED FLUID FEED PIPE ~71:MAREDI WILSON MPHAHLELE, 7 Firelilly Crescent, Countryview Ext 1, South Africa ~72: MAREDI WILSON MPHAHLELE~

2021/08131 ~ Complete ~54:PLANTING METHOD FOR CHINESE RASPBERRY FOR LANDSCAPING ~71:ZHEJIANG ACADEMY OF AGRICULTURAL SCIENCES, 198 Shiqiao Road, Hangzhou City, Zhejiang Province, 310021, People's Republic of China;ZHEJIANG SCI-TECH UNIVERSITY, 928 Second Avenue, Xiasha Higher Education Park, Hangzhou, Zhejiang, 310018, People's Republic of China ~72: HONG, Yan;JIN, Liang;LI, Xiaobai~ 33:CN ~31:202110197569.1 ~32:22/02/2021

2021/08135 ~ Complete ~54:DEVICE AND METHOD FOR MEASURING LIFE PARAMETERS OF BACTROCERA DORSALIS HENDEL ~71:Qingdao Agricultural University, No. 700 Changcheng Road, Chengyang District, Qingdao City, Shandong Province, People's Republic of China ~72: Fan Yinjun;Qi Fangjian;Tan Xiumei;Teng Ziwen;Zhang Tong;Zhou Hongxu;Zhou Yuqi;Zhu Yanfei~

2021/08138 ~ Complete ~54:MULTI-FACTOR AUTHENTICATION ~71:ENTERSEKT INTERNATIONAL LIMITED, Level 3, Alexander House, 35 Cybercity, Mauritius ~72: NOLTE, Dewald de Ridder;OOSTHUIZEN, Gerhard Gysbert~ 33:ZA ~31:2020/06631 ~32:26/10/2020

2021/08145 ~ Complete ~54:TERAHERTZ ELECTROMAGNETICALLY INDUCED TRANSPARENT META-MATERIAL AND PREPARATION METHOD AND APPLICATION ~71:SHANDONG UNIVERSITY, No. 1500, Shunhua Road, High-tech Zone, Jinan, People's Republic of China ~72: HUA, Ming;LI, Meiping;LIU, Xiaoyu;SHI, Yanpeng;SONG, Jinmei~ 33:CN ~31:202110400475.X ~32:14/04/2021

2021/08147 ~ Complete ~54:VISUAL CORRIDOR PLANNING AND DESIGN METHOD AND SYSTEM FOR URBAN MOTORIZED TRANSPORTATION ENVIRONMENT ~71:QINGDAO UNIVERSITY OF TECHNOLOGY, No. 777, Jialingjiang Road, Economic and Technological Development Zone, Qingdao, People's Republic of

China ~72: DONG, Haitao;LI, Xin;LIU, Shan;PANG, Feng;WANG, Li;WANG, Lisha;WANG, Zongpeng~ 33:CN ~31:202110938472.1 ~32:16/08/2021

2021/08150 ~ Complete ~54:AN INHALABLE FIXED DOSE POWDER COMPOSITION COMPRISING GLYCOPYRRONIUM, FORMOTEROL AND FLUTICASONE PROPIONATE ~71:GLENMARK PHARMACEUTICAL LIMITED, Glenmark House, HDO - Corporate Bldg, India ~72: CHAUDHARI, Sunil;JADHAV, Ganesh;KODGULE, Rahul;KULKARNI, Sushrut;TANDON, Monika;TRIVEDI, Girish~ 33:IN ~31:201921020572 ~32:24/05/2019;33:IN ~31:201921023615 ~32:14/06/2019;33:IN ~31:201921029676 ~32:23/07/2019

2021/08136 ~ Complete ~54:METHOD FOR SIMULATING THE BLOCKAGE MECHANISM OF GEOTHERMAL WATER REINJECTION ~71:801 Institute of Hydrogeology and Engineering Geology, SPBGM, Jinan, 250014, P.R. China, No.13632 Jingshi Road, Lixia District, Jinan City, Shandong Province, People's Republic of China;Second Institute of Hydrogeology and Engineering Geology, SPBGM, Dezhou, 253015, P.R. China, No.1499 Daxuedong Road, Decheng District, Dezhou City, Shandong Province, People's Republic of China;Shandong Lunan Geological Engineering Survey Institute, Jining, 272100, PR China, No.272 Jianshe East Road, Yanzhou District, Jining City, Shandong Province, People's Republic of China;Shandong No.3 Exploration Institute of Geology and Mineral Resources, Yantai, 264000, P.R. China, No.271 Jichang Road, Zhifu District, Yantai City, Shandong Province, People's Republic of China;Shandong Provincial Bureau of Geology and Mineral Resources (SPBGM), Jinan, 250013, PR China, No.74 Lishan Road, Lixia District, Jinan City, Shandong Province, People's Republic of China ~72: Bai Tong;Kang Fengxin;Liu Zhitao;Ma Zhemin;Shi Meng;Shi Qipeng;Sui Haibo;Wei Shanming;Zhang Pingping;Zhao Jichu;Zheng Tingting~

2021/08144 ~ Complete ~54:TERAHERTZ DEVICE BASED ON ENHANCED EXTRAORDINARY OPTICAL TRANSMISSION AND PREPARATION METHOD ~71:SHANDONG UNIVERSITY, No. 1500, Shunhua Road, High-tech Zone, Jinan, People's Republic of China ~72: LI, Meiping;LIU, Xiaoyu;SHI, Yanpeng;SONG, Jinmei~ 33:CN ~31:202110281353.3 ~32:16/03/2021

2021/08125 ~ Complete ~54:SPRAYING DEVICE FOR TOBACCO PLANTING ~71:Institute of Agricultural Resources and Environment, SAAS, Block 2, Shizishan Road, Waidong, Chengdu City, Sichuan Province, 610066, People's Republic of China;Sichuan Tobacco Company Guangyuan Company, Block 2, Shizishan Road, Waidong, Chengdu City, Sichuan Province, 610066, People's Republic of China ~72: CHEN, Qingrui;FAN, Hongzhu;GU, Huizhan;HE, Jixian;HU, Yue;LI, Changke;MU, Mingxin;SHI, Ji~39;an;SUN, Zhipu;WANG, Dong;YU, Shikang;YUAN, Xinyu;ZHANG, Qili;ZHANG, Xiao;ZHAO, Hu~

2021/08134 ~ Complete ~54:METHOD FOR DETECTING DRIVING STATE OF MOTOR TRAIN DRIVERS BASED ON VIDEO ANALYSIS ~71:Zhengzhou Railway Vocational And Technical College, No.56 of Pengcheng Avenue, Zhengdong New District, Zhengzhou, Henan, People's Republic of China ~72: Anashkina Natalia;Cong Qiao;Dedyayev Stanislav;Galuk Alyona;Gnativ Marina;Ke Niu;Lingjie Meng;Shestopalova Olga;Yuanyuan Hou;Zehao Ni~

2021/08137 ~ Complete ~54:METHOD OF PREDICTING PUBLIC SENTIMENT ON MICROBLOG TOPICS BASED ON SENTIMENT ANALYSIS ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, No. 168, Taifeng Road, Huainan City, Anhui Province, 232001, People's Republic of China ~72: HU, Zhaoya;WEI, Zhongliang;ZHANG, Shunxiang;ZHU, Guangli~

2021/08140 ~ Complete ~54:ADDITION OF TRANSITION METAL TO WINES AND WINE TYPE BEVERAGES IN METALLIC BEVERAGE CONTAINERS TO PREVENT UNWANTED AROMAS ~71:Ball Corporation, 10 Longs Peak Drive, BROOMFIELD CO 80021-2510, USA, United States of America ~72: BRENDHECKE, Scott~ 33:US ~31:61/553,732 ~32:31/10/2011

2021/08146 ~ Complete ~54:TERAHERTZ ELECTROMAGNETICALLY INDUCED TRANSPARENT META-MATERIALS BASED ON ACTIVE TUNING OF GRAPHENE AND APPLICATION ~71:SHANDONG UNIVERSITY, No. 1500, Shunhua Road, High-tech Zone, Jinan, People's Republic of China ~72: LIU, Xiaoyu;SHI, Yanpeng;SONG, Jinmei;WANG, Luyao~ 33:CN ~31:202110103835.X ~32:26/01/2021

2021/08123 ~ Complete ~54:ORTHODONTIC RETAINER FOR RETAINING AFTER CORRECTION OF MAXILLARY DEVIATION OF PATIENT AND MANUFACTURING METHOD THEREFOR ~71:Jilin University, No.2699 Qianjin Street, Chaoyang District, Changchun City, Jilin Province, 130012, People's Republic of China ~72: BAO, Xingfu;GAO, Shang;HU, Min;JIA, Yifan;JIANG, Huan;LI, Yutong;QI, Huichuan;WANG, Shaotai;WANG, Yuzhuo;WEI, Xiaoxi;YU, Dongsheng;ZHANG, Yi~ 33:CN ~31:202110747422.5 ~32:02/07/2021

2021/08148 ~ Complete ~54:A SIMULTANEOUS LOCATION AND MAPPING BASED AUTONOMOUS NAVIGATION SYSTEM ~71:BRAMHANE, Lokesh Kumar, BTI COLONY, CHHAPARA DIST. - SEONI, South Africa;DESHMUKH, Amol, 1, SBI COLONY, SOMALWADA, WARDHA ROAD, NAGPUR-, India;JAJULWAR, Kapil K., PLOT NO. 22 B, PAWANSUT NAGAR, BEHIND SUTGIRNI, UMRER ROAD, NAGPUR, India;KADBE, Premanand, VIIT STAFF QTR 9, VIDYA PRATISHTHAN KAMALNAYAN BAJAJ INSTITUTE OF ENGINEERING AND TECHNOLOGY, VIDYANAGARI, BHIGWAN ROAD, BARAMATI DIST. PUNE, India;PATIL, Balasaheb Hanumantrao, VIDYA PRATISHTHAN KAMALNAYAN BAJAJ INSTITUTE OF ENGINEERING AND TECHNOLOGY, VIDYANAGARI, BHIGWAN ROAD, BARAMATI DIST. PUNE, India ~72: BRAMHANE, Lokesh Kumar;DESHMUKH, Amol;JAJULWAR, Kapil K.;KADBE, Premanand;PATIL, Balasaheb Hanumantrao~

2021/08155 ~ Complete ~54:PROCESS FOR THE SMELTING OF A METALLIFEROUS FEEDSTOCK MATERIAL ~71:AFRICAN RAINBOW MINERALS LIMITED, 24 Impala Road, Chislehurst, South Africa ~72: BOUWER, Petrus, Hendrik, Ferreira~ 33:NL ~31:2023109 ~32:10/05/2020

2021/08142 ~ Complete ~54:ADJUSTABLE-SIZE PROTECTIVE VEST ~71:Protecop, 33 Boulevard Malesherbes, PARIS 75008, FRANCE, France ~72: HOEBANX, Emmanuelle;LESIEUR, Olivier~ 33:FR ~31:2010892 ~32:23/10/2020

2021/08143 ~ Complete ~54:COMBINED APPLICATION OF HAEMOPHILUS PARASUIS LC STRAIN AND HAEMOPHILUS PARASUIS LZ-20100109 STRAIN ~71:INSTITUTE OF ANIMAL SCIENCE AND VETERINARY MEDICINE SHANDONG ACADEMY OF AGRICULTURAL SCIENCES, 202 Industrial North Road, Licheng District, Shandong Province, People's Republic of China ~72: CHEN, Zhi;GUO, Lihui;LIU, Fei;REN, Sufang;SUN, Wenbo;WU, Jiaqiang;YU, Jiang;ZHANG, Yuyu~

2021/08114 ~ Provisional ~54:A BIN ~71:KAMOGILO MARGARET RAPHADU, 689 Canary Lane, East Bank, South Africa ~72: RAPHADU, Kamogelo Margaret~

2021/08128 ~ Complete ~54:SEPARATION, INSTALLATION AND SYSTEM METHOD OF ORGANIC SOLVENT FOR FLAT PANEL DISPLAY BASED ON CONDENSATION METHOD ~71:Hefei University of Technology, 193# Tunxi Road, Baohe District, Hefei City, Anhui Province, People's Republic of China ~72: Chen Yihan;Cui Kangping;Guo Zhi;Ni Jinjuan;Yang Yongjie;Zhang Hongzhi~

2021/08157 ~ Complete ~54:PROBIOTIC COMPOSITIONS AND USES THEREOF ~71:PROBI AB, Ideongatan 1A, Sweden ~72: RALSTON, Stuart Hamilton;SOPHOCLEOUS, Antonia~ 33:GB ~31:1905386.7 ~32:16/04/2019

2021/08159 ~ Complete ~54:PLANT PARASITIC NEMATODE CONTROL AGENT AND METHOD FOR CONTROLLING PLANT PARASITIC NEMATODE ~71:MEIJI SEIKA PHARMA CO., LTD., 4-16, Kyobashi 2-chome Chuo-ku, Tokyo, 1048002, Japan ~72: ATSUSHI SATO;HARUKA TAKEUCHI;RYO HORIKOSHI;YASUMICHI ONOZAKI~ 33:JP ~31:2019-098327 ~32:27/05/2019

2021/08160 ~ Complete ~54:TENSION MECHANISM FOR BELT-TYPE TRIBOELECTRIC SEPARATOR DEVICES ~71:SEPARATION TECHNOLOGIES LLC, 101 Hampton Avenue, Needham, Massachusetts, 02494, United States of America ~72: ARI EIRIKSSON;JOSE L RIVERA-ORTIZ~ 33:US ~31:62/831,329 ~32:09/04/2019

2021/08162 ~ Complete ~54:USE OF A SUGAR OR SUGAR ALCOHOL ~71:UNILEVER IP HOLDINGS B.V., Weena 455, 3013, AL Rotterdam, Netherlands ~72: AMITABHA MAJUMDAR;ANINDYA DASGUPTA;NEHA SALGAONKAR;PRATHYUSHA MALLEMALA;SHANTHI APPAVOO~ 33:EP ~31:19174808.6 ~32:16/05/2019

2021/08168 ~ Complete ~54:HETEROLOGOUS ADMINISTRATION OF TAU VACCINES ~71:AC Immune SA, EPFL Innovation Park, Building B, LAUSANNE 1015, SWITZERLAND, Switzerland;Janssen Pharmaceuticals, Inc., 1125 Trenton-Harbourton Rd., TITUSVILLE 08560, NJ, USA, United States of America ~72: CHAKKUMKAL, Anish;DE MARCO, Donata;GHIMIRE, Saroj Raj;GOUDSMIT, Jaap;HICKMAN, David;MUHS, Andreas;PIHLGREN BOSCH, Maria;PIOT, Nicolas;RAMSBURG, Elizabeth Anne;SADAKA, Charlotte;VUKICEVIC VERHILLE, Marjia~ 33:US ~31:62/837,987 ~32:24/04/2019

2021/08154 ~ Complete ~54:6-(2,4-DICHLOROPHENYL)-5-[4-[(3S)-1-(3-FLUOROPROPYL)PYRROLIDIN-3-YL]OXYPHENYL]-8,9-DIHYDRO-7H-BENZO[7]ANNULENE-2-CARBOXYLIC ACID FOR USE IN METASTATIC OR ADVANCED BREAST CANCER PATIENTS ~71:SANOI, 54 rue La Boëtie, France ~72: ANNEHEIM-HERBELIN, Sandrine;CARTOT-COTTON, Sylvaine;CELANOVIC, Marina;COHEN, Patrick;GOSSELIN, Alice;PAUX, Gautier~ 33:EP ~31:19305593.6 ~32:09/05/2019;33:EP ~31:19305679.3 ~32:28/05/2019;33:US ~31:62/945,311 ~32:09/12/2019

2021/08156 ~ Complete ~54:ELECTROSURGICAL SYSTEM ~71:CREO MEDICAL LIMITED, Creo House Unit 2, Beaufort Park, Beaufort Parkway, United Kingdom ~72: HANCOCK, Christopher;PRESTON, Shaun;SWAIN, Sandra;TAPLIN, William;ULLRICH, George;WEBB, David~ 33:GB ~31:1906008.6 ~32:30/04/2019

2021/08163 ~ Complete ~54:REMOTE EQUIPMENT MONITORING SYSTEM ~71:CORNELL PUMP COMPANY, 16261 Southeast 130th Avenue, Clackamas, Oregon, 97015, United States of America ~72: ADAM LINDEMAN;ANDREW ENTERLINE;MARCUS DAVI~ 33:US ~31:62/840,025 ~32:29/04/2019

2021/08165 ~ Complete ~54:APPLICATION OF KDM5A GENE AND ATRX GENE ~71:Shenzhen Chipscreen Biosciences, Co., Ltd., 2-601~606, BIO-Incubator Gaoxin C, 1st Ave., Hi-Tech Industrial Park, Nanshan District, SHENZHEN 518057, GUANGDONG, CHINA (P.R.C.), People's Republic of China ~72: LU, Xianping;NING, Zhiqiang;PAN, Desi;SHAN, Song~ 33:CN ~31:201910228411.9 ~32:25/03/2019

2021/08126 ~ Complete ~54:AIR-PERMEABLE HOOK RAIL DEVICE FOR TOBACCO LEAF AIRING ~71:China National Tobacco Corporation Sichuan Company, Block 2, Shizishan Road, Waidong, Chengdu City, Sichuan Province, 610066, People's Republic of China;Institute of Agricultural Resources and Environment, SAAS, Block 2, Shizishan Road, Waidong, Chengdu City, Sichuan Province, 610066, People's Republic of China;Sichuan Tobacco Company Dazhou Company, Block 2, Shizishan Road, Waidong, Chengdu City, Sichuan Province, 610066, People's Republic of China ~72: CHEN, Qingrui;FAN, Hongzhu;FENG, Wenqiang;HE, Zhengchuan;HU, Yue;LI, Changke;QIN, Yanqing;XIE, Liangwen;YANG, Weili;YIN, Hongbo;YUAN, Xinyu;ZHANG, Xiao;ZHAO, Yu~

- APPLIED ON 2021/10/25 -

2021/08170 ~ Provisional ~54:JOSHUA E- SMART CARD ~71:IJERE JOSHUA IZUCHUKWU, NO 155 OLD ONITSHA ROAD, Nigeria ~72: IJERE JOSHUA IZUCHUKWU~

2021/08194 ~ Complete ~54:METHOD FOR REALIZING ANTI-ICING OF AIRCRAFT SURFACE BY LUBRICATING WITH MAGNETO-SENSITIVE POROUS ANTI-ICING COMPOSITE MATERIAL ~71:Shanghai

Jiao Tong University, 800 Dongchuan RD. , Minhang District, Shanghai, 200240, People's Republic of China ~72: HUANG, Xiaobin;KONG, Weiliang;LI, Xiaofei;LIU, Hong~

2021/08208 ~ Complete ~54:CANAGLIFLOZIN FOR THE TREATMENT OF DIABETIC PATIENTS WITH CHRONIC KIDNEY DISEASE ~71:Janssen Pharmaceutica NV, Turnhoutseweg 30, BEERSE 2340, BELGIUM, Belgium ~72: ROSENTHAL, Norman R.~ 33:US ~31:62/823,719 ~32:26/03/2019;33:US ~31:62/823,722 ~32:26/03/2019;33:US ~31:62/823,724 ~32:26/03/2019;33:US ~31:62/835,550 ~32:18/04/2019

2021/08215 ~ Complete ~54:ELECTROSURGICAL SYSTEM ~71:CREO MEDICAL LIMITED, Creo House Unit 2, Beaufort Park, Beaufort Park Way, United Kingdom ~72: HANCOCK, Christopher;PRESTON, Shaun;TAPLIN, William;ULLRICH, George;WEBB, David~ 33:GB ~31:1906009.4 ~32:30/04/2019

2021/08171 ~ Provisional ~54:HYDRAULIC SEAL ~71:GIFFORD, Jason Laurence, 14 Sinden Avenue, Randpark Ridge, South Africa ~72: GIFFORD, Jason Laurence~

2021/08186 ~ Complete ~54:ASSESSMENT METHOD OF POTENTIAL ECOLOGICAL RISKS OF HEAVY METALS IN TOPSOIL OF A FARMLAND REGION ~71:LINYI UNIVERSITY, West Side of North Section of Industrial Avenue, Lanshan District, Linyi City, Shandong Province, 276000, People's Republic of China ~72: JIAO, Wei;LI, Bao~

2021/08200 ~ Complete ~54:METHOD FOR ASSESSMENT OF SUSTAINABLE DEVELOPMENT OF NATURAL RESERVE ~71:MINISTRY OF ECOLOGY AND ENVIRONMENT CENTER FOR SATELLITE APPLICATION ON ECOLOGY ENVIRONMENT, NO.4 FENGDE EAST ROAD, People's Republic of China ~72: FU, ZHUO;HOU, PENG;JIN, CHUANPING;LIU, XIAOMAN;LV, NA;WANG, CHAO;WANG, YONG;XIAO, RULIN;YUAN, JINGFANG;ZHANG, WENGUO~

2021/08209 ~ Complete ~54:PREGABALIN FORMULATIONS AND USE THEREOF ~71:Orion Corporation, Orionintie 1, ESPOO 02200, FINLAND, Finland ~72: HUHTINEN, Mirja;LAMMINEN, Terttu;SALMIA, Jukka;TERVAPURO, Johanna;VERCRUYSSSE, Jürger~ 33:FI ~31:20195226 ~32:26/03/2019

2021/08173 ~ Provisional ~54:UNDERGROUND MINE UTILITY VEHICLE EXPLOSIVES ENCLOSURE ~71:MASHA TSEBISHI PASCHAL, stand no 117, garagopola tukakgomo village, South Africa;NTSOANE MPORO ELVIS, stand no 117, garagopola tukakgomo village, South Africa ~72: MASHA TSEBISHI PASCHAL;NTSOANE MPORO ELVIS~

2021/08176 ~ Provisional ~54:PHANTOM PLAYING CARDS 4IR TECHNOLOGY ~71:eesaa muhammad, 4 main avenu killarney, South Africa ~72: eesaa~

2021/08185 ~ Complete ~54:PREPARATION AND APPLICATION OF MOLECULARLY IMPRINTED COMPOSITE MEMBRANE BASED ON THE CAGE-SHAPED FILLERS ~71:Shihezi University, No. 211, Beisi Road, Shihezi City, Xinjiang Uygur Autonomous Region, People's Republic of China ~72: Cheng Yun;Fan Yingying;Li Xueqin;Wei Zhong~

2021/08195 ~ Complete ~54:AIRCRAFT ANTI-ICING COMPOSITE MATERIAL AND PREPARATION METHOD THEREOF ~71:Shanghai Jiao Tong University, 800 Dongchuan RD., Minhang District, Shanghai, 200240, People's Republic of China ~72: HUANG, Xiaobin;KONG, Weiliang;LI, Xiaofei;LIU, Hong~

2021/08196 ~ Complete ~54:SUPER-HYDROPHOBIC COATING COMPOSITE MATERIAL FOR ANTI-ICING AND DE-ICING AND PREPARATION METHOD THEREOF ~71:Shanghai Jiao Tong University, 800 Dongchuan RD. , Minhang District, Shanghai, 200240, People's Republic of China ~72: HUANG, Xiaobin;KONG, Weiliang;LI, Xiaofei;LIU, Hong~

2021/08203 ~ Complete ~54:NUCLEIC ACID, PHARMACEUTICAL COMPOSITION, CONJUGATE, PREPARATION METHOD, AND USE ~71:SUZHOU RIBO LIFE SCIENCE CO., LTD., No.168, Yuanfeng Road, Yushan Town, People's Republic of China ~72: GAO, Shan;KANG, Daiwu;TIAN, Baolei;ZHANG, Hongyan~ 33:CN ~31:201910431319.2 ~32:22/05/2019;33:CN ~31:201910433243.7 ~32:23/05/2019

2021/08204 ~ Complete ~54:WASTEWATER PURIFICATION APPARATUS AND PROCESS FOR PURIFYING WASTEWATER ~71:INVENT UMWELT- UND VERFAHRENSTECHNIK AG, Am Pestalozziring 21, Germany ~72: HÖFKEN, Marcus;HUBER, Peter~ 33:DE ~31:10 2019 111 489.6 ~32:03/05/2019

2021/08211 ~ Complete ~54:ANTIBODIES TO PYROGLUTAMATE AMYLOID- β AND USES THEREOF ~71:Janssen Pharmaceutica NV, Turnhoutseweg 30, BEERSE 2340, BELGIUM, Belgium ~72: EDWARDS, Wilson;GANESAN, Rajkumar;HUANG, Chichi;LA PORTE, Sherry;LUO, Jinquan;MERCKEN, Marc;SINGH, Sanjaya;VAN BROECK, Bianca~ 33:US ~31:62/823,785 ~32:26/03/2019

2021/08216 ~ Complete ~54:TUNNEL FOR DRYING FRUIT AND VEGETABLES ~71:RODA IBERICA, S.L., Avenida de la Llibertat, 53, 46600, Alzira (Valencia), Spain ~72: CHRISTOPHE BLANC~ 33:ES ~31:P201930314 ~32:05/04/2019

2021/08223 ~ Complete ~54:METHOD FOR SUPPRESSING RESONANCE OF VEHICLE-MOUNTED FAN AND SYSTEM ~71:CRRC DALIAN CO., LTD., No. 51, Zhongchang Street, Shahekou District, Dalian, Liaoning, 116022, People's Republic of China ~72: SHOUJUN YANG;WEI WANG;XIZHENG SUI;YULING LU;ZIJING LIU~ 33:CN ~31:201910962201.2 ~32:11/10/2019

2021/08224 ~ Complete ~54:A MANUFACTURED SEED POD, A COMPOSITION FOR A MANUFACTURED SEED POD AND A METHOD FOR MANUFACTURING A SEED POD ~71:AIRSEED TECHNOLOGIES HOLDINGS PTY LTD, 14 Francis Street, Botany,, Australia ~72: LOUW, Andries Willen;WALKER, Andrew Francis~ 33:AU ~31:2019901422 ~32:26/04/2019

2021/08212 ~ Complete ~54:ELECTRONIC VAPOUR PROVISION SYSTEM WITH OPTICAL WIRELESS COMMUNICATIONS ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: BAKER, Darryl;KORUS, Anton;MOLONEY, Patrick~ 33:GB ~31:1906243.9 ~32:03/05/2019

2021/08220 ~ Complete ~54:ASSOCIATION OF POLYCLONAL ANTIBODIES AND ANTI-PD1 OR ANTI-PDL1 ANTIBODIES FOR THE TREATMENT OF CANCER ~71:XENOTHERA, 1 rue Vauban, 44000, Nantes, France ~72: BERNARD VANHOVE;ODILE DUVAUX~ 33:EP ~31:19305556.3 ~32:30/04/2019

2021/08183 ~ Complete ~54:METHOD FOR TREATING ACID MINE DRAINAGE IN CLOSED COAL MINE ~71:China University of Mining and Technology, No.1, Daxue Road, Xuzhou City, Jiangsu Province, People's Republic of China ~72: Bao Wei;Feng Qiyang;Li Xiangdong;Li Xibin;Ren Hujun~

2021/08187 ~ Complete ~54:HPLC-MS/MS DETERMINATION METHOD FOR FLURIDONE RESIDUE ~71:Shandong Academy of Pesticide Sciences, No. 234, Beiyuan Street, Tianqiao District, Jinan City, Shandong Province, People's Republic of China ~72: Bian Yanli;Feng Yizhi;Han Jifeng;Liang Lin;Ma Xingang;Pan Jinju;Qi Xiaoxue;Zhang Aijuan~

2021/08188 ~ Complete ~54:METHOD FOR DETERMINING CYAZOFAMID AND ITS METABOLITE RESIDUES BASED ON HPLC-MS/MS METHOD ~71:Shandong Academy of Pesticide Sciences, No.234, Beiyuan Street, Tianqiao District, Jinan City, Shandong Province, People's Republic of China ~72: Bian Yanli;Feng Yizhi;Han Jifeng;Liang Lin;Ma Xingang;Pan Jinju;Qi Xiaoxue;Zhang Aijuan~

2021/08198 ~ Complete ~54:RESTRICTED IMMUNOGLOBULIN HEAVY CHAIN MICE ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: GURER, Cagan;HOSIAWA, Karolina, A.;MACDONALD, Lynn;MCWHIRTER, John;MURPHY, Andrew, J.~ 33:US ~31:61/547,974 ~32:17/10/2011;33:US ~31:61/597,969 ~32:13/02/2012;33:US ~31:61/658,459 ~32:12/06/2012

2021/08202 ~ Complete ~54:QUANTUM-RESISTANT SIM CARD ~71:QRC AAA SARL, c/o itk.swiss SA, Chemin Monséjour 2, Fribourg, 1700, Switzerland ~72: KOVAC, Stiepan, Aurélien;UNDERHILL, John, Gregory~ 33:CH ~31:00620/19 ~32:10/05/2019;33:CH ~31:00731/19 ~32:06/06/2019

2021/08219 ~ Complete ~54:COMBINATION TREATMENT OF ARTHRITIC DISEASE ~71:SYNACT PHARMA APS, Dronninggårds Allé 136, 2840 , Holte, Denmark ~72: THOMAS ENGELBRECHT NORDKILD JONASSEN~ 33:EP ~31:19173734.5 ~32:10/05/2019

2021/08172 ~ Provisional ~54:ADVANCE CAPABILITY ~71:DANIE COETZEE, 9 CONE CLOSE, South Africa;EUGENE ADRIAN VORSTER, 9 CONE CLOSE, South Africa;TANJA COETZE, 9 CONE CLOSE, South Africa ~72: DANIE COETZEE;EUGENE ADRIAN VORSTER;TANJA COETZE~ 33:ZA ~31:DC1 ~32:30/09/2021

2021/08177 ~ Complete ~54:COMPOUND AGENT FOR INHIBITING TOBACCO BUDDING AND INCREASING POTASSIUM CONTENT AND ITS APPLICATION METHOD ~71:Chenzhou Branch of Hunan Tobacco Company, No.61 Yanquan North Road, Beihu District, Chenzhou City, Hunan Province, People's Republic of China;Hengyang Branch of Hunan Tobacco Company, No. 8, Yan'an Road, Zhengxiang District, Hengyang City, Hunan Province, People's Republic of China;Tobacco Research Institute of Chinese Academy of Agricultural Sciences, No.11 Keyuan Jingsi Road, Laoshan District, Qingdao City, Shandong Province, People's Republic of China ~72: Cao Zhihui;Fang Song;Kong Fanyu;Liu Xue;Shan Xuehua;Shen Minchong;Song Dean;Sun Huiqing;Xiao Yansong;Xiao Zhipeng;Zhang Jiguang;Zhang Jixu~

2021/08178 ~ Complete ~54:LACTIC ACID BACTERIA-FERMENTED YANGJIAOCUI MELON JUICE AND PREPARATION METHOD THEREOF ~71:Hebei Agricultural University, No. 2596, Lekai South Street, Lianchi District, Baoding City, Hebei Province, 071001, People's Republic of China ~72: SANG, Yaxin;WANG, Xianghong;WANG, Zhaoling;WEI, Guanmian~ 33:CN ~31:202011468929.9 ~32:15/12/2020

2021/08193 ~ Complete ~54:METHOD FOR REALIZING ANTI-ICING OF AIRCRAFT SURFACE BY LUBRICATING WITH PHASE-CHANGE MATERIAL ~71:Shanghai Jiao Tong University, 800 Dongchuan RD. , Minhang District, Shanghai, 200240, People's Republic of China ~72: HUANG, Xiaobin;KONG, Weiliang;LI, Xiaofei;LIU, Hong~

2021/08174 ~ Provisional ~54:A PERMANENT MAGNETIC GENERATOR ~71:ROELOF ERASMUS LOTRIET, 186 Outeniqua Avenue, Waterkloof Park, Waterkloof, Pretoria, 0186, South Africa ~72: ROELOF ERASMUS LOTRIET~

2021/08222 ~ Complete ~54:TEMPERATURE RISE MONITORING METHOD WITH AUTOMATIC AMBIENT TEMPERATURE COMPENSATION, LOCOMOTIVE OPERATION CONTROL METHOD, AND LOCOMOTIVE ~71:CRRC DALIAN CO., LTD., No. 51, Zhongchang Street, Shahekou District, Dalian, Liaoning, 116022, People's Republic of China ~72: GUANGXING TIAN;TAO JIANG;TIANWEI QU;WEI WANG;XIZHENG SUI;ZIJING LIU~ 33:CN ~31:201910984161.1 ~32:16/10/2019

2021/08190 ~ Complete ~54:PREPARATION METHOD OF TRADITIONAL CHINESE MEDICINE HEALTH-PRESERVING COFFEE DRINK ~71:Bozhou University, 2266 Tangwang Avenue, Economic Development Zone, Bozhou City, Anhui Province, People's Republic of China ~72: Fan Fei;Li Shuping;Lu Ning;Pu Shunchang;Wang Peng;Yao Huajiao;Zhang Yu~

2021/08197 ~ Complete ~54:AU-AG NANOSHELL SENSOR AND TEST STRIP FOR DETECTING PROSTATE CANCER MARKER ~71:Yangzhou University, 88 South Daxue Road, Yangzhou City, People's Republic of China ~72: BI, Caili;CAO, Xiaowei;GE, Shengjie;MAO, Yu~

2021/08218 ~ Complete ~54:GENE-EDITING SYSTEMS FOR MODIFYING A SCN9A OR SCN10A GENE AND METHODS OF USE THEREOF ~71:VERTEX PHARMACEUTICALS INCORPORATED, 50 Northern Avenue, Boston, Massachusetts, 02210, United States of America ~72: ANGELA YEN;SARAH JEAN SPENCER;SHEENA SAAYMAN;SOPHIA ESPANOLA;STUART CAHALAN~ 33:US ~31:62/833,523 ~32:12/04/2019

2021/08225 ~ Complete ~54:WATERPROOF PERFORMANCE TEST DEVICES FOR BATTERY BOXES OF ELECTRIC VEHICLES ~71:NANJING INSTITUTE OF TECHNOLOGY, No. 1, Hongjing Road, Jiangning, Jiangsu, People's Republic of China ~72: ZHAO, Zhendong~ 33:CN ~31:201910264019.X ~32:03/04/2019

2021/08179 ~ Complete ~54:METHOD AND SYSTEM FOR DETERMINING ANISOTROPIC PERMEABILITY OF INTERCALATED SHALE ~71:China University of Petroleum (East China), No. 66, Changjiang West Road, Huangdao District, Qingdao, Shandong Province, 266580, People's Republic of China ~72: CAO, Xiaopeng;CHEN, Liyang;FENG, Qihong;GUO, Tiankui;LIANG, Yipu;LIU, Jingyu;LIU, Zupeng;SHI, Xian;SUN, Tao;WANG, Sen;WANG, Xiukun;YANG, Min;YANG, Yuxuan~ 33:CN ~31:202110510147.5 ~32:11/05/2021

2021/08181 ~ Complete ~54:COMPUTER-BASED REMOTE MONITOR AND WARNING SYSTEM FOR CENTRAL AIR CONDITIONERS ~71:Qingdao Agricultural University, No. 700, Changcheng Road, Chengyang District, Qingdao City, Shandong Province, 266109, People's Republic of China ~72: BU, Xianxian~

2021/08184 ~ Complete ~54:PORTABLE HIGH-SENSITIVITY IMMUNOASSAY KIT FOR RACTOPAMINE AND APPLICATION THEREOF ~71:Institute of Agro-Food Science and Technology Shandong Academy of Agricultural Sciences, No. 202 Industrial North Road, Licheng District, Jinan City, Shandong Province, 250100, People's Republic of China ~72: Du Pengfei;He Feng;Hu Peng;Li Tengfei;Liu Yaobo;Ma Yanli;Wang Shoujing;Wang Weiting~

2021/08201 ~ Complete ~54:METHOD FOR PRODUCING A MULTI-LAYER COMPOSITE FILM, MULTI-LAYER COMPOSITE FILM, AND USE THEREOF ~71:KUHNE ANLAGENBAU GMBH, Einsteinstrasse 20, Germany ~72: SCHIFFMANN, Jürger Michael~ 33:DE ~31:10 2019 111 524.8 ~32:03/05/2019

2021/08206 ~ Complete ~54:METHODS OF PROMOTING THYMIC EPITHELIAL CELL AND THYMIC EPITHELIAL CELL PROGENITOR DIFFERENTIATION OF PLURIPOTENT STEM CELLS ~71:THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK, 412 LOW MEMORIAL LIBRARY, 535 WEST 116TH STREET, NEW YORK, NEW YORK 10027, USA, United States of America ~72: DANZL, Nichole;GRAS PENA, Rafael;KHOSRAVI-MAHARLOOEI, Mohsen;SYKES, Megan~ 33:US ~31:62/827,383 ~32:01/04/2019

2021/08207 ~ Complete ~54:PORTABLE MACHINE FOR CONNECTING CHAIN LINKS AND AMMUNITION ~71:John Cockerill Defense SA, Rue Alfred Deponthière, 44, LONCIN 4431, BELGIUM, Belgium ~72: COLOMINE, Anthony;GRITSKEVITCH, Innokenty;LEONNARD, Nicolas~ 33:EP ~31:19165962.2 ~32:28/03/2019

2021/08221 ~ Complete ~54:ADVANCED BATTERY CHARGING ON MODULAR LEVELS OF ENERGY STORAGE SYSTEMS ~71:TAE TECHNOLOGIES, INC., 19631 Pauling, Foothill Ranch, California, 92610, United States of America ~72: GHYRN LOVENESS;MIKHAIL SLEPCHENKOV;RAINER FASCHING;ROOZBEH NADERI~ 33:US ~31:62/854,861 ~32:30/05/2019

2021/08226 ~ Complete ~54:MAGNETIC TAG SENSOR AND METHOD FOR MANUFACTURING SAME, AND RIVERBED SCOUR DETECTION DEVICE ~71:SHANDONG UNIVERSITY, No. 12550, Erhuan East Road,

Shizhong District, Shandong, People's Republic of China ~72: CUI, Xinzhuang;GE, Zhi;GUO, Yuntong;HOU, Hetao;LI, Shucui;LIU, Jie;QU, Cuiping;QU, Jianbo;QU, Weisong;SHAN, Yuhui;SUN, Minghao;SUN, Yinglin;TIAN, Li;WANG, Tianmin;WU, Ke;YANG, Qianyi;YANG, Zeyang;YU, Haoze;ZHANG, Peng;ZHANG, Qingsong;ZHAO, Fengjin;ZHAO, Zhenyu~ 33:CN ~31:201910305365.8 ~32:16/04/2019

2021/08192 ~ Complete ~54:PAIN SIGNAL DETECTION DEVICE BASED ON ANIMAL BODY COMMUNICATION AND DETECTION METHOD THEREOF ~71:Soochow University, No.1 Shizi Street, Suzhou City, Jiangsu Province, People's Republic of China ~72: Hu Shufen;Li Yongchang;Shen Biyu;Sun Qian;Wang Jian;Xu Guangyin;Zhang Hailong~

2021/08213 ~ Complete ~54:KLEBSIELLA VACCINE AND METHODS OF USE ~71: Cornell University, Center for Technology Licensing at Cornell University, 395 Pine Tree Road, Suite 310, ITHACA 14850, NY, USA, United States of America ~72: BICALHO, Rodrigo~ 33:US ~31:62/839,017 ~32:26/04/2019;33:US ~31:62/979,795 ~32:21/02/2020

2021/08175 ~ Provisional ~54:POTABLE STIRRER, BLENDER AND MIXER ATTACHABLE TO ANY CONTAINER OR POT ~71:Farisani, 38 Mozart Lane Sagewood, South Africa ~72: Farisani Paul Ratshikombo~

2021/08180 ~ Complete ~54:SIMULATION TEST METHOD FOR MONITORING THREE-DIMENSIONAL TEMPERATURE FIELD OF GEOTHERMAL WATER REINJECTION ~71:801 Institute of Hydrogeology and Engineering Geology, SPBGM, 13632 Jingshi Road, Lixia District, Jinan City, Shandong Province, People's Republic of China;No.6 Institute of Geology and Mineral Resources Exploration of Shandong Province, 209 Huojia Road, Huancui District, Weihai City, Shandong Province, People's Republic of China;Second Institute of Hydrogeology and Engineering Geology, SPBGM, 1499 Daxuedong Road, Decheng District, Dezhou City, Shandong Province, People's Republic of China;Shandong Lunan Geological Engineering Survey Institute, 272 Jianshe East Road, Yanzhou District, Jining City, Shandong Province, People's Republic of China;Shandong No.3 Exploration Institute of Geology and Mineral Resources, 271 Jichang Road, Zhifu District, Yantai City, Shandong Province, People's Republic of China;Shandong Provincial Bureau of Geology and Mineral Resources (SPBGM), 74 Lishan Road, Lixia District, Jinan City, Shandong Province, People's Republic of China ~72: Bai Tong;Huang Xing;Jiang Lulu;Kang Fengxin;Liu Zhitao;Ma Zhemin;Shi Meng;Shi Qipeng;Sui Haibo;Wei Shanming;Yang Yabin;Zhang Pingping;Zhao Jichu;Zheng Tingting;Zhong Zhennan;Zhou Qundao~

2021/08189 ~ Complete ~54:PREPARATION METHOD OF WETTABLE POWDER OF ALTERNARIA TENUISSIMA STRAIN ~71:Qinghai Academy of Agriculture and Forestry Sciences, No.253 Ningda Road, Chengbei District, Xi'ning City, Qinghai Province, People's Republic of China ~72: Cheng Liang;Ma Yongqiang;Zhu Haixia~

2021/08199 ~ Complete ~54:A VALVE HANDWHEEL AND A VALVE ARRANGEMENT COMPRISING SUCH A VALVE HANDWHEEL ~71:IMI Hydronic Engineering International SA, Lake Geneva business Park, Route de Crassier 19, EYSINS 1262, SWITZERLAND, Switzerland ~72: MARSTORP, Leif~ 33:EP ~31:21200070.7 ~32:30/09/2021

2021/08205 ~ Complete ~54:NUCLEIC ACID, PHARMACEUTICAL COMPOSITION, CONJUGATE, PREPARATION METHOD, AND USE ~71:SUZHOU RIBO LIFE SCIENCE CO., LTD., No.168, Yuanfeng Road, Yushan Town, People's Republic of China ~72: GAO, Shan;KANG, Daiwu;LIU, Tao;ZHANG, Hongyan~ 33:CN ~31:201910430588.7 ~32:22/05/2019

2021/08191 ~ Complete ~54:PREPARATION METHOD AND APPLICATION OF POLYPHENOL COMPLEXES WITH ANTIOXIDANT AND AMYLASE INHIBITION FUNCTIONS ~71:Qingdao Agricultural University, 700 Changcheng Road, Chengyang District, Qingdao City, Shandong Province, 266109, People's Republic of China

~72: DU, Dehong;HU, Yue;JIANG, Wenli;LIU, Peng;WANG, Fengwu;XIU, Tiantian;XUE, Changhui;YANG, Shuo;ZHANG, Shuangling~ 33:CN ~31:202111067360.X ~32:13/09/2021

2021/08210 ~ Complete ~54:ISOLATION AND CULTIVATION OF MUSCLE AND FAT CELLS FROM CRUSTACEANS ~71:Shiok Meats Pte. Ltd., 9 Chin Bee Drive, #05-01, Innovate 360, SINGAPORE 619860, SINGAPORE, Singapore ~72: LING, Ka Yi;SRIRAM, Sandhya~ 33:SG ~31:10201900357Q ~32:15/01/2019;33:US ~31:62/856,479 ~32:03/06/2019

2021/08217 ~ Complete ~54:LIPID-BASED NANOPARTICLES AND USE OF SAME IN OPTIMIZED INSULIN DOSING REGIMENS ~71:SDG, INC., 10000 Cedar Avenue Suite 6, Cleveland, Ohio, 44106, United States of America ~72: W. BLAIR GEHO~ 33:US ~31:62/833,228 ~32:12/04/2019;33:US ~31:62/988,748 ~32:12/03/2020

2021/08214 ~ Complete ~54:SOLAR ENERGY ROOF TILE, SOLAR ENERGY SYSTEM AND METHOD FOR OBTAINING ENERGY FROM SOLAR RADIATION ~71:MEYER BURGER (GERMANY) GMBH, An der Baumschule 6-8, Germany ~72: HAKENBERG, Peter~ 33:DE ~31:10 2019 112 799.8 ~32:15/05/2019

2021/08182 ~ Complete ~54:IRON ION PHOTOELECTRIC SENSOR WITH AN ITO SUBSTRATE AND PREPARATION METHOD THEREOF ~71:LINYI UNIVERSITY, West Side of North Section of Industrial Avenue, Lanshan District, Linyi City, Shandong Province, 276000, People's Republic of China ~72: BAI, Zhenyu;HU, Xueping;KONG Lingkai;SONG, Xingliang~ 33:CN ~31:202110564308.9 ~32:24/05/2021

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

Application Number	Assignor	Assignee
2016/05434	ANDREA BARAUSSE	THE TRUSTEES FOR THE TIME BEING OF THE BARAUSSE FAMILY
2019/01089	SHIJIAZHUANG SAGACITY NEW DRUG DEVELOPMENT CO., LTD.	MEDSHINE DISCOVERY INC.
2009/06100	NOVA CHEMICALS INC.	BVPV STYRENICS LLC
2010/04457	RATIOPHARM GMBH	THERAMEX HQ UK LIMITED
2020/02771	LT LIGHTING (TAIWAN) CORPORATION	LT (USA) CORPORATION
2020/02776	LT LIGHTING (TAIWAN) CORPORATION	LT (USA) CORPORATION
2020/02910	PIQUR THERAPEUTICS AG	TORQUR AG
2020/02953	LT LIGHTING (TAIWAN) CORPORATION	LT (USA) CORPORATION
2020/05124	SAFE TAKE CASH (PTY) LTD.	VAN DEN BERG, GERHARD JOHAN
2017/03181	ANTHROGENESIS CORPORATION	CLARITY ACQUISITION II, LLC
2017/03181	ANTHROGENESIS LLC	CELULARITY INC.
2020/07563	AAI CORPORATION	TEXTRON SYSTEMS CORPORARTION
2020/07801	KANG MANG YUAN (GUIZHOU) TECHNOLOGY DEVELOPMENT CO., LTD	GIUZHOU INSTITUTE OF MATERIALS UNDUSTRY TECHNOLOGY
2020/07973	KANG MANG YUAN (GUIZHOU) TECHNOLOGY DEVELOPMENT CO., LTD	GIUZHOU INSTITUTE OF MATERIALS UNDUSTRY TECHNOLOGY
2020/05700	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2020/05637	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED

Application Number	Assignor	Assignee
2020/05541	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2020/05394	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2020/05156	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2020/05113	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2020/06323	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2020/05397	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2020/05699	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2020/06778	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2020/06780	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2020/07168	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/02355	DIRECCTECH GLOBAL GMBH	WINDQUIET TECHNOLOGIES, INC.
2021/00815	GENERAL ELECTRIC TECHNOLOGY GMBH	REEL ALESA AG
2008/07447	UCB PHARMA S.A.	UCB BIOPHARMA SRL
2020/05816	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2021/03123	WARREN MYBURGH	WIFI POWER BUDDY HOLDING COMPANY (PTY) LTD
2021/07062	ZHEJIANG ACADEMY OF AGRICULTURAL SCIENCES	CULTIVATE LAND AND FERTILIZER MANAGEMENT STATION OF ZHEJIANG
2013/08900	ABZENA (CAMBRIDGE) LIMITED	GENMAB B.V.
2019/05924	APEX GLORY HOLDINGS LTD.	MEDSCOPE BIOTECH CO., LTD
2021/01748	INTEX INDUSTRIES XIAMEN CO. LTD.	INTEX MSARKETING LTD.
2012/00031	ANTHROGENESIS LLC	CELULARITY INC.
2012/00031	ANTHROGENESIS CORPORATION	CLARITY ACQUISITION II, LLC
2021/01696	BENITEC BIOPHARMA PTY LTD	BENITEC IP HOLDINGS INC.
2021/02176	PRETORIUS, GERARD	AFRICAN RAINBOW MINERALS LIMITED
2019/08070	LUNDBECK LA JOLLA RESEARCH CENTER, INC.	H. LUNDBECK A/S
2020/01208	LUNDBECK LA JOLLA RESEARCH CENTER, INC.	H. LUNDBECK A/S
2018/03568	LOZANO PENA, RICARDO	C DOS CONSULTING & ENGINEERING, S.L.
2017/05709	LOZANO PENA, RICARDO	C DOS CONSULTING & ENGINEERING, S.L.
2017/07009	CARRASCOSA PEREZ, MARCO ANTONIO	C DOS CONSULTING & ENGINEERING, S.L.
2014/04864	UD TRUCKS CORPORATION	VOLVO TRUCK CORPORATION
2009/04125	ANTONIETTA PAMELA MARTIN	ADCOCK INGRAM INTELLECTUAL PROPERTY (PROPRIETARY) LIMITED
2021/06646	PING LI	FARMLAND IRRIGATION RESEARCH INSTITUTE OF CHINESE ACADEMY OF AGRICULTURAL SCIENCES
2013/07018	HUTCHINGS, ROBERT (DECEASED) and OOSTERLAAK, NEIL (DECEASED)	HUTCHINGS, ALICE and OOSTERLAAK, JESSE
2017/05666	VHSQUARED LIMITED	SORRISO PHARMACEUTICALS, INC.
2020/01578	BESSARABOV, GEORGIEVICH DMITRI; MODISHA, PHILLIMON MOKANNE; OUMA, CECIL NAPHTALY MORO; OBODO, KINGSLEY ONYEBUCHI	CLEGG, ALAN MITCHELL

Application Number	Assignor	Assignee
2020/03044	KK DELIVER LIMITED	KEKEQIHUO (SHENZHEN) TECHNOLOGIES CO., LTD.
2021/005703	ANTONIETTA PAMELA MARTIN	ADCOCK INGRAM INTELLECTUAL PROPERTY (PROPRIETARY) LIMITEDS
2013/04730	TOYAMA PREFECTURE'S	SDS BIOTECH K.K. and NATIONAL RESEARCH and DEVELOPMENT AGENCY NATIONAL AGRICULTURE AND FOOD RESEARCH ORGANISATION
2020/06327	LUNDBECK LA JOLLA RESEARCH CENTER, INC.	H. LUNDBECK A/S
2020/02656	URSURE, INC.	ORASURE TECHNOLOGIES, INC.
2020/05124	VAN DER MERWE, ALWYN	SAFE TAKE CASH (PTY) LTD.
2020/04619	RHODE ISLAND HOSPITAL	LUBRIS LLC
2015/04601	HUA MEDICINE	HUA MEDICINE (SHANGHAI) LTD.
2020/07217	MICROSOFT TECHNOLOGY LICENSING	ZENIMAX MEDIA INC.
2020/01742	OFINNO, LLC	BEIJING XIAOMI MOBILE SOFTWARE CO., LTD
2016/01427	MAHLE METAL LEVE S.A.; LSDATA TECNOLOGIA LTDA and ADVEL TECNOLOGIA E COMERCIO EIRELI	INNOFERM TECNOLOGIA LTDA
2020/07052	MICROSOFT TECHNOLOGY LICENSING	ZENIMAX MEDIA INC.
2012/05951	ROHM AND HAAS COMPANY	AGROFRESH INC.
2015/05604	DOW AGROSCIENCES LLC	AGROFRESH INC.
2020/04519	U SYSTEMS (PTY) LTD	U ENERGY LTD
2020/07566	MEDSHINE DISCOVERY INC.	CHIA TAI TIANQING PHARMACEUTICAL GROUP CO., LTD.
2014/01211	INTELLIKINE LLC	TAKEDA PHARMACEUTICAL COMPANY LIMITED
2017/08126	SUPRASENSOR TECHNOLOGIES, LLC	SUPRASENSOR ENTERPRISES, INC.
2017/08126	SUPRASENSOR ENTERPRISES, INC.	THE CLIMATE CORPORATION
2021/02177	PRETORIUS, GERARD	AFRICAN RAINBOW MINERALS LIMITED
2020/05330	ENSLIN, ANDRIES LOUIS	VISSEER, LAMBERTUS NICOLAAS
2016/07314	NCM INNOVATIONS (PTY) LTD	EPIROC HOLDINGS SOUTH AFRICA (PTY) LTD
2020/03706	MERITAGE PHARMA, INC.	SHIRE VIROPHARMA LLC
2020/03706	SHIRE VIROPHARMA LLC	VIROPHARMA BIOLOGICS LLC
2010801678	STRUTFAST (PTY) LIMITED	ARB GLOBAL PROPRIETARY LIMITED
2014/02201	STRUTFAST (PTY) LIMITED	ARB GLOBAL PROPRIETARY LIMITED
2019/03076	BLUEBIRD BIO, INC.	2SEVENTY BIO, INC.
2019/02800	BLUEBIRD BIO, INC.	2SEVENTY BIO, INC.
2019/01384	BLUEBIRD BIO, INC.	2SEVENTY BIO, INC.
2017/04059	BLUEBIRD BIO, INC.	2SEVENTY BIO, INC.
2017/00730	BLUEBIRD BIO, INC.	2SEVENTY BIO, INC.
2019/01336	BLUEBIRD BIO, INC.	2SEVENTY BIO, INC.
2016/08378	BLUEBIRD BIO, INC.	2SEVENTY BIO, INC.
2019/02286	BLUEBIRD BIO, INC.	2SEVENTY BIO, INC.

Application Number	Assignor	Assignee
2016/07175	BLUEBIRD BIO, INC.	2SEVENTY BIO, INC.
2019/00944	BLUEBIRD BIO, INC.	2SEVENTY BIO, INC.
2016/07174	BLUEBIRD BIO, INC.	2SEVENTY BIO, INC.
2017/00752	STRUTFAST (PTY) LIMITED	ARB GLOBAL PROPRIETARY LIMITED
2011/01275	COMES ALIVE INTERNATIONAL INC.	WEALTHVOX INNOVATION LIMITED
2013/02367	MAN TRUCK & BUS OSTERREICH AG	MAN TRUCK & BUS SE
2012/08473	AEL MINING SERVICES LIMITED	AECI MINING LIMITED
2011/02058	AEL MINING SERVICES LIMITED	AECI MINING LIMITED
2012/08551	AEL MINING SERVICES LIMITED	AECI MINING LIMITED
2011/01346	AEL MINING SERVICES LIMITED	AECI MINING LIMITED
2012/05851	AEL MINING SERVICES LIMITED	AECI MINING LIMITED
2011/01044	AEL MINING SERVICES LIMITED	AECI MINING LIMITED
2012/01554	AEL MINING SERVICES LIMITED	AECI MINING LIMITED
2010/06760	AEL MINING SERVICES LIMITED	AECI MINING LIMITED
2010/01384	AEL MINING SERVICES LIMITED	AECI MINING LIMITED
2008/05239	AEL MINING SERVICES LIMITED	AECI MINING LIMITED
2009/07578	AEL MINING SERVICES LIMITED	AECI MINING LIMITED
2009/04405	AEL MINING SERVICES LIMITED	AECI MINING LIMITED
2009/07222	AEL MINING SERVICES LIMITED	AECI MINING LIMITED
2009/04404	AEL MINING SERVICES LIMITED	AECI MINING LIMITED
2009/02837	AEL MINING SERVICES LIMITED	AECI MINING LIMITED
2009/02836	AEL MINING SERVICES LIMITED	AECI MINING LIMITED
2007/09566	AEL MINING SERVICES LIMITED	AECI MINING LIMITED
2007/02608	AEL MINING SERVICES LIMITED	AECI MINING LIMITED
2007/08113	AEL MINING SERVICES LIMITED	AECI MINING LIMITED
2007/08112	AEL MINING SERVICES LIMITED	AECI MINING LIMITED
2009/01785	AEL MINING SERVICES LIMITED	AECI MINING LIMITED
2007/05016	AEL MINING SERVICES LIMITED	AECI MINING LIMITED
2008/08036	AEL MINING SERVICES LIMITED	AECI MINING LIMITED
2008/08037	AEL MINING SERVICES LIMITED	AECI MINING LIMITED
2006/10245	AEL MINING SERVICES LIMITED	AECI MINING LIMITED
2020/01698	AEL MINING SERVICES LIMITED	AECI MINING LIMITED
2017/08369	AEL MINING SERVICES LIMITED	AECI MINING LIMITED
2017/04315	AEL MINING SERVICES LIMITED	AECI MINING LIMITED
2017/01808	AEL MINING SERVICES LIMITED	AECI MINING LIMITED
2017/02038	AEL MINING SERVICES LIMITED	AECI MINING LIMITED
2016/04394	AEL MINING SERVICES LIMITED	AECI MINING LIMITED
2015/07831	AEL MINING SERVICES LIMITED	AECI MINING LIMITED
2015/04706	AEL MINING SERVICES LIMITED	AECI MINING LIMITED
2016/01096	AEL MINING SERVICES LIMITED	AECI MINING LIMITED
2010/07864	AEL MINING SERVICES LIMITED	AECI MINING LIMITED
2015/02027	AEL MINING SERVICES LIMITED	AECI MINING LIMITED
2013/02511	AEL MINING SERVICES LIMITED	AECI MINING LIMITED
2014/08241	AEL MINING SERVICES LIMITED	AECI MINING LIMITED
2014/04062	AEL MINING SERVICES LIMITED	AECI MINING LIMITED
2012/07433	AEL MINING SERVICES LIMITED	AECI MINING LIMITED
2014/01726	AEL MINING SERVICES LIMITED	AECI MINING LIMITED
2012/07772	AEL MINING SERVICES LIMITED	AECI MINING LIMITED

Application Number	Assignor	Assignee
2014/01724	AEL MINING SERVICES LIMITED	AECI MINING LIMITED
2014/01725	AEL MINING SERVICES LIMITED	AECI MINING LIMITED
2012/07771	AEL MINING SERVICES LIMITED	AECI MINING LIMITED
2012/07171	AEL MINING SERVICES LIMITED	AECI MINING LIMITED
2013/03513	AEL MINING SERVICES LIMITED	AECI MINING LIMITED
2013/05350	AEL MINING SERVICES LIMITED	AECI MINING LIMITED
2011/09555	AEL MINING SERVICES LIMITED	AECI MINING LIMITED
2013/04898	AEL MINING SERVICES LIMITED	AECI MINING LIMITED
2013/06473	AEL MINING SERVICES LIMITED	AECI MINING LIMITED
2013/00225	AEL MINING SERVICES LIMITED	AECI MINING LIMITED
2018/03824	NCM INNOVATIONS (PTY) LTD	EPIROC HOLDINGS SOUTH AFRICA (PTY) LTD
2021/00645	ANTHROGENESIS CORPORATION	CLARITY ACQUISITION II, LLC
2021/05269	MARKER TRAX, LLC	OUR IP HOLDING, LLC
2021/01001	IONIS PHARMACEUTICALS, INC.	BIOGEN MA INC.
2010/03358	MERITAGE PHARMA, INC	SHIRE VIROPHARMA LLC
2017/06872	INEOS TECHNOLOGIES SA	INEOS TECHNOLOGIES LIMITED
2017/06871	INEOS TECHNOLOGIES SA	INEOS TECHNOLOGIES LIMITED
2019/04532	BENITEC BIOPHARMA PTY LTD	BENITEC IP HOLDINGS INC.
2020/07547	APRINOIA THERAPEUTICS INC.	APRINOIA THERAPEUTICS LIMITED
2009/05371	LEO PHARMA A/S	UNION THERAPEUTICS A/S
2018/03528	LEO PHARMA A/S	UNION THERAPEUTICS A/S
2019/07597	LEO PHARMA A/S	UNION THERAPEUTICS A/S
2012/09031	LEO PHARMA A/S	UNION THERAPEUTICS A/S
2020/07215	MICROSOFT TECHNOLOGY LICENSING	ZENIMAX MRDIA INC.
2021/03025	POROCEL INTERNATIONAL, LLC	EVONIK OPERATIONS GMBH
2016/06799	KAMALEDDINE, FOUAD F.	FFK TECHNOLOGIES INC.
2021/00248	LT LIGHTING (TAIWAN) CORPORATION	LT (USA) CORPORATION
2017/02993	INEOS TECHNOLOGIES	INEOS TECHNOLOGIES LIMITED
2012/09322	SPECTRUM PHARMACEUTICALS INC.	UNICYCIVE THERAPEUTICS, INC.
2020/01000	BREACH CLARITY, INC.	SONTIQ, INC.
2011/06502	BWA WATER ADDITIVES UK LIMITED	ITALMATCH CHEMICALS GB LIMITED
2019/00399	HOWELL MARK PIENAAR and FRANS ROELOF PETRUS	TIMRITE (PTY) LTD
2006/07896	AEL MINING SERVICES LIMITED	AECI MINING LIMITED
2006/07301	AEL MINING SERVICES LIMITED	AECI MINING LIMITED
2006/01773	AEL MINING SERVICES LIMITED	AECI MINING LIMITED
2005/10293	AEL MINING SERVICES LIMITED	AECI MINING LIMITED
2019/04394	AEL MINING SERVICES LIMITED	AECI MINING LIMITED
2019/06028	AEL MINING SERVICES LIMITED	AECI MINING LIMITED
2018/08202	AEL MINING SERVICES LIMITED	AECI MINING LIMITED
2019/06906	AEL MINING SERVICES LIMITED	AECI MINING LIMITED
2018/05283	AEL MINING SERVICES LIMITED	AECI MINING LIMITED
2021/00663	SANDVIK MINING AND CONSTRUCTION AUSTRALIA PTY LTD	SANDVIK MINING AND CONSTRUCTION AUSTRALIA (PRODUCTION/SUPPLY) PTY LTD.

Application Number	Assignor	Assignee
2021/03184	DILCEM KIMYA VE DENISMANLIK ITH. IHR. SA. TIC. LTD. STI.	UCAR HEALTH GMBH
2019/00418	ALCOA USA CORP.	ALCOA WARRICK LLC
2019/00920	IONIS PHARMACEUTICALS, INC	BIOGEN MA INC.
2019/01149	JIANGSU SHENMA ELECTRIC CO., LTD.	SHANGAI SHEMAR POWER ENGINEERING CO., LTD
2019/01773	SHIJIAZHUANG SAGACITY NEW DRUG DEVELOPMENT CO., LTD.	MEDSHINE DISCOVERY INC.
2019/02298	ANT FINANCIAL (HANG ZHOU) NETWORK TECHNOLOGY CO., LTD.	BEIJING OCEANBASE TECHNOLOGY CO., LTD.
2019/04921	MOCS BEHEER B.V.	PIPE-AQUA-TEC GMBH & CO. KG
2019/05791	VOESTALPINE RAILWAY SYSTEMS NORTRAK INC	VOESTALPINE RAILWAY SYSTEMS NORTRAK I LLC
2019/07567	BUYS, ANDRE JOHANN	SECURITY DEVICES INTERNARTIONAL, INC
2019/08192	SUPRASENSOR TECHNOLOGIES, LLC	SUPRASENSOR ENTERPRISES, INC.
2019/08192	SUPRASENSOR ENTERPRISES, INC.	THE CLIMATE CORPORATION

CHANGE OF NAME IN TERMS OF REGULATION 39

Application Number	Old Name	New Name
2020/02287	SEATTLE GENETICS, INC.	SEAGEN INC.
2017/03181	CLARITY ACQUISITION II, LLC	ANTHROGENESIS LLC
2020/03091	SEATTLE GENETICS, INC.	SEAGEN INC.
2020/03880	METSO MINERALS, INC.	METSO OUTOTEC FINLAND OY
2020/05780	METSO MINERALS, INC.	METSO OUTOTEC FINLAND OY
2013/08900	ANTITOPE LTD	ABZENA (CAMBRIDGE) LIMITED
2017/04942	ZELAM LIMITED	LONZA NZ LIMITED
2017/04942	LONZA NZ LIMITED	ARXADA NZ LIMITED
2012/00031	CLARITY ACQUISITION II, LLC	ANTHROGENESIS LLC
2020/03037	SEATTLE GENETICS, INC.	SEAGEN INC.
2017/07338	SEATTLE GENETICS, INC.	SEAGEN INC.
2017/07869	SEATTLE GENETICS, INC.	SEAGEN INC.
2020/01760	SEATTLE GENETICS, INC.	SEAGEN INC.
2020/02923	SEATTLE GENETICS, INC.	SEAGEN INC.
2020/02596	SEATTLE GENETICS, INC.	SEAGEN INC.
2020/01406	SEATTLE GENETICS, INC.	SEAGEN INC.
2019/07422	DAELIM INDUSTRIAL CO., LTD.	DL HOLDINGS CO., LTD.
2021/05423	INTREXON CORPORATION	PRECIGEN, INC.
2018/04133	SEATTLE GENETICS, INC.	SEAGEN INC.
2020/04099	SEATTLE GENETICS, INC.	SEAGEN INC.
2020/05722	SEATTLE GENETICS, INC.	SEAGEN INC.
2018/06776	SEATTLE GENETICS, INC.	SEAGEN INC.
2018/06515	SEATTLE GENETICS, INC.	SEAGEN INC.

Application Number	Old Name	New Name
2018/04776	SEATTLE GENETICS, INC.	SEAGEN INC.
2018/04134	SEATTLE GENETICS, INC.	SEAGEN INC.
2014/07913	TYCO ELECTRONICS RAYCHEM BVBA	COMMSCOPE CONNECTIVITY BELGIUM BVBA
2009/05257	CANADA INC	AVIGILON PATENT HOLDING 1 CORPORATION
2019/08205	BAKER HUGHES, A GE COMPANY, LLC	BAKER HUGHES HOLDINGS LLC
2019/00418	ALCOA WARRICK LLC	KAISER ALUMINIUM WARRICK, LLC
2019/00713	VIBWIFE GMBH	VIBWIFE AG
2019/00773	SEATTLE GENETICS, INC.	SEAGEN INC.
2019/02801	SEATTLE GENETICS, INC	SEAGEN INC.
2019/02874	SEATTLE GENETICS, INC	SEAGEN INC.
2019/03805	APROGEN KIC INC.	APROGEN MEDICINES INC.
2019/04028	SECURITY DEVICES INTERNATIONAL, INC.	BYRNA TECHNOLOGIES INC.
2019/04578	NINGBO OCEANKING CHEMICAL DEVELOPING CORP.	ZHEJIANG OCEANKING CHEMICAL DEVELOPMENT CO., LTD.
2019/05094	INTREXON CORPORATION	PRECIGEN, INC.
2019/05352	SEATTLE GENETICS, INC	SEAGEN INC.
2019/05677	SEATTLE GENETICS, INC	SEAGEN INC.
2019/05791	VOESTALPINE NORTRAK INC	VOESTALPINE RAILWAY SYSTEMS NORTRAKINC.
2019/07225	SEATTLE GENETICS, INC	SEAGEN INC.
2019/07522	SEATTLE GENETICS, INC	SEAGEN INC.
2019/07623	SEATTLE GENETICS, INC	SEAGEN INC.
2019/08138	SEATTLE GENETICS, INC	SEAGEN INC.

PATENT LICENSES IN TERMS OF SECTION 53 (7)-REGULATIONS 62 AND 63

No records available

PATENT APPLICATIONS ABANDONED OR WITHDRAWN

Application Number	Not Open	Date
2020/04844	WITHDRAWN	23/08/2021
2020/05546	WITHDRAWN	01/09/2021
2020/04997	WITHDRAWN	17/08/2021
2020/05032	WITHDRAWN	17/08/2021
2020/05205	WITHDRAWN	17/08/2021
2020/05207	WITHDRAWN	17/08/2021
2020/05206	WITHDRAWN	17/08/2021
2020/05270	WITHDRAWN	01/09/2021
2020/05269	WITHDRAWN	01/09/2021

APPLICATION FOR RESTORATION OF A LAPSED PATENT

THE PATENTS ACT, No. 57 OF 1978

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

Notice is hereby given **FIKES RAYMOND OF HAHN & HAHN, 222 RICHARD STREET. HATFIELD, PRETORIA. 0001** that made application for the Restoration of the Patent granted to said **FIKES RAYMOND** an invention **GARMENT DONNER AND DOFFER** numbered **2012/05145** dated **11/07/2012** which became void **10/12/2019** owing to the non-payment of the prescribed renewal fee.

Any person may give notice on Patent of Opposition to the restoration of the patent within two months of the advertisement thereof

Notice is hereby given **MARNO R AATH OF ADAMS AND ADAMS, 4 DAVENTRY STREET, LYNNWOOD ROAD. PRETORIA** that made application for the Restoration of the Patent granted to said **MARNO RAATH** an invention **APPARATUS FOR THOROUGH BIOCHEMICAL PURIFICATION OF WASTE WATER** numbered **2012/04073** dated **04/06/2012** which became void **09/09/2020** owing to the non-payment of the prescribed renewal fee.

Any person may give notice on Patent of Opposition to the restoration of the patent within two months of the advertisement thereof

Notice is hereby given **GILEAD SCIENCES INC., OF BREDENKAMP ATTORNEYS INC., APPLICANTS ATTORNEYS, PMA HOUSE, BLOCK B, TIGERVALLEI OFFICE PARK, SILVERLAKES ROAD. PPRETORIA. 0001** that made application for the Restoration of the Patent granted to said **GILEAD SCIENCES INC.,** an invention **COMPOSITION AND METHOD OF TREATING PULMOARY HYPERTENSION** numbered **2013/02746** dated **17/04/2013** which became void **17/04/2019** owing to the non-payment of the prescribed renewal fee.

Any person may give notice on Patent of Opposition to the restoration of the patent within two months of the advertisement thereof

Notice is hereby given **PIPE TRANSFORMATION LTD OF DM KISCH INC., ATTORNEYS OF THE APPLICANT, FAERIE GLEN. PRETORIA. 0001** that made application for the Restoration of the Patent granted to said **PIPE TRANSFORMATION LT** an invention **IMPROVED PIPELINE APPARATUS** numbered **2015/01450** dated **03/03/2015** which became void **05/08/2020** owing to the non-payment of the prescribed renewal fee.

Any person may give notice on Patent of Opposition to the restoration of the patent within two months of the advertisement thereof

Notice is hereby given **GEA PROCESS ENGINEERING A/S OF HAHN & HAHN INC., 222 RIHARD STREET, HATFIELD, PRETORIA. 0001** that made application for the Restoration of the Patent granted to said **GEA PROCESS ENGINEERING A/S** an invention **SPRAY DRYER ABSORPTION PROCESS FOR FLUE GAS WITH ENTRAINED CARSE PARTICLES** numbered **2011/00256** dated **10/01/2011** which became void **14/07/2019** owing to the non-payment of the prescribed renewal fee.

Any person may give notice on Patent of Opposition to the restoration of the patent within two months of the advertisement thereof

Notice is hereby given **THE CLIMATE CORPOTRATION OF SPOOR AND FIUSHER, 11 BYLIS STREET, BUILDING NO 4, HIGHVELD EXT 73. CENTURION. PRETORIA** that made application for the Restoration of the Patent granted to said **THE CLIMATE CORPORATION** an invention **UPDATING EXECUTION OF TASKS OF AN AGRICULTURAL PRESCRIPTION** numbered **2017/01586** dated which **15/10/2021** void **04/09/2018** owing to the non-payment of the prescribed renewal fee.

Any person may give notice on Patent of Opposition to the restoration of the patent within two months of the advertisement thereof

Notice is hereby given **THE CLIMATE CORPOTRATION OF SPOOR AND FIUSHER, 11 BYLIS STREET, BUILDING NO 4, HIGHVELD EXT 73. CENTURION. PRETORIA** that made application for the Restoration of the Patent granted to said **THE CLIMATE CORPORATION** an invention **METHODS FOR AGRONOMIC AND AGRICULTURAL MONITIRING USING UNMANNED AERIAL SYSTEMS** numbered **2017/01638** dated which **15/10/2021** void **20/08/2018** owing to the non-payment of the prescribed renewal fee.

Any person may give notice on Patent of Opposition to the restoration of the patent within two months of the advertisement thereof

Notice is hereby given **THE CLIMATE CORPOTRATION OF SPOOR AND FIUSHER, 11 BYLIS STREET, BUILDING NO 4, HIGHVELD EXT 73. CENTURION. PRETORIA** that made application for the Restoration of the Patent granted to said **THE CLIMATE CORPORATION** an invention **METHODS AND SYSTEMS FOR GEMERATING SHARED COLLABORATIVE MAPS** numbered **2016/06171** dated which **15/10/2021** void **10/02/2018** owing to the non-payment of the prescribed renewal fee.

Any person may give notice on Pant of Opposition to the restoration of the patent within two months of the advertisement thereof

Notice is hereby given **THE CLIMATE CORPOTRATION OF SPOOR AND FIUSHER, 11 BYLIS STREET, BUILDING NO 4, HIGHVELD EXT 73. CENTURION. PRETORIA** that made application for the Restoration of the Patent granted to said **THE CLIMATE CORPORATION** an invention **METHOD AND SYSTEMS FOR MANAGING AGRICULTURAL ACTIVITIES** numbered **2017/03532** dated which **15/10/2021** void **10/09/2018** owing to the non-payment of the prescribed renewal fee.

Any person may give notice on Pant of Opposition to the restoration of the patent within two months of the advertisement thereof

Notice is hereby given **THE CLIMATE CORPOTRATION OF SPOOR AND FIUSHER, 11 BYLIS STREET, BUILDING NO 4, HIGHVELD EXT 73. CENTURION. PRETORIA** that made application for the Restoration of the Patent granted to said **THE CLIMATE CORPORATION** an invention **AGRICULTURAL DATA ANALYSIS** numbered **2018/00071** dated which **15/10/2021** void **03/06/2019** owing to the non-payment of the prescribed renewal fee.

Any person may give notice on Pant of Opposition to the restoration of the patent within two months of the advertisement thereof

Notice is hereby given **THE CLIMATE CORPOTRATION OF SPOOR AND FIUSHER, 11 BYLIS STREET, BUILDING NO 4, HIGHVELD EXT 73. CENTURION. PRETORIA** that made application for the Restoration of the Patent granted to said **THE CLIMATE CORPORATION** an invention **SOIL QUALITY MEASUREMENT DEVICE**

numbered **2017/05592** dated which **15/10/2021** void **29/01/2019** owing to the non-payment of the prescribed renewal fee.

Any person may give notice on Part 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

Notice is hereby given that **HOLFELD, Barry Graeme 1027 Schooner Avenue, Laser Park Honeydew South Africa** made application for voluntary surrender of the patents granted to the said **HOLFELD, Barry Graeme** numbered **2013/03183**.

Any person may give notice of opposition to the voluntary surrender of the design within two months of the advertisement hereof.

Notice is hereby given that **HOLFELD, Barry Graeme 1027 Schooner Avenue, Laser Park Honeydew South Africa** made application for voluntary surrender of the patents granted to the said **HOLFELD, Barry Graeme** numbered **2015/00108**.

Any person may give notice of opposition to the voluntary surrender of the design within two months of the advertisement hereof.

Notice is hereby given that **HOLFELD, Barry Graeme 1027 Schooner Avenue, Laser Park Honeydew South Africa** made application for voluntary surrender of the patents granted to the said **HOLFELD, Barry Graeme** numbered **2015/00109**.

Any person may give notice of opposition to the voluntary surrender of the design within two months of the advertisement hereof.

APPLICATIONS TO AMEND SPECIFICATION

THE PATENTS ACT, 1978

APPLICATIONS TO AMEND SPECIFICATION

Applicant: Cape Natural Tea Products (Proprietary) Limited of 12 Gemini Street Brackenfell, Cape Town, Western Cape, 7560, South Africa Request permission to amend the specification of letters patent no: **2005/05219** of **28 JUNE 2005** for **PROCESS FOR MAKING A BEVERAGE PRODUCT**.

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: PROVEST CEMENTITIOUS PRODUCTS (PTY) LTD 55 Brink Street C/O Brink and Beyers Naude Street, Rustenburg 0299 South Africa Request permission to amend the specification of letters: **31/08/2016** Patent Application No: **2016/6084** for **GROUTED ROCK SUPPORT TESTING APPARATUS AND METHOD.**

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: CRYSTAL LAGOONS TECHNOLOGIES, INC 1209 Orange Street, City of Wilmington, County of New Castle, 19801, Delaware United States of America Request permission to amend the specification of letters: **20/11/2007** Patent Application No: **2007/10014** for **PROCESS TO OBTAIN (IMPLEMENT AND MAINTAIN) WATER BODIES LARGER THAN 15,000 M3 FOR RECREATIONAL USE WITH COLOR, TRANSPARENCY AND CLEANNESS CHARACTERISTICS SIMILAR TO SWIMMING POOLS OR TROPICAL SEAS AT LOW COST.**

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: CRYSTAL LAGOONS TECHNOLOGIES, INC 1209 Orange Street, City of Wilmington, County of New Castle, 19801, Delaware United States of America Request permission to amend the specification of letters: **30/8/2013** Patent Application No: **2013/06553** for **SUSTAINABLE METHOD AND SYSTEM FOR TREATING WATER BODIES AFFECTED BY BACTERIA AND MICROALGAE AT LOW COST.**

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: CRYSTAL LAGOONS TECHNOLOGIES, INC 1209 Orange Street, City of Wilmington, County of New Castle, 19801, Delaware United States of America Request permission to amend the specification of letters: **16/5/2016** Patent Application No: **2016/03310** for **SYSTEM AND METHOD FOR MAINTAINING WATER QUALITY IN LARGE WATER BODIES.**

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: CANON KABUSHIKI KAISHA 302, Shimomaruko 3chome, Ohtaku, Tokyo Japan. Request permission to amend the specification of letters: **28/1/2019** Patent Application No: **2019/00569** for **DRUM UNIT, CARTRIDGE, ELECTROPHOTOGRAPHIC IMAGE FORMING APPARATUS, AND COUPLING MEMBER.**

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: 2007/03583. 22: 2007/05/03. 43: 2021/09/22

51: A23D

71: MONSANTO TECHNOLOGY LLC

72: MAKADIA VALLABH, HEISE JERALD D.,
ARHANCET JUAN P.

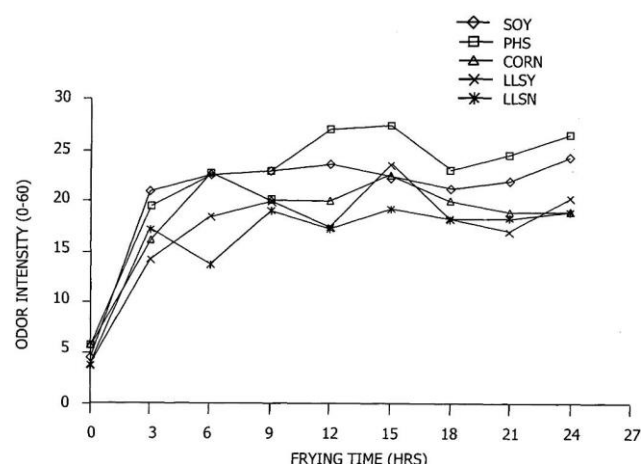
33: US 31: 60/625,506 32: 2004-11-04

33: US 31: 60/633,914 32: 2004-12-06

54: SEED OIL COMPOSITIONS

00: -

The present invention is directed to seed oil compositions that can be used for cooking and frying applications. These oil compositions of the present invention have advantageous stability characteristics. In some embodiments, the oil compositions have a low concentration of α -linolenic acid.



21: 2012/08543. 22: 2012/11/13. 43: 2021/08/03

51: A61K; C07K

71: AMGEN INC.

72: OSSLUND, Timothy D.

33: US 31: 61/334,986 32: 2010-05-14

54: HIGH CONCENTRATION ANTIBODY FORMULATIONS

00: -

Discloses herein are high concentration antibody formulations comprising an anti-sclerostin immunoglobulin and an acetate salt and/or an acetate buffer and methods of use.

21: 2014/02455. 22: 2014/04/01. 43: 2021/08/24

51: A01K; C07K; C12N

71: REGENERON PHARMACEUTICALS, INC

72: MACDONALD, LYNN, GURER, CAGAN,
MURPHY, ANDREW J., MCWHIRTER, JOHN,
MEAGHER, KAROLINA A.

33: US 31: 61/547,974 32: 2011-10-17

33: US 31: 61/597,969 32: 2012-02-13

33: US 31: 61/658,459 32: 2012-06-12

54: RESTRICTED IMMUNOGLOBULIN HEAVY CHAIN MICE

00: -

Mice having a restricted immunoglobulin heavy chain locus are provided, wherein the locus is characterized by a single polymorphic human VH gene segment, a plurality of human DH gene segments and a plurality of JH gene segments. Methods for making antibody sequences that bind an antigen (e.g., a viral antigen) are provided, comprising immunizing a mouse with an antigen of interest, wherein the mouse comprises a single human VH gene segment, a plurality of human DH

gene segments and a plurality of JH gene segments, at the endogenous immunoglobulin heavy chain locus.

21: 2014/03633. 22: 2014/05/19. 43: 2021/08/03

51: A61K

71: NIMBUS APOLLO, INC.

72: HARRIMAN, GERALDINE C., HARWOOD,
JAMES, GREENWOOD, JEREMY ROBERT,
MASSE, CRAIG E., BHAT, SATHESH

33: US 31: 61/559,023 32: 2011-11-11

33: US 31: 61/615,092 32: 2012-03-23

33: US 31: 61/651,878 32: 2012-05-25

33: US 31: 61/675,513 32: 2012-07-25

54: ACC INHIBITORS AND USES THEREOF

00: -

The present invention provides compounds useful as inhibitors of Acetyl CoA Carboxylase (ACC), compositions thereof, and methods of using the same.

21: 2014/04961. 22: 2014/07/07. 43: 2021/08/11

51: F02B; H02K

71: LIBERTINE FPE LTD.

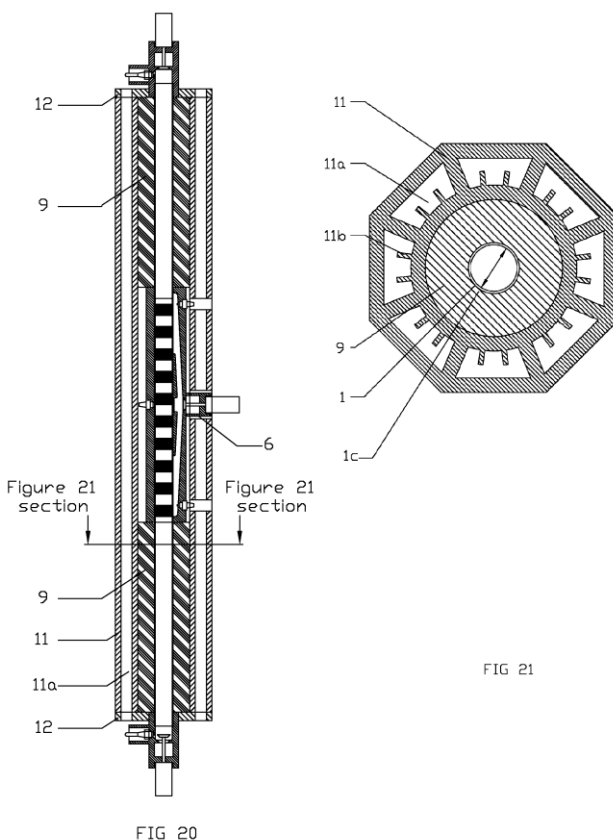
72: COCKERILL, Sam

33: GB 31: 1200889.2 32: 2012-01-19

54: A LINEAR ELECTRICAL MACHINE

00: -

A linear electrical machine comprising a movable piston, an axially segmented cylinder having least one magnetically permeable segment and a bore configured to allow the piston to move within the cylinder, a cylinder housing having a bore for receiving the segmented cylinder, and means for securing the segmented cylinder in place within the cylinder housing. This arrangement permits the construction of a free piston engine linear with improved piston position control, more consistent combustion and improved electrical conversion efficiency.



21: 2015/00439, 22: 2015/01/21, 43: 2021/08/16

51: A61K

71: Biogen MA Inc.

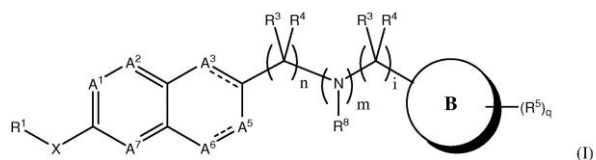
72: GUCKIAN, Kevin, KUMARAVEL,
Gnanasambandam, MA, Bin, MI, Sha, PENG,
Hairuo, SHAO, Zhaohui, SUN, Lihong, TAVERAS,
Arthur, XIN, Zhili, ZHANG, Lei

33: US 31: 61/676,692 32: 2012-07-27

54: COMPOUNDS THAT ARE S1P MODULATING AGENTS AND/OR ATX MODULATING AGENTS

00: -

Compounds of formula (I) can modulate the activity of one or more S1P receptors and/or the activity of autotaxin (ATX).



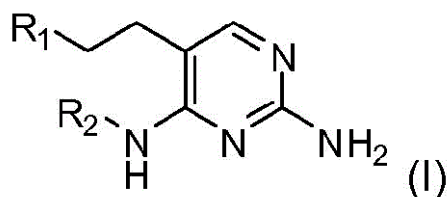
21: 2015/00921. 22: 2015/02/09. 43: 2021/08/11

51: A61K; A61P; C07D

71: Janssen Sciences Ireland UC
 72: MC GOWAN, David Craig, JONCKERS, Tim
 Hugo Maria, RABOISSON, Pierre Jean-Marie
 Bernard
 33: EP(IE) 31: 12180167.4 32: 2012-08-10
**54: ALKYL PYRIMIDINE DERIVATIVES FOR THE
 TREATMENT OF VIRAL INFECTIONS AND
 FURTHER DISEASES**

00: -

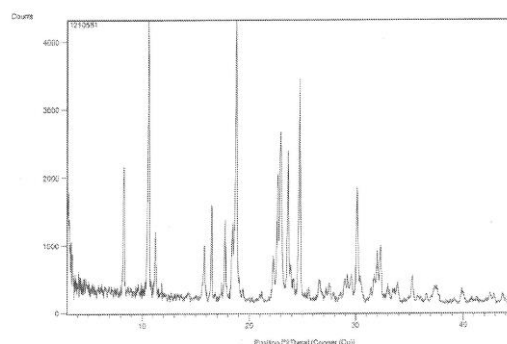
This invention relates to alkylpyrimidine derivatives of formula (I), processes for their preparation, pharmaceutical compositions, and their use in therapy for the treatment of viral infections.



21: 2015/01795. 22: 2015/03/16. 43: 2021/08/16
 51: A61K; A61P; C07D
 71: Madrigal Pharmaceuticals, Inc., F.Hoffmann-La Roche Ltd.
 72: HESTER, D. Keith, DUGUID, Robert J., KELLY, Martha, CHASNOFF, Anna, DONG, Gang, CROW, Edwin L., TAUB, Rebecca, REYNOLDS, Charles H., CHOI, Duk Soon, SHU, Lianhe, WANG, Ping
 33: US 31: 61/702,137 32: 2012-09-17
**54: METHOD OF SYNTHESIZING THYROID
 HORMONE ANALOGS AND POLYMORPHS
 THEREOF**

00: -

The disclosure describes methods of synthesis of pyridazinone compounds as thyroid hormone analogs and their prodrugs. Preferred methods according to the disclosure allow for large-scale preparation of pyridazinone compounds having high purity. In some embodiments, preferred methods according to the disclosure also allow for the preparation of pyridazinone compounds in better yield than previously used methods for preparing such compounds. Also disclosed are morphic forms of a pyridazinone compound. Further disclosed is a method for treating resistance to thyroid hormone in a subject having at least one TRP mutation.



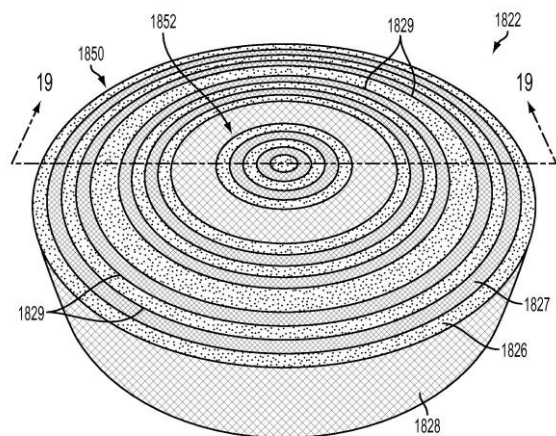
21: 2015/04515. 22: 2015/06/23. 43: 2021/08/04
 51: A23L; C01D
 71: Smart Salt Inc.
 72: MÄKI, Juhani
 33: FI 31: 20126279 32: 2012-12-07
**54: METHOD FOR MAKING MINERAL SALT AND
 MINERAL SALT PRODUCT**
 00: -

A method for making a chloride based mineral food salt that contains sodium, potassium and magnesium comprises combining a carnallite-containing concentrated solution and a potassium chloride in an amount that corresponds to the desired potassium content in the final product. Sodium chloride is added a calculated amount to the formed salt mass for absorbing water, and the product is dried.



21: 2015/06029. 22: 2015/08/20. 43: 2021/08/11
 51: B42D; E21B
 71: Baker Hughes Incorporated
 72: SCOTT, Danny E., DOSTER, Michael L., DIGIOVANNI, Anthony A.
 33: US 31: 61/771,404 32: 2013-03-01
**54: POLYCRYSTALLINE COMPACT TABLES FOR
 CUTTING ELEMENTS AND METHODS OF
 FABRICATION**
 00: -

Polycrystalline compact tables for cutting elements include regions of grains of super hard material. One region of grains ("first grains") and another region of grains ("second grains") have different properties, such as different average grain sizes, different super hard material volume densities, or both. The region of first grains and the region of second grains adjoin one another at grain interfaces that may include a curved portion in a vertical cross-section of the table. In some embodiments, discrete regions of the first grains may be vertically disposed between discrete regions of the second grains. As such, the tables have ordered grain regions of different properties that may inhibit delamination and crack propagation through the table when used in conjunction with a cutting element. Methods of forming the tables include forming the regions and subjecting the grains to a high-pressure, high-temperature process to sinter the grains.



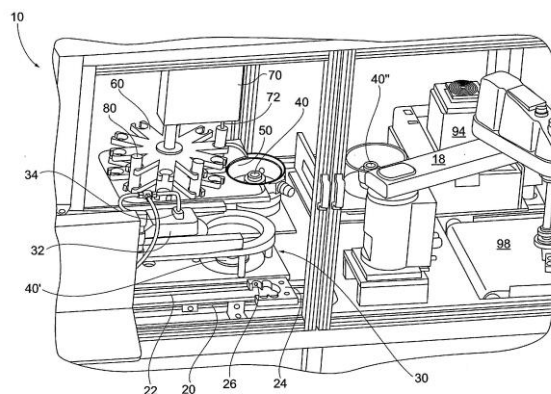
21: 2016/02064. 22: 2016/03/29. 43: 2021/08/03
 51: B29D
 71: Transitions Optical, Inc.
 72: KOENIG, Jerry L. II, BEAMER, Willard, PACE, Lex Eric
 33: US 31: 61/890,045 32: 2013-10-11
 33: US 31: 61/890,055 32: 2013-10-11
 33: US 31: 61/890,059 32: 2013-10-11

54: SPIN COATER FOR APPLYING MULTIPLE COATINGS TO AN OPTICAL SUBSTRATE

00: -

A spin coater that can be used to apply multiple coating compositions over an optical substrate, is described. The spin coater includes, a coater bowl configured to collect excess coating material expelled from an optical substrate being coated, a

rotatable chuck configured to receive and rotate the optical substrate in the bowl during coating, a plurality of coating reservoirs, each containing a coating material, and an indexable coating reservoir platform containing the plurality of reservoirs and configured to index a selected reservoir into a dispensing position above the coater bowl. The spin coater can include or have associated therewith at least one curing station, in which each curing station is independently configured to cure at least partially at least one applied coating material. Each curing station can include at least one of, a thermal curing station, a UV curing station, and/or an IR curing station.



21: 2016/02203. 22: 2016/04/04. 43: 2021/08/03
 51: C08K; C09C
 71: PPG Industries Ohio, Inc.
 72: EDELMAN, Clint Steven, KOLLAH, Raphael, MARTIN, Justin Jonathan, OKEL, Tim Allen, SMITH, Brittany, VOTRUBA-DRZAL, Peter Lawrence, WILT, Truman
 33: US 31: 61/887,713 32: 2013-10-07
54: TREATED FILLERS, COMPOSITIONS CONTAINING SAME, AND ARTICLES PREPARED THEREFROM
 00: -

The present invention includes a process for producing treated filler that includes (a) treating a slurry that includes untreated filler where the untreated filler has not been previously dried, with a treating composition that includes a treating agent, thereby forming a treated filler slurry, and (b) drying the treated filler slurry to produce treated filler. The treating agent can include an amino acid or polypeptide. The present invention also is directed to treated filler prepared by the process, as well as

rubber compounding compositions and tires including the treated filler.

21: 2016/05946. 22: 2016/08/26. 43: 2021/08/27
51: A61K: C07D: A61P

71: VYOME THERAPEUTICS LIMITED

72: SENGUPTA, SHILADITYA, CHAWRAI,
SURESH RAMESHLAL, GHOSH, SHAMIK,
GHOSH, SUMANA, JAIN, NILU, SADHASIVAM,
SURESH, BUCHTA, RICHARD,
BHATTACHARYYA, ANAMIKA

33: IN 31: 3247/DEL/2014 32: 2014-11-10

33: IN 31: 269/DEL/2014 32: 2014-01-29

54: TREATMENTS FOR RESISTANT ACNE

00: -

The present disclosure relates generally to novel molecules, compositions, and formulations for treatment of bacterial infections in general and more specifically to bacterial infections with antibiotic resistant pathogens

21: 2016/06686. 22: 2016/09/27. 43: 2017/08/30
51: A47C

71: CASPER SLEEP INC.

72: KRIM, Philip, PARIKH, Neil, CHAPIN, Jeff

33: US 31: 61/982235 32: 2014-04-21

54: IMPROVED MATTRESS

00: -

A foam mattress in which a layer of latex or latex-like foam placed above a layer of memory foam is described. This construction of the mattress provides the contouring pressure relief that a visco-elastic foam provides with a top surface with quick recovery (a latex-like "bounce") that prevents people from getting "stuck" in the visco-elastic foam and improves the springiness of the mattress. The mattress may also include straps and cinches to aid in transportation of the mattress. The mattress may also include removable covers that aid in keeping the mattress clean.

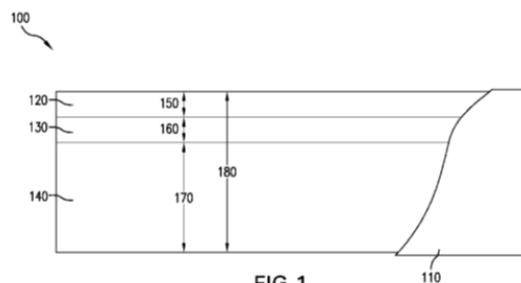


FIG. 1

21: 2017/01557. 22: 2017/03/02. 43: 2018/03/15
51: F03B

71: WANNI, Amar S

72: WANNI, Amar S

33: US 31: 62/034.241 32: 2014-08-07

33: US 31: 62/155,831 32: 2015-05-01

54: WAVE ENERGY CONVERTER

00: -

A wave energy converter located on the seabed extracts the potential energy in a wave transiting over the wave energy converter. The converter includes a vessel arranged so that its longitudinal axis is located near seabed so that an upstream opening near one end sits below the crest of the wave when and a downstream opening near the other end sits below the trough of the wave. Repetitive waves flowing over the converter cause a cyclic difference in the weight of the water above the openings. This cyclic weight differential in turn creates a horizontal cyclic force acting on the piston, which in turn acts on a hydraulic cylinder to create a high-pressure hydraulic fluid. A vertical embodiment operating on similar principles is also disclosed.

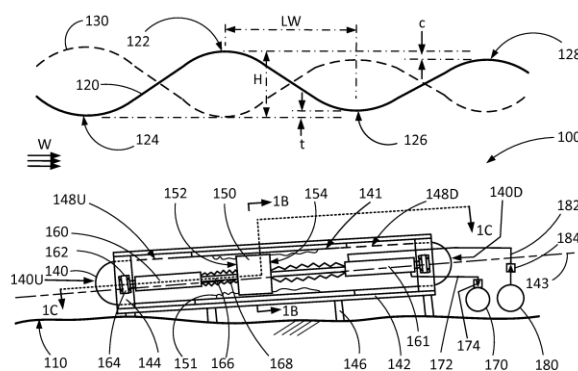


FIG.1A

21: 2017/01844. 22: 2017/03/15. 43: 2021/08/03
51: C07K; C12N; C12P

71: Chugai Seiyaku Kabushiki Kaisha

72: IGAWA, Tomoyuki, MUTO, Atsushi, KITAZAWA, Takehisa, SUZUKI, Tsukasa

33: JP 31: 2014-197207 32: 2014-09-26

**54: ANTIBODY CAPABLE OF NEUTRALIZING
SUBSTANCE HAVING ACTIVITY ALTERNATIVE
TO FUNCTION OF COAGULATION FACTOR VIII
(FVIII)**

00: -

It is tried to produce an antibody capable of neutralizing the activity of a substance having an

activity alternative to the function of FVIII, for the purpose of using the antibody in a method for measuring the reactivity of FVIII in the presence of the substance having the activity alternative to the function of FVIII. As the result, it is found that, when the produced antibody is used, the activity of FVIII in plasma from a hemophilia A patient can be evaluated accurately in an APTT-based one-stage clotting assay. It is also found that, when the produced antibody is used, the titer of an FVIII inhibitor in plasma from an FVIII inhibitor-carrying hemophilia A patient can be evaluated accurately in an APTT-based Bethesda assay.

21: 2017/02372. 22: 2017/04/04. 43: 2021/08/03
51: B01J

71: Neo Performance Materials (Singapore), Pte. Ltd.

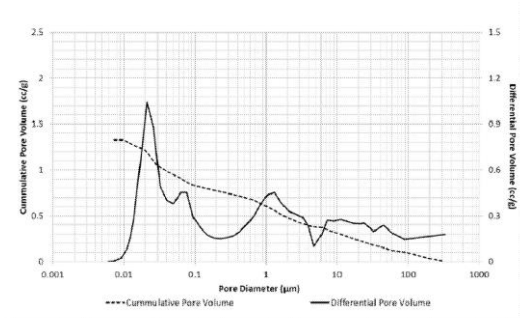
72: PSARAS, Dimitrios, NG, Szu Hwee, HAPPY, TIO, Shaun Pei Xiong

33: US 31: 62/046,491 32: 2014-09-05

54: HIGH POROSITY CERIUM AND ZIRCONIUM CONTAINING OXIDE

00: -

This disclosure generally relates to an oxide composition basically composed of cerium and zirconium that has exceptional and stable porosity, surface area and lattice oxygen mobility. The oxide composition can contain one or more other rare earth oxides other than cerium oxide. For example, some compositions can contain one or more of lanthanum oxide, yttrium oxide and neodymium oxide. The oxide composition can be useful as a catalyst, catalyst support, sensor applications and combinations thereof.



21: 2017/02477. 22: 2017/04/07. 43: 2021/08/03
51: G01N

71: Industrial Tomography Systems Plc

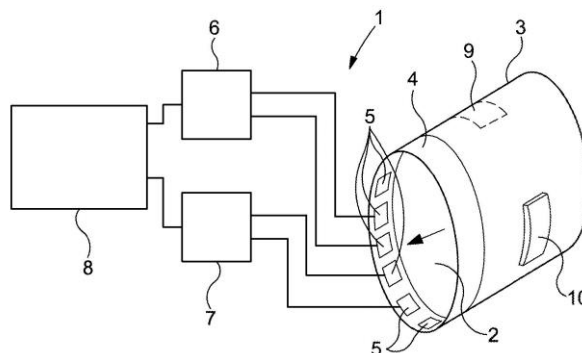
72: QIU, Changhua, PRIMROSE, Kenneth

33: GB 31: 1416182.2 32: 2014-09-12

54: DENSITY MEASUREMENT SYSTEM AND METHOD

00: -

A density measurement system for measuring the density of a material within a region, the density measurement system comprises: a plurality of electrodes arranged around the region; an energisation source arranged to apply an electrical signal to at least one of said electrodes; a monitor arranged to monitor an electrical parameter at at least one of said electrodes, the monitored electrical parameter being caused to change in response to flow of electrical current within the region; and a processor arranged to: generate data indicative of the complex impedance of the material within the region based upon the monitored electrical parameter; and generate data indicative of the density of the material based upon the data indicative of the complex impedance of the material.



21: 2017/02625. 22: 2017/04/12. 43: 2021/08/03
51: F04D

71: Weir Minerals Australia Ltd

72: WALKER, Craig Ian

33: AU 31: 2014903675 32: 2014-09-15

33: AU 31: 2014903676 32: 2014-09-15

54: SLURRY PUMP IMPELLER

00: -

An impeller which can be rotated about a rotation axis X-X, the impeller comprising a shroud having opposed inner and outer faces and an outer peripheral edge portion remote from the rotation axis, a plurality of pumping vanes projecting from the inner face of the shroud, a plurality of auxiliary vanes projecting from the outer face of the shroud, one or more of the auxiliary vanes having an inner edge which is closer to the rotation axis and an outer edge

which is closer to the peripheral edge portion of the shroud, the auxiliary vanes extending in a direction between the rotation axis towards the outer peripheral edge portion of the shroud, one or more of the auxiliary vanes having a leading side and a trailing side each of which extends from the inner edge to the outer edge with an upper side spaced from the outer face of the shroud, and at least one projection extending from the trailing side of one or more of the said auxiliary vanes, and preferably each auxiliary vane.

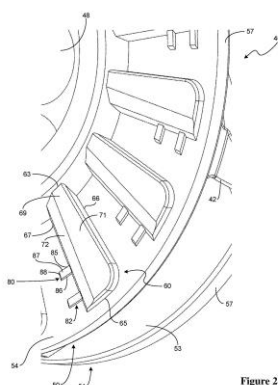


Figure 2

21: 2017/02937. 22: 2017/04/26. 43: 2021/08/03

51: A01N; A23B

71: Arysta Lifescience Benelux Sprl

72: PIROTTE, Alan

33: EP(BE) 31: 14189561.5 32: 2014-10-20

54: METHOD FOR ANTI-SPROUTING TUBER TREATMENT WITH REDUCED AMOUNT OF CIPC

00: -

The current invention concerns a method for the anti-sprouting treatment of tubers, especially potatoes, by applying a composition comprising limonene and a composition comprising CIPC, preferably via fogging. The invention also concerns the use of limonene as replacement of CIPC in the anti-sprouting treatment of tubers. The invention provides limonene compositions suitable for application by fogging. Furthermore, the invention concerns tubers obtainable by any of these methods.

21: 2017/03270. 22: 2017/05/11. 43: 2021/08/16

51: C04B

71: Diamond Innovations, Inc.

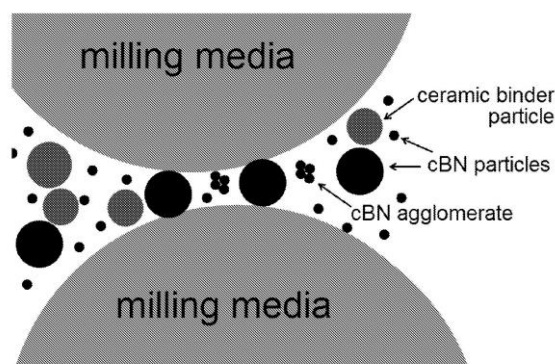
72: PALMER, Jacob, DUES, Lawrence, SHAO, Rui, WEINL, Gerold

33: US 31: 62/081,850 32: 2014-11-19

54: METHOD OF PREPARING A MULTIMODAL CUBIC BORON NITRIDE POWDER

00: -

Multi-step milling processes to prepare cBN composite powder forms a first powder mixture by adding a binder and a first cBN component, mills the first powder mixture for a first time period, combines a second cBN component with the milled first powder mixture to form a second powder mixture, and mills the second powder mixture for a second time period (less than the first time period) to form the cBN composite powder. A ratio of the D50 value of the second cBN component to the D50 value of the first cBN component is at least 3.0. Two-step milling with different milling times for the two cBN component fractions controls the amount of mill debris in the cBN composite powder mixture. Further processing of the cBN composite powder under HPHT conditions forms a cBN-based ceramic with an average value of a cBN particle free diameter of less than 2.0 microns.



21: 2017/03779. 22: 2017/06/01. 43: 2021/08/03

51: A61K; A61P

71: UCL BUSINESS PLC

72: JALAN, RAJIV, MOOKERJEE, RAJESHWAR PROSAD, ROMBOUTS, KRISTA, ANDREOLA, FAUSTO, DE CHIARA, FRANCESCO, THOMSEN, KAREN LOUISE

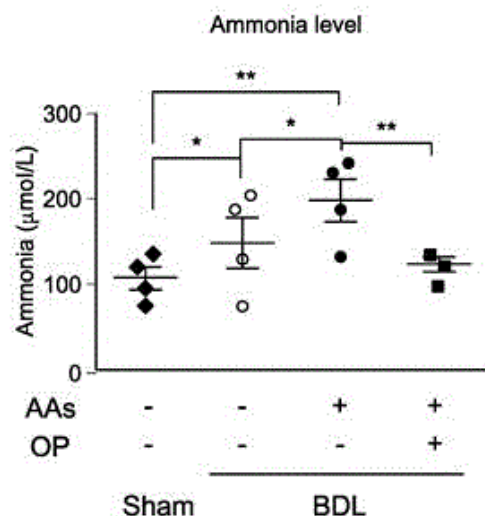
33: US 31: 62/083,814 32: 2014-11-24

54: TREATMENT OF DISEASES ASSOCIATED WITH HEPATIC STELLATE CELL ACTIVATION USING AMMONIA-LOWERING THERAPIES

00: -

Disclosed herein are methods of preventing, treating, and delaying the onset or progression of diseases associated with hepatic stellate cells (HSCs), such as non-alcoholic fatty liver disease

(NAFLD), fibrosis, and liver cancer, using ammonia-lowering therapies.



21: 2017/03881. 22: 2017/06/06. 43: 2021/08/03
51: A61K

71: THE BOARD OF REGENTS OF THE
UNIVERSITY OF OKLAHOMA

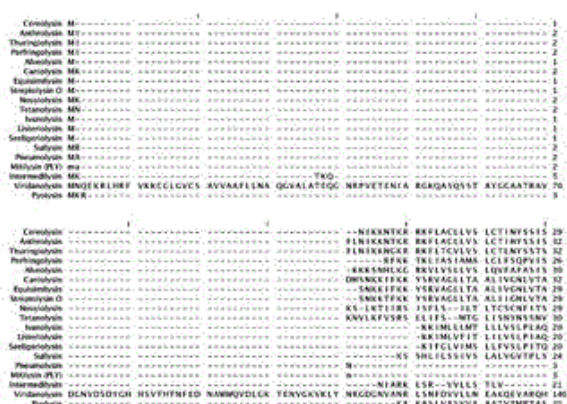
72: TWETEN, RODNEY K

33: US 31: 62/082,848 32: 2014-11-21

54: PNEUMOLYSIN MUTANTS AND METHODS OF USE THEREOF

00: -

The present disclosure provides, in various embodiments, immunogenic mutants of cholesterol-dependent cytolysins, such as pneumolysin, which have reduced hemolytic activity and reduced pore-forming activity in comparison to their wild type protein. The present disclosure also provides, in various embodiments, nucleic acids which encode such mutants, and methods of the use of such mutants.



21: 2017/04063, 22: 2017/06/13, 43: 2021/08/03

51: C07D: A61K: A61P

71: MEIJI SEIKA PHARMA CO., LTD.

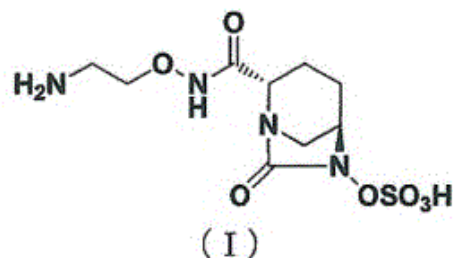
72: OGAWA, TAKAYA, YOKOYAMA, TAKUYA,
FURUYAMA, SHUSUKE, ICHIKI, MASATO,
FUSHIHARA, KENICHI

33: JP 31: 2014-246425 32: 2014-12-05

54: PRODUCTION PROCESS OF CRYSTALS OF DIAZABICYCLOOCTANE DERIVATIVE AND STABLE LYOPHILIZED PREPARATION

00: -

The objects of the present invention are to provide a process for producing crystals of compound (I) easily in an industrial scale, and a stable lyophilized composition of compound (I). It has been found that subjecting an aqueous solution containing compound (I) and an inorganic salt such as sodium chloride to lyophilization yields a lyophilized composition having good storage stability wherein the compound (I) is crystalline, and further that crystals of compound (I) can be obtained from said aqueous solution without lyophilization.



21: 2017/04192. 22: 2017/06/19. 43: 2021/07/22

51: A61K

71: GILEAD APOLLO, LLC.

72: HARRIMAN, GERALDINE C., HARWOOD, JAMES, GREENWOOD, JEREMY ROBERT, MASSE, CRAIG E., BHAT, SATHESH

33: US 31: 61/559,023 32: 2011-11-11

33: US 31: 61/615,092 32: 2012-03-23

33: US 31: 61/651,878 32: 2012-05-25

33: US 31: 61/675,513 32: 2012-07-25

54: ACC INHIBITORS AND USES THEREOF

00: -

The present invention provides compounds useful as inhibitors of Acetyl CoA Carboxylase (ACC), compositions thereof, and methods of using the same.

21: 2017/04200. 22: 2017/06/20. 43: 2021/08/03

51: C07D; C07H

71: BIOSEARCH TECHNOLOGIES, INC.

72: SANCHEZ, ANTHONY DE JESUS

33: US 31: 62/125,431 32: 2015-01-20

54: COUMARIN-BASED COMPOUNDS AND RELATED METHODS

00: -

The present invention generally relates to coumarin-based compounds that can be used for the labeling of biological molecules, as well as related synthetic and testing methods. The coumarin-based compounds typically survive conditions necessary for automated synthesis of nucleic acids without undergoing any substantial degree of degradation or alteration.

21: 2017/04923. 22: 2017/07/19. 43: 2021/08/03

51: E21B

71: LONGYEAR TM, INC.

72: PEARCE, CODY A, RUPP, MICHAEL D, LAMBERT, CHRISTIAN M

33: US 31: 62/102,240 32: 2015-01-12

33: US 31: 62/102,221 32: 2015-01-12

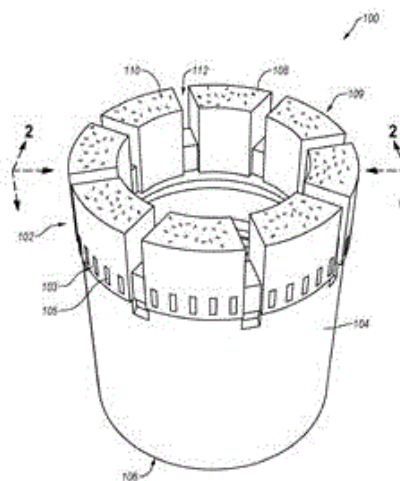
33: US 31: 62/115,930 32: 2015-02-13

54: DRILLING TOOLS HAVING MATRICES WITH CARBIDE-FORMING ALLOYS, AND METHODS OF MAKING AND USING SAME

00: -

Drilling tools, such as drill bits, having a shank, a crown, and a plurality of abrasive cutting elements. In the case of impregnated drilling tools, the abrasive cutting elements are dispersed throughout at least a portion of the crown. In the case of surface-set drilling tools, the abrasive cutting media is secured to and projects from a cutting face of the crown. The matrix of the crown of the drilling tools includes a

carbide-forming alloy that forms a direct carbide bond with at least one cutting element of the plurality of abrasive cutting elements.



21: 2017/06875. 22: 2017/10/11. 43: 2021/07/06

51: A61K; C07K; C40B

71: Subdomain, LLC, Arcellx, Inc

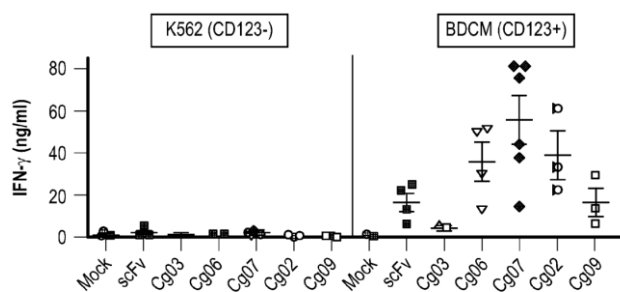
72: LAFLEUR, David, William, HILBERT, David, M

33: US 31: 62/143,772 32: 2015-04-06

54: DE NOVO BINDING DOMAIN CONTAINING POLYPEPTIDES AND USES THEREOF

00: -

Provided herein are de novo binding domain containing polypeptides (DBDpp) that specifically bind a target of interest. Nucleic acids encoding the DBDpp, and vectors and host cells containing the nucleic acids are also provided. Libraries of DBDpp, methods of producing and screening such libraries and the DBDpp identified from such libraries and screens are also encompassed. Methods of making and using the DBDpp are additionally provided. Such uses include, without limitation, affinity purification, and diagnostic and therapeutic applications.



21: 2018/00191. 22: 2018/01/10. 43: 2021/08/16

51: G01N; A61K

71: THE JOHNS HOPKINS UNIVERSITY

72: TAO, DINGYIN, MCGILL, BRENTON, DINGLASAN, RHOEL R

33: US 31: 62/180,705 32: 2015-06-17

54: COMPOSITIONS AND METHODS FOR DETECTION OF MALARIA PARASITE BIOMARKERS

00: -

The present invention relates to the field of malaria. More specifically, the present invention provides methods and compositions useful for rapidly testing for malaria infection. In one embodiment, a method for identifying the malaria parasite Plasmodium in a human subject comprises the steps of (a) incubating a saliva sample obtained from the subject with an antibody that specifically binds PSSP17, wherein the presence of PSSP17 creates one or more antibody:PSSP17 complexes; (b) applying a detection agent that detects the antibody-PSSP17 complexes; and (c) identifying the subject as having the malaria parasite Plasmodium where the antibody-PSSP17 complexes are detected.

21: 2018/01823. 22: 2018/03/19. 43: 2021/10/08

51: B65D

71: MAUSER-WERKE GMBH

72: WEYRAUCH, Detlev, WAHMES, Lukas

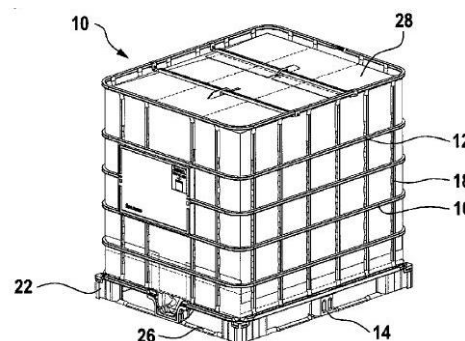
33: DE 31: 10 2015 012 163.4 32: 2015-09-23

54: PALLET CONTAINER

00: -

The invention relates to a pallet container (10) with a composite base pallet (14) for storing and for transporting in particular combustible or highly flammable fluid filling goods, comprising a thin-walled, rigid inner container made from thermoplastic material, a tube grid frame (12), tightly surrounding the plastic inner container as a supporting jacket, and a base pallet (14) on which the plastic container rests and to which the tube grid

frame (12) is securely connected, wherein the plastic inner container is surrounded on all sides by a fire protection insulating mat (28), wherein the composite base pallet (14) is equipped with a heat-resistant support element (30) in each plastic corner foot (22) to retain the stability of the composite base pallet in the case of prolonged heat exposure.



21: 2018/02231. 22: 2018/04/05. 43: 2021/08/03

51: B01D; B03C; B03D

71: CiDRA Corporate Services LLC

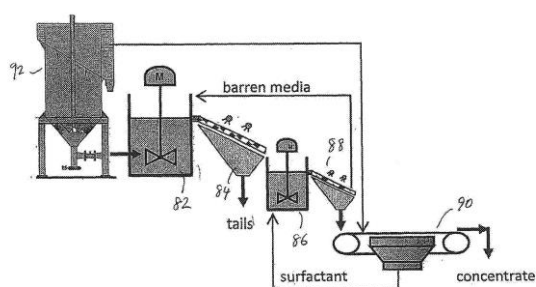
72: ROTHMAN, Paul J., FERNALD, Mark R., AMELUNXEN, Peter A.

33: US 31: 62/242,545 32: 2015-10-16

54: MINERAL BENEFICIATION UTILIZING ENGINEERED MATERIALS FOR MINERAL SEPARATION AND COARSE PARTICLE RECOVERY

00: -

A selective recirculation circuit has a loading stage, a stripping stage and a filtering stage for use in processing a feed stream or slurry containing mineral particles. The stripping stage forms a first loop with the loading stage, and a second loop with the filtering stage. The loading stage has a loading mixer and a loading washing screen. The stripping stage has a stripping mixer and a stripping washing screen. The loading mixer receives the slurry and causes barren media in the circuit to contact with the slurry so that the mineral particles in the slurry are loaded onto the barren media. The media is directed to the stripping stage where the mineral particles are removed from the media. The barren media is recycled to the loading stage. The stripping solution recovered from the filtering stage is returned to the stripping stage and the mineral particles are discharged as concentrate.



21: 2018/02448. 22: 2018/04/13. 43: 2021/08/03
 51: A61K; A61P
 71: Janssen Pharmaceutica NV
 72: ROTHENBERG, Paul, POLIDORI, David C.,
 WAYS, Douglas K., STEIN, Peter P., ROSENTHAL,
 Norman R.
 33: US 31: 62/218,842 32: 2015-09-15
**54: CO-THERAPY COMPRISING
 CANAGLIFLOZIN AND PHENTERMINE FOR THE
 TREATMENT OF OBESITY AND OBESITY
 RELATED DISORDERS**

00: -

The present invention is directed to the use of co-therapy comprising administration of canagliflozin and phentermine for the treatment of obesity and obesity related disorders. More particularly, the present invention is directed to co-therapy for treating obesity, for promoting weight loss and/or for suppressing appetite; for treating, delaying, slowing the progression of and/or preventing metabolic disorders (including for example Type 2 diabetes mellitus); for treating, delaying, slowing the progression of and/or preventing renal or fatty liver disorders (including for example NASH, NAFLD, etc.); for treating, delaying, slowing the progression of and/or preventing sleep disorders (including for example sleep apnea); for providing cardiovascular protection; for treating, delaying, slowing the progression of and/or preventing cardiovascular events (including major adverse cardiac events (MACE) such as myocardial infarction, unstable angina, cardiovascular death, revascularization, fatal or non-fatal cerebrovascular accident, peripheral arteriopathy, aortic events, hospitalization due to congestive heart failure, etc.); and/or for extending or prolonging life span.

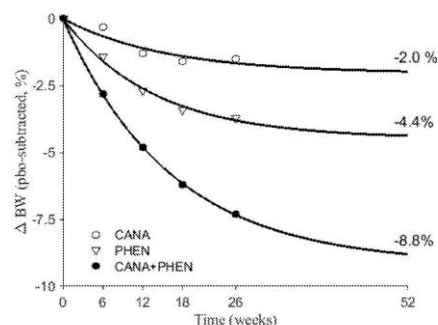


Figure 1: Mean placebo-subtracted weight loss (measured at 0-26 Weeks, extrapolated to 52 Weeks) for Canagliflozin, Phentermine and Combiantion Therapy

21: 2018/02607. 22: 2018/04/19. 43: 2021/08/03
 51: A61K
 71: Colgate-Palmolive Company
 72: SHI, Manying, XU, Yun, LU, Xiaojing, WU, Yuan
**54: SODIUM ZINC ALGINATE STRUCTURANT
 AND METHODS FOR MAKING AND USING SAME**
 00: -

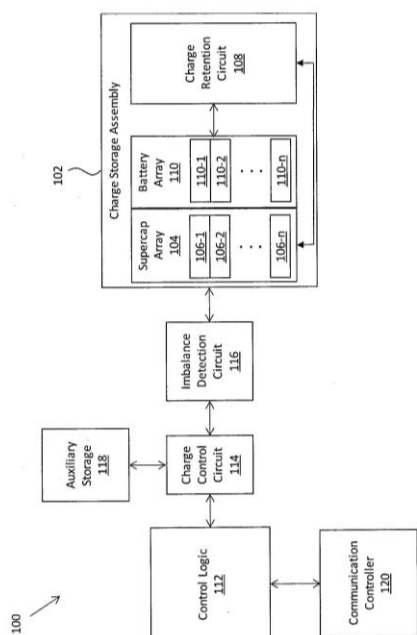
Disclosed is a method of making a sodium zinc alginate structurant that can include combining a sodium alginate, a zinc compound, and a liquid media, and mixing to a desired viscosity. Further disclosed is a method of making an oral care composition that can include combining a sodium zinc alginate structurant with one or more agents, and mixing.

21: 2018/02616. 22: 2018/04/19. 43: 2021/08/04
 51: H01M; H02J
 71: Kilowatt Labs, Inc.
 72: QURESHI, Waseem Ashraf
 33: US 31: 62/394,532 32: 2016-09-14
**54: SUPERCAPACITOR BASED ENERGY
 STORAGE DEVICE**

00: -

An energy storage device includes a charge storage assembly, an auxiliary storage element, and a charge control circuit. The charge storage assembly includes an array of supercapacitors coupled in series, a plurality of batteries, and a charge retention circuit. Each of the plurality of batteries is electrically coupled to a corresponding supercapacitor in the array of supercapacitors. The charge retention circuit is configured to maintain a charge state of at least one supercapacitor in the array of supercapacitors when the at least one supercapacitor is in an idle state. A charge control circuit is configured to selectively transfer charge between the at least one

supercapacitor in the array of supercapacitors and the auxiliary storage element.

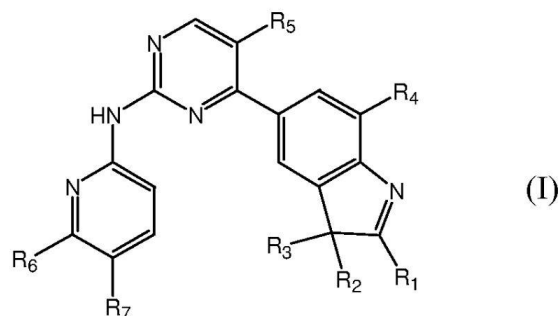


21: 2018/02845. 22: 2018/04/30. 43: 2021/08/03
 51: A61K; A61P; C07D
 71: Esteve Pharmaceuticals, S.A.
 72: VIRGILI-BERNADO, Marina, ALMANSA-ROSALES, Carmen, ALEGRET-MOLINA, Carlos
 33: EP(ES) 31: 15382566.6 32: 2015-11-16
54: OXADIAZASPIRO COMPOUNDS FOR THE TREATMENT OF DRUG ABUSE AND ADDICTION
 00: -

The present invention relates to compounds having pharmacological activity towards the sigma (s) receptor, and more particularly to oxadiazaspiro compounds having this pharmacological activity, to processes of preparation of such compounds, to pharmaceutical compositions comprising them, and to their use in therapy, in particular against drug abuse and addiction.

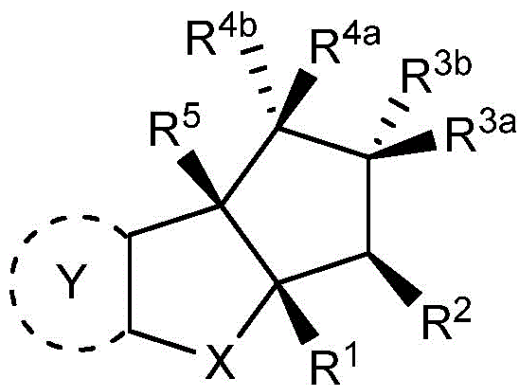
21: 2018/03531. 22: 2018/05/28. 43: 2021/08/16
 51: A61K; C07D; A61P
 71: GANANDLEE PHARMACEUTICALS
 72: YIN, Lei, LIU, Wenjian, LI, Heng, ZHU, Dianxi
 33: CN 31: 201510856641.1 32: 2015-11-30
54: PROTEIN KINASE INHIBITOR, PREPARATION METHOD AND MEDICAL USE THEREOF
 00: -

The present invention provides compounds as shown in formula I or a tautomer, a mesomer, a racemate, an enantiomer, a diastereomer, a deuterated compound, a prodrug or a mixture thereof, or a pharmaceutically acceptable salt or solvate of the compounds as shown in formula I or a tautomer, a mesomer, a racemate, an enantiomer, a diastereomer, a deuterated compound, a prodrug or a mixture thereof, wherein R₁ to R₇ are as defined in the description. The present invention also provides a preparation method and a medical use of the compounds. The compounds of the present invention have an activity superior or equivalent to the candidate drug LY2835219 currently under phase III clinical trial, and some of the compounds exhibit better selectivity. Moreover, the preferred compounds exhibit good absorption and good blood-brain distribution when administered orally. The compounds of the present invention thus show promise for development into novel drugs for the treatment of diseases associated with cell proliferation, particularly brain tumors, providing new options for clinicians and patients.



21: 2018/04070. 22: 2018/06/18. 43: 2021/08/03
 51: A61K
 71: eFFECTOR Therapeutics, Inc.
 72: ERNST, Justin T., REICH, Siegfried H., SPRENGELER, Paul A., TRAN, Chinh, PACKARD, Garrick Kenneth, XIANG, Alan Xin, NILEWSKI, Christian, MICHELS, Theodore
 33: US 31: 62/259,828 32: 2015-11-25
54: EIF4-A-INHIBITING COMPOUNDS AND METHODS RELATED THERETO
 00: -

The present invention provides synthesis, pharmaceutically acceptable formulations and uses of compounds in accordance with Formula I, or a stereoisomer, tautomer or pharmaceutically acceptable salt thereof. For Formula (I) compounds X, Y, R¹, R², R^{3a}, R^{3b}, R^{4a}, R^{4b} and R⁵ are as defined in the specification. The inventive Formula (I) compounds are inhibitors of eIF4A and find utility in any number of therapeutic applications, including but not limited to treatment of inflammation and various cancers.



(I)

21: 2018/04078. 22: 2018/06/18. 43: 2021/08/03
51: C01B; C01C

71: HALDOR TOPSØE A/S

72: DAHL, PER JUUL, SCHJØDT, NIELS
CHRISTIAN, KRØLL JENSEN, ANNETTE E

33: DK 31: PA 2016 70056 32: 2016-02-02

54: ATR BASED AMMONIA PROCESS AND PLANT

00: -

A process for producing an ammonia synthesis gas, said process comprising the steps of: - Reforming a hydrocarbon feed in a reforming step thereby obtaining a synthesis gas comprising CH₄, CO, CO₂, H₂ and H₂O - Shifting said synthesis gas in a high temperature shift step over a promoted zinc-aluminum oxide based high temperature shift catalyst, wherein The steam/carbon ratio in the reforming step is less than 2.6.



21: 2018/04229. 22: 2018/06/22. 43: 2021/08/03

51: C07D

71: THE REGENTS OF THE UNIVERSITY OF CALIFORNIA

72: VERKMAN, ALAN, LEVIN, MARC H, CIL,
ONUR, KURTH, MARK J

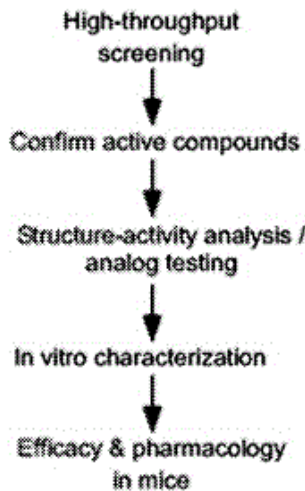
33: US 31: 62/387,579 32: 2015-12-24

33: US 31: 62/376,808 32: 2016-08-18

54: CFTR REGULATORS AND METHODS OF USE THEREOF

00: -

Provided herein are compounds that activate CFTR and methods for treating constipation, dry eye disorders, and other diseases and disorders.



21: 2018/04400. 22: 2018/06/29. 43: 2021/08/03

51: A01N; C05F; C12N

71: AMVAC CHEMICAL CORPORATION

72: YOON, SUNG-YONG H, SWORDS,
KATHLEEN, WAGNER, D RY, LIU, XING LIANG

33: US 31: 62/289,020 32: 2016-01-29

54: MICROBIAL CONSORTIA

00: -

Disclosed herein are microbial consortia and compositions including microbes for example for use in agricultural or biodegradation applications. In some embodiments, soil, plants, and/or plant parts

(such as seeds, seedlings, shoots, roots, leaves, fruit, stems, or branches) are contacted with a disclosed microbial consortia or composition including microbes. The microbial consortia or microbe-containing compositions may be applied to soil, plant, and/or plant parts alone or in combination with additional components (such as chitin, chitosan, glucosamine, amino acids, and/or liquid fertilizer). In additional embodiments, the disclosed microbial consortia or compositions including microbes are used in methods of degrading biological materials, such as chitin-containing biological materials.

21: 2018/04629. 22: 2018/07/11. 43: 2021/08/16
51: F02N

71: ROBERT BOSCH LIMITADA
72: JUNGE, THOMAS, SILVA, FILIPE,
MALICHESKI, THIAGO

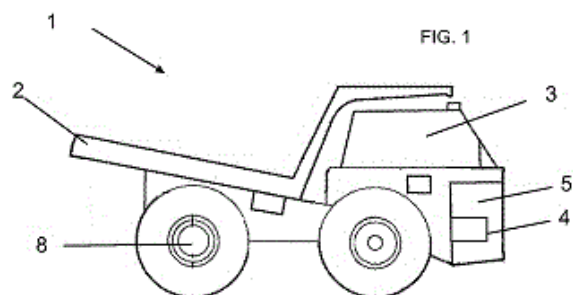
33: BR 31: BR1020150316500 32: 2015-12-17
**54: CONTROL PROCESS OF A START-STOP
DEVICE FOR A COMBUSTION ENGINE OF A
GENERATOR UNIT CARRIED ON AN ELECTRIC
DRIVE HEAVY-DUTY VEHICLE, AND START-
STOP DEVICES FOR SUCH COMBUSTION
ENGINE**

00: -

The present invention pertains to the technical sector of electric propelled heavy-duty vehicles and which embark a generator unit. The invention relates to a process for controlling start-stop device (10) for the combustion engine (4) of the generator unit (5), comprising the following steps, if the shutdown conditions of the combustion engine (4) are verified:

- interrupting the power bus (24) connecting the generator unit (5) to the electric drive (23);
- shutting down the combustion engine (4).

The present invention further relates to a start-stop device (10) for such combustion engine (4).



21: 2018/04630. 22: 2018/07/11. 43: 2021/08/03
51: F02N; B60L

71: ROBERT BOSCH LIMITADA

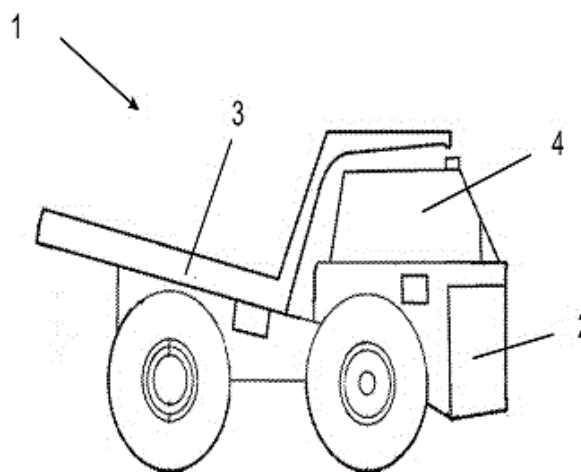
72: JUNGE, THOMAS, SILVA, FILIPE,
MALICHESKI, THIAGO

33: BR 31: BR1020150316429 32: 2015-12-17

**54: START-STOP DEVICE FOR A COMBUSTION
ENGINE, COMBUSTION ENGINE CONTROL
SYSTEM, AND CONTROL PROCESS OF SUCH
SYSTEM**

00: -

The present invention belongs to the technical sector of combustion engine management. The invention relates to a start-stop device (7) for such combustion engine (2), including:- a sensor-reading module (17) for reading redundant sensors related to start and stop conditions; - a network connection module (16) for connecting to a data bus (12) in which the data of said sensors related to the disconnection and starting conditions are available. The present invention further relates to a control system (5) of a combustion engine including such device and a control process of such system.



21: 2018/04851. 22: 2018/07/18. 43: 2021/08/03
51: E02D

71: TENSAR INTERNATIONAL CORPORATION
72: SMITH, AARON D, LUPTAK, STEPHEN A,
RIGGIO, JEREMIAH, WISSMANN, KORD J

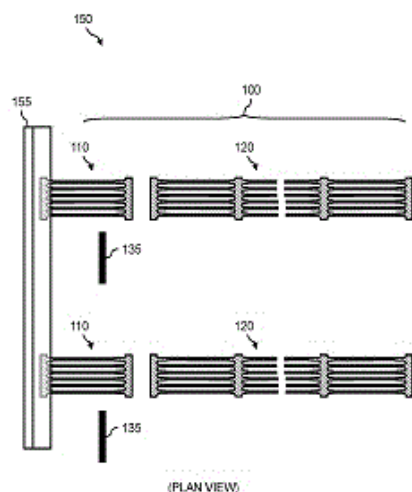
33: US 31: 62/290,258 32: 2016-02-02

**54: GEOSYNTHETIC REINFORCED WALL
PANELS COMPRISING SOIL REINFORCING
MEMBERS**

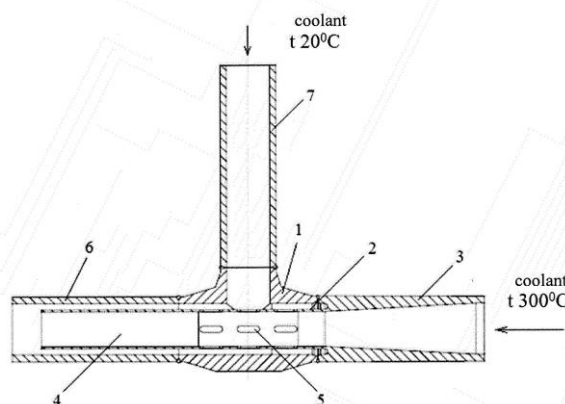
00: -

Geosynthetic reinforced wall panels including soil reinforcing members and retaining wall system

formed therewith are disclosed. The geosynthetic reinforced wall panels include any type of wall panels, such as a precast concrete wall panels, that are supported by an arrangement of soil reinforcing members. Various configurations of soil reinforcing members may include end tabs and/or inner tabs that have strips arranged therebetween. Examples of soil reinforcing members include, but are not limited to narrow-width single-section reinforcing members, narrow-width multi-section reinforcing members, and wide-width reinforcing members. Further, a retaining wall system is provided that includes any arrangement of the one or more geosynthetic reinforced wall panels.



address this problem in the flow mixing T-unit of reactor volume control system which includes a T-piece (1) connected with two ends to the bypass line carrying the coolant of one temperature, and with the additional opening to the makeup system pipeline carrying the coolant of a different temperature under emergency and an insert (2) which separates the coolant flows of different temperature, the insert is installed upstream the coolant flow in the bypass so that its outer part is located upstream the coolant inlet into the T-unit, and its inner part is cantilevered inside the T-unit and forms a tube with openings (5) in the area of the T-piece. The T-unit is provided with an adapter (6) mounted at its outlet and forming, together with the insert, a coaxial channel for coolant flow.



21: 2018/06206. 22: 2018/09/14. 43: 2021/08/03
51: B01F; F16L; G21C; G21D

71: Joint Stock Company Scientific Research and Design Institute for Energy Technologies ATOMPROEKT, Joint Stock Company «Science and Innovations»

72: BEZLEPKIN, Vladimir Viktorovich, KURCHEVSKIY, Alexey Ivanovich, MITRYUKHIN, Andrey Gennad'evich, KROPOTOV, Maksim Yur'evich, KUKHTEVICH, Vladimir Olegovich

54: FLOW MIXING T-UNIT OF REACTOR VOLUME CONTROL SYSTEM

00: -

The invention relates to water-cooled water-moderated power reactors (VVER), and, more particularly, to primary circuit auxiliary systems. The purpose of this invention is to provide integrity and normal operation of the T-unit, including cases when the unit operates under abnormal conditions. To

21: 2018/07352. 22: 2018/11/02. 43: 2021/08/24
51: B01J; C07C

71: EXXONMOBIL CHEMICAL PATENTS INC.

72: IDE, Matthew, S., LOVELESS, Brett, T., LEVIN, Doron, BEUTEL, Tilman, W.

33: US 31: 62/347,667 32: 2016-06-09

33: EP 31: 16181311.8 32: 2016-07-26

54: A PROCESS FOR PRODUCING MONO-ALKYLATED AROMATIC COMPOUND

00: -

The present disclosure relates to a process for producing a mono-alkylated aromatic compound using a treated catalyst made by a method of this invention is disclosed. The method comprises the steps of heating an untreated catalyst in the presence of a gaseous stream having a dew point temperature less than about 5°C to form a treated catalyst. The treatment is effective to improve the activity and selectivity of the catalyst.

21: 2018/08161. 22: 2018/12/03. 43: 2021/08/03
 51: A61K; A61P; C07D
 71: Universidad de La Habana, Centro de Investigación y Desarrollo de Medicamentos CIDEM
 72: OCHOA RODRÍGUEZ, Estael, VERDECIA REYES, Yamila, NÚÑEZ FIGUEREDO, Yanier, RAMÍREZ SÁNCHEZ, Jeney, WONG GUERRA, Maylin, FONSECA FONSECA, Luis Arturo, PARDO ANDREU, Gilberto Lázaro, CANAÁN-HADEN NAVARRO, Claudia Amanda, MONDELO RODRÍGUEZ, Abel, BÁRZAGA FERNÁNDEZ, Pedro Gilberto, GONZÁLEZ ALFONSO, Nicté, DELGADO HERNÁNDEZ, René, PADRÓN YAQUIS, Alejandro Saúl
 33: CU 31: 2016-0059 32: 2016-05-04

54: PHENOL COMPOUND AND COMBINATION OF SAME WITH A BENZODIAZEPINE FUSED TO 1,4-DIHYDROPYRIDINE FOR TREATING DISEASES OF THE CENTRAL NERVOUS AND VASCULAR SYSTEMS

00: -

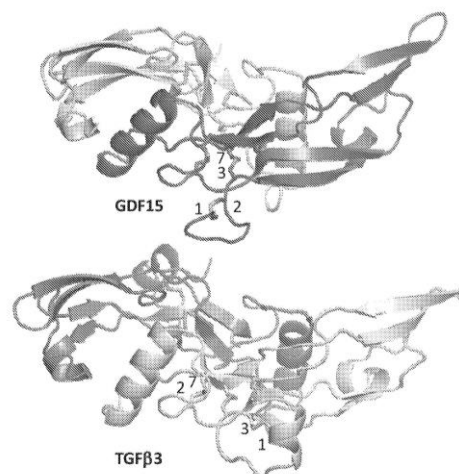
The present invention relates to chemistry, pharmaceuticals, and in particular to the production of formulations from derivatives of phenol compounds or polyphenol compounds and from derivatives of phenol compounds or polyphenol compounds combined with tricyclic systems of the type having benzodiazepines fused to derivatives of 1,4-dihydropyridines with action on the central nervous and vascular systems. These pharmaceutical compositions exhibit action that modulates the calcium channels and is GABAergic, antiglutamatergic, mitoprotective, antioxidant, antiinflammatory and antiapoptotic, said compositions being able to be used in the treatment of cardiovascular, cerebrovascular, neurodegenerative, neuropsychiatric and neurological disorders.

21: 2018/08284. 22: 2018/12/07. 43: 2021/08/03
 51: A61K; C07K
 71: Janssen Biotech, Inc.
 72: ARMSTRONG, Anthony, CONNOR, Judith Ann, FURMAN, Jennifer, HUANG, Chichi, HUNTER, Michael J., LIN-SCHMIDT, Xiefan, NELSON, Serena, RANGWALA, Shamina, MULLICAN, Shannon, CHAVEZ, Jose Antonio
 33: US 31: 62/333,886 32: 2016-05-10

54: GDF15 FUSION PROTEINS AND USES THEREOF

00: -

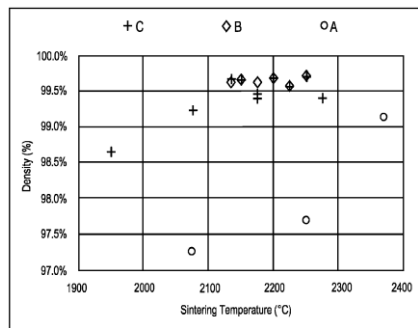
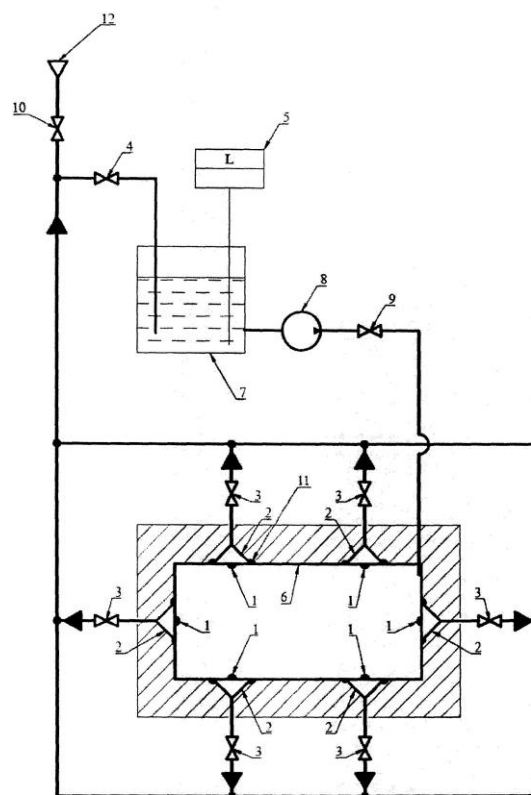
Fusion proteins containing a half-life extension protein, a linker, and a GDF15 protein are described. Also described are nucleic acids encoding the fusion proteins, recombinant cells thereof, compositions comprising the fusion proteins, and methods of using the fusion proteins for treating or preventing metabolic diseases, disorders or conditions.



21: 2018/08295. 22: 2018/12/07. 43: 2021/08/16
 51: C04B
 71: SMITH INTERNATIONAL, INC.
 72: BAO, Yahua
 33: US 31: 62/356,225 32: 2016-06-29
54: BINDERLESS CBN SINTERING WITH CUBIC PRESS

00: -

A method of sintering a binderless cBN body includes providing a boron nitride particle mixture into a pressure chamber, the boron nitride particle mixture having a first type of boron nitride particles and boron nitride filler particles, and the boron nitride filler particles having a different size and/or type than the first type of boron nitride particles, and sintering the boron nitride particle mixture in the pressure chamber to form the cBN body by generating a pressure in the pressure chamber of less than 7.7 GPa and heating the boron nitride particle mixture to a temperature ranging from about 1900 °C to about 2300 °C, wherein the cBN body has a density of at least 97 percent.



Фиг.

21: 2018/08636. 22: 2018/12/20. 43: 2021/08/03
51: G01M; G21F

71: Joint-Stock Company Scientific Research and Design Institute for Energy Technologies Atomproekt, Joint Stock Company "Science and Innovations" ("Science and Innovations", JSC)
72: ISAYEV, Serguey Ivanovich, NOVIKOV, Denis Sergueyevich

54: SYSTEM FOR MONITORING LEAKS OF LIQUID FROM A SPENT FUEL POOL

00: -

A system for detecting leaks of liquid from a spent fuel pool relates to the field of measuring and testing equipment and is intended for monitoring leaks in tanks, primarily in the storage pools of nuclear power plants. In the system for detecting leaks of liquid from a spent fuel pool, the weld seams of the storage pool are additionally provided with a hermetic metallic barrier connected by valved tubes to a pipeline, the two ends of which are connected via a collection valve and a return valve respectively to a leak collection tank equipped with a liquid level sensor. The system for detecting leaks of liquid from a spent fuel pool makes it possible to monitor the leak tightness of the weld seams of a spent fuel pool and to identify weld seams that have lost their leak tightness without first drying the storage pool, thus raising the radiation safety of storage pools and reducing their repair time.

21: 2019/00052. 22: 2019/01/04. 43: 2021/07/30
51: A61K A61P

71: SUPPORT-VENTURE GMBH

72: BAUSCH, Alexander

33: EP 31: 16173443.9 32: 2016-06-08

54: PHARMACEUTICAL COMBINATIONS FOR TREATING CANCER

00: -

The present invention relates to pharmaceutical combinations comprising a PPAR agonist and a P38 inhibitor for use in a method for the prevention, delay of progression or treatment of cancer.

21: 2019/00706. 22: 2019/02/04. 43: 2021/08/24
51: E21D

71: J_zLOK CO.

72: FAULKNER, Dakota, STANKUS, John, C., WHARTON, Richard, MA, Lumin

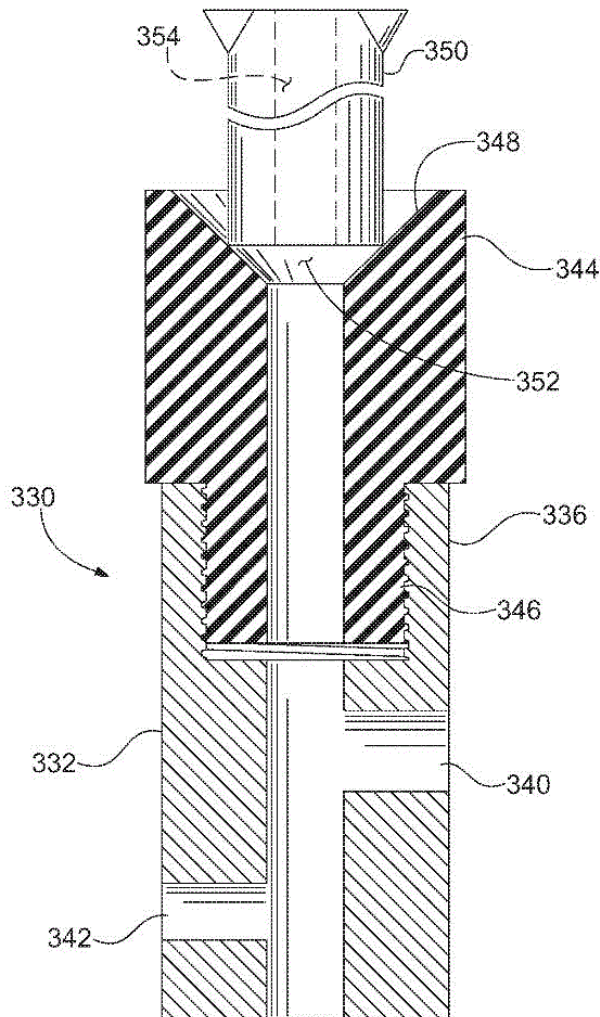
33: US 31: 62/382,981 32: 2016-09-02

33: US 31: 62/470,632 32: 2017-03-13

54: PUMPABLE RESIN SYSTEM

00: -

A rock bolt system includes a fitting having a main body defining a central opening configured to receive a rock bolt, with the main body defining a grout opening in fluid communication with the central opening, and a grout body defining a space between the main body and the grout body. The main body is rotatable relative to the grout body, with the grout body defining a resin port and a catalyst port. The resin port and the catalyst port are in fluid communication with the space and the grout opening of the main body. A rock bolt defines a central opening, with the central opening of the rock bolt configured to be in fluid communication with the central opening of the fitting when the rock bolt is secured to the fitting.



21: 2019/00828. 22: 2019/02/08. 43: 2021/03/08

51: G06F

71: ULTRAHAPTICS IP LIMITED

72: ULTRAHAPTICS IP LIMITED

33: US 31: 62/370,522 32: 2016-08-03

33: US 31: 62/370,865 32: 2016-08-04

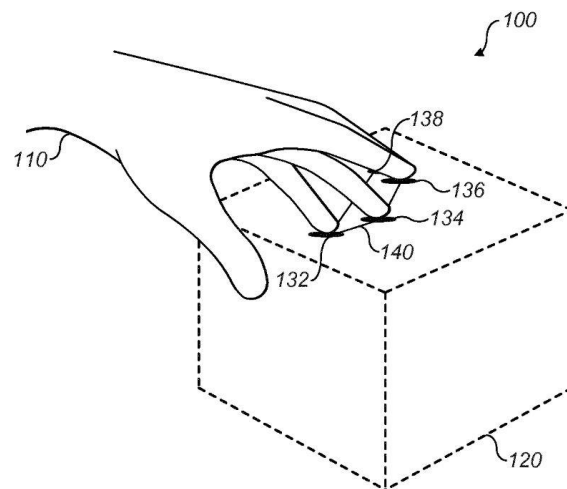
33: US 31: 62/370,786 32: 2016-08-04

33: US 31: 62/397,419 32: 2016-09-21

54: THREE-DIMENSIONAL PERCEPTIONS IN HAPTIC SYSTEMS

00: -

An acoustic field may be produced from a transducer array having known relative positions and orientations. In this acoustic field, one or more control points may be defined. An amplitude may be assigned to the control point. Mid-air haptic effect for a virtual object (120) on a human hand (110) may be generated by moving the control point in a single closed curve comprising a plurality of curve segments. The single closed curve traverses at least one location where the human hand intersects with the virtual object. Additionally, a user may interact with virtual three-dimensional content using the user's hands while a tracking system monitoring the user's hands, a physics engine updates the properties of the virtual three-dimensional content and a haptic feedback system provides haptic information to the user.



21: 2019/00928. 22: 2019/02/13. 43: 2021/08/03

51: F42B

71: BAE Systems Bofors AB

72: HEICHE, Ulf

33: SE 31: 1630224-2 32: 2016-09-15

54: METHOD AND ARRANGEMENT FOR MODIFYING A SEPARABLE PROJECTILE

00: -

The invention relates to a method for modifying a separable projectile (1,20) between a test embodiment or an effect embodiment by: i. detaching the front projectile body from the rear projectile body (3), ii. arranging a payload container (8,21) in the front projectile body where the payload container comprises measuring equipment or an effect part, and iii. fitting the front projectile body (2) to the rear projectile body (3) by way of a belt (4). The invention also relates to a separable projectile (1,20), which can be modified between a test embodiment and an effect embodiment.

Fig. 1

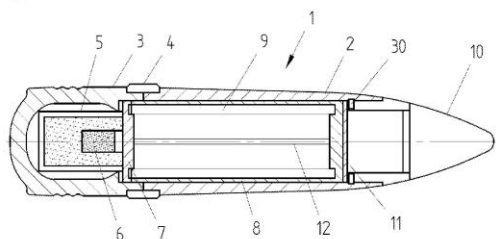
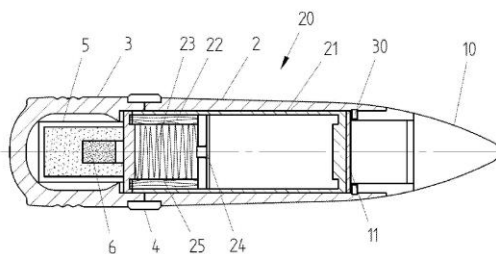


Fig. 2



21: 2019/01365. 22: 2019/03/05. 43: 2021/08/03

51: C01G; C22B

71: Impala Platinum Limited

72: ORELLANA CANALES, Eduardo Ariel, PRETORIUS, Johannes Marthinus

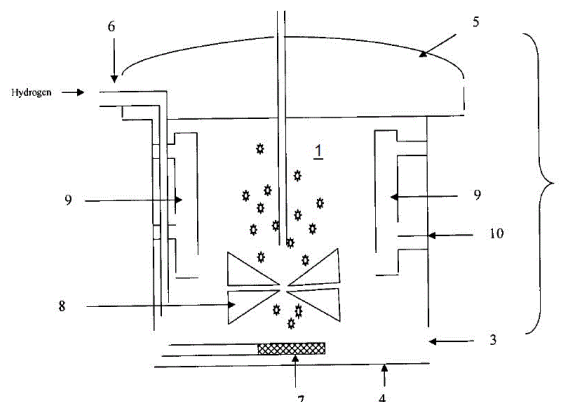
33: ZA 31: 2018/01623 32: 2018-03-09

54: REDUCTION OF RHODIUM ETHYLENE DIAMINE SALT

00: -

This invention relates to a process for producing rhodium metal, the process including the following steps: forming a rhodium salt slurry; reducing the rhodium salt slurry into to a metal slurry by means of

a gaseous reductant; and recovering the rhodium metal from the slurry.



21: 2019/01744. 22: 2019/03/20. 43: 2021/08/24

51: C07D; A61K; A61P

71: MITOBRIDGE, INC.

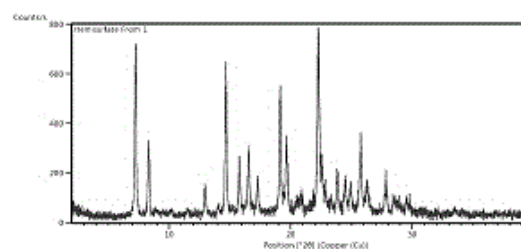
72: LAGU, BHARAT, TRZASKA, SCOTT

33: US 31: 62/404,474 32: 2016-10-05

54: CRYSTALLINE AND SALT FORMS OF PPAR AGONIST COMPOUNDS

00: -

This disclosure relates to salt forms of compounds capable of activating PPAR δ for use in drug substance and drug product development, and related compositions and methods.



21: 2019/02105. 22: 2019/04/04. 43: 2021/07/30

51: A61L; A61M

71: MASSYN, John, Frederick, MAREE, Nicolas, Petrus

72: MASSYN, John, Frederick, MAREE, Nicolas, Petrus

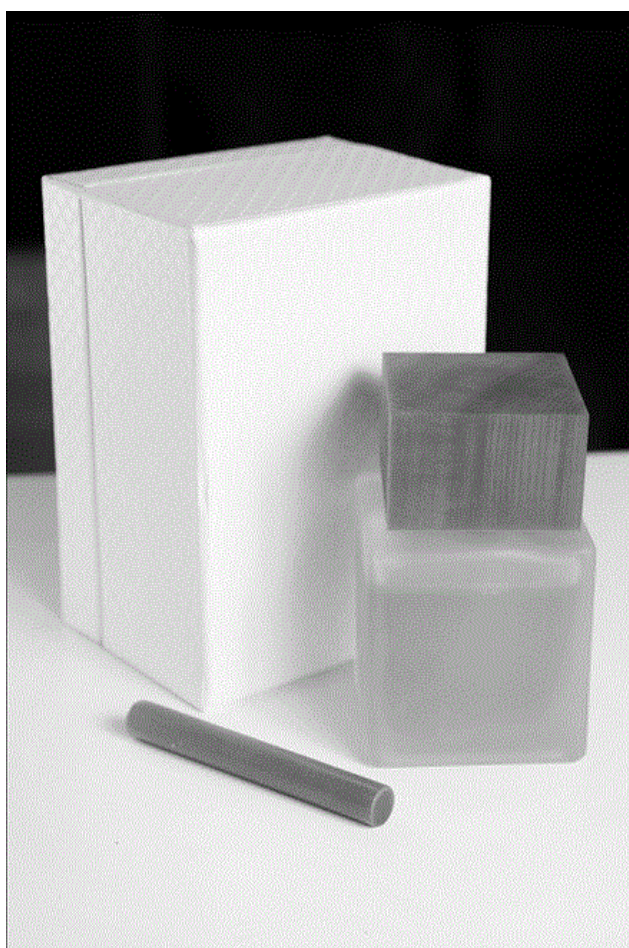
33: ZA 31: 2018/02166 32: 2018-04-04

54: PERFUME DIFFUSER

00: -

The invention provides a dispersion device for dispersing volatile liquids, having a receptacle for containing volatile liquid therein and having an

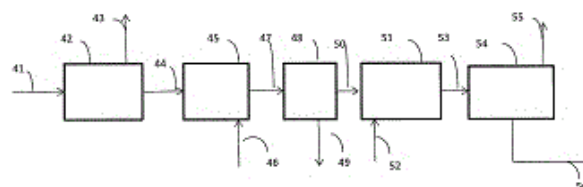
opening, at least one porous rigid member having an end placed in contact with the volatile liquid contained in the receptacle and for delivering the volatile liquid, and a diffuser secured to the other end of the at least one porous rigid member and having a body with a surface from which the volatile liquid delivered from the porous rigid member diffuses into the air at a steady rate sufficient to provide fragrance to its surroundings, said device including a volatile liquid impervious member which can be located over the diffuser, or which can replace the diffuser, thereby to inhibit diffusion of the volatile liquid into the air through the diffuser.



21: 2019/02125. 22: 2019/04/04. 43: 2021/08/24
51: C07C
71: JOHNSON MATTHEY DAVY TECHNOLOGIES LIMITED
72: LORD, ADRIAN, SMIDT, MARTIN
33: GB 31: 1617463.3 32: 2016-10-14
54: PROCESS FOR THE PRODUCTION OF 2-ALKYLALKANOL

00: -

A process for the production of 2-alkylalkanol from an aldehyde is disclosed. The process comprises the steps of: feeding aldehyde to a reactor (42) operated under condensation and dehydration conditions such that reaction occurs and an unsaturated aldehyde is produced; recovering a stream from the reactor (42) comprising the unsaturated aldehyde and feeding said stream to a first hydrogenation reactor (45) operated under conditions such that at least some of the unsaturated aldehyde is converted to 2-alkylalkanol; recovering the stream from the first hydrogenation reactor (45) comprising the 2-alkylalkanol, one or more of unreacted acrolein, alkylalkenol and alkylalkanal and heavies; passing the stream recovered from the first hydrogenation reactor (45) to a first distillation zone (48) where at least some of the heavies are separated from the stream; recovering a stream from the first distillation zone (48) comprising the 2-alkylalkanol, one or more of unreacted acrolein, alkylalkenol and alkylalkanal, said stream having a reduced heavies content when compared to the stream fed to the first distillation zone (48), and feeding said stream to a second hydrogenation reactor (51) operated under conditions such that at least one of the unreacted acrolein, alkylalkenol and alkylalkanal are converted to 2-alkylalkanol; and recovering a stream from the second hydrogenation reactor (51) comprising an increased 2-alkylalkanol content compared to the stream fed to the second hydrogenation reactor (51).



21: 2019/02265. 22: 2019/04/10. 43: 2021/08/16
51: A61K; C07K
71: AbbVie Biotherapeutics Inc.
72: AFAR, Daniel E. H., HARDING, Fiona A., SAMAYOA, Josue
33: US 31: 62/394,314 32: 2016-09-14
54: ANTI-PD-1 ANTIBODIES AND THEIR USES
00: -

The present disclosure provides novel anti-PD-1 antibodies, compositions including the new antibodies, nucleic acids encoding the antibodies, and methods of making and using the same.

21: 2019/02447. 22: 2019/04/17. 43: 2021/08/16
51: C12N
71: ALNYLAM PHARMACEUTICALS, INC.
72: ZIMMERMANN, TRACY, CHAN, AMY, JADHAV, VASANT, MAIER, MARTIN, RAJEEV, KALLANTHOTTATHIL G
33: US 31: 62/287,518 32: 2016-01-27
33: US 31: 62/199,563 32: 2015-07-31
54: TRANSTHYRETIN (TTR) IRNA COMPOSITIONS AND METHODS OF USE THEREOF FOR TREATING OR PREVENTING TTR-ASSOCIATED DISEASES

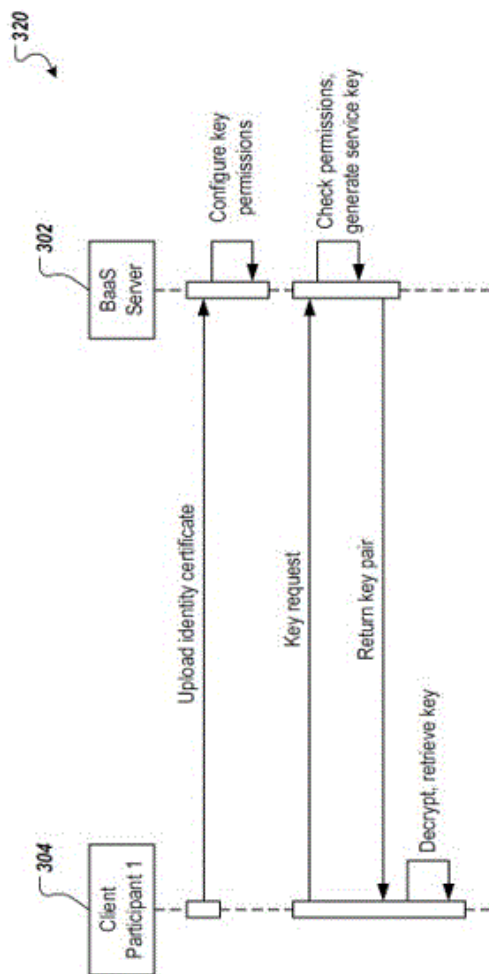
00: -

The present invention provides iRNA agents, e.g., double stranded iRNA agents, that target the transthyretin (TTR) gene and methods of using such iRNA agents for treating or preventing TTR-associated diseases.

21: 2019/02482. 22: 2019/04/17. 43: 2021/08/03
51: H04L
71: Alibaba Group Holding Limited
72: ZHANG, Yixiang, LI, Shubo
54: ASYMMETRIC KEY MANAGEMENT IN CONSORTIUM BLOCKCHAIN NETWORKS

00: -

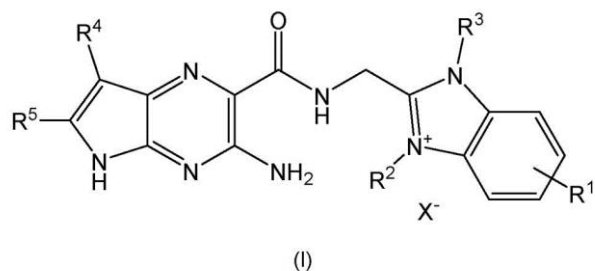
Implementations of the present specification provide for management of service keys for consortium blockchain networks within a blockchain-as-a-service (BaaS) platform. Implementations include actions of receiving a request for a service key from a participant in a consortium blockchain network provisioned within the BaaS platform, determining that the participant is authorized for the service key based on a service authorization table that records participant privileges within the consortium blockchain network, providing a key package including an encrypted private key of the service key, and a public key of the service key, and sending the key package to the participant, the participant decrypting the private key of the service key using a public key associated with the participant.



21: 2019/02710. 22: 2019/04/30. 43: 2021/08/24
51: A61K; C07D; A61P
71: ENTERPRISE THERAPEUTICS LIMITED
72: MCCARTHY, Clive, HARGRAVE, Jonathan, HAY, Duncan, Alexander, SCHOFIELD, Thomas, Beauregard, WENT, Naomi
33: GB 31: 1619694.1 32: 2016-11-22
54: BENZODIAZOLIUM COMPOUNDS AS ENAC INHIBITORS

00: -

Compounds of general formula (I) wherein R1, R2, R3, R4, R5 and X are as defined herein are inhibitors of the epithelial sodium channel (ENaC) and are useful for the treatment or prevention respiratory diseases and conditions, skin conditions and ocular conditions



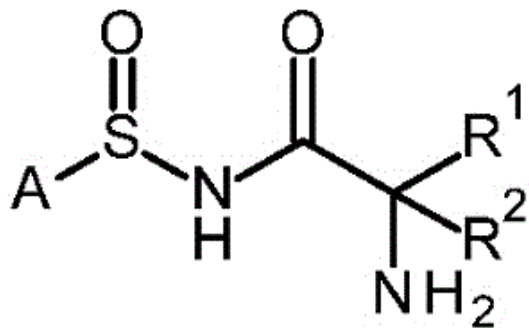
21: 2019/02765. 22: 2019/05/02. 43: 2021/08/03
 51: C07D; A61K; A61P; C07C
 71: OXFORD DRUG DESIGN LIMITED
 72: FINN, PAUL WILLIAM, CHARLTON, MICHAEL,
 EDMUND, GRACE, JIRGENSONS, AIGARS, LOZA,
 EINARS

33: GB 31: 1617064.9 32: 2016-10-07

**54: 2-AMINO-N-(ARYLSULFINYL)-ACETAMIDE
 COMPOUNDS AS INHIBITORS OF BACTERIAL
 AMINOACYL-TRNA SYNTHETASE**

00: -

The present invention pertains generally to the field of therapeutic compounds. More specifically the present invention pertains to certain 2-amino-N-(arylsulfinyl)-acetamide compounds that, inter alia, inhibit (e.g., selectively inhibit) bacterial aminoacyl-tRNA synthetase (aaRS) (e.g., bacterial leucyl-tRNA synthetase, LeuRS). The present invention also pertains to pharmaceutical compositions comprising such compounds, and the use of such compounds and compositions, both in vitro and in vivo, to inhibit (e.g., selectively inhibit) bacterial aminoacyl-tRNA synthetase; to treat disorders that are ameliorated by the inhibition (e.g., selective inhibition) of bacterial aminoacyl-tRNA synthetase; to treat bacterial infections; etc.



21: 2019/02889. 22: 2019/05/09. 43: 2021/08/24
 51: B65D
 71: TECNOCAP, LLC.

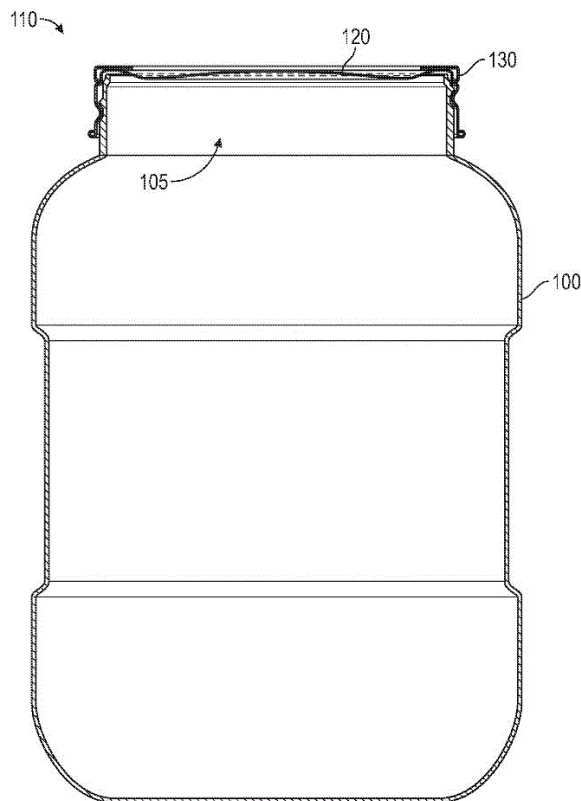
72: BARBATO, Carmine, SANTINI, Federico

33: US 31: 62/431,117 32: 2016-12-07

54: SEAL RELEASING CLOSURE ASSEMBLY

00: -

A seal releasing lid assembly includes a lid configured for coupling across a container opening of a container. The lid includes a lid surface and a lid wall extending from the lid surface. The lid wall includes a lid edge and a slidable coupling surface between the lid edge and the lid surface. The assembly includes a retaining and releasing ring configured for coupling with the container and with the lid. The retaining and releasing ring includes a ring flange and a release ridge. A ring wall extends from the ring flange to the release ridge. The retaining and releasing ring includes decoupling and release ready configurations. In the decoupling configuration the release ridge is slidably coupled along the lid wall. In the release ready configuration the release ridge is seated beneath the lid edge and slidably disengaged from the lid wall.



21: 2019/03416. 22: 2019/05/29. 43: 2021/08/16
 51: A61K; A23K; A61P
 71: DUPONT NUTRITION BIOSCIENCES APS

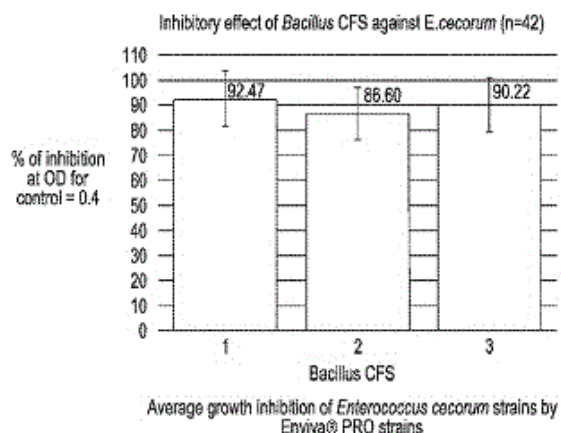
72: BERNARDEAU, MARION, WEALLEANS, ALEXANDRA

33: US 31: 62/435,214 32: 2016-12-16

54: BACILLUS-BASED COMPONENTS FOR INHIBITING OR DELAYING THE GROWTH OF ENTEROCOCCUS SPP. IN ANIMALS

00: -

A method for Inhibiting or Delaying the Growth of Enterococcus spp. in Animals using at least one Bacillus-based component is disclosed herein.



21: 2019/03494. 22: 2019/05/31. 43: 2021/08/16

51: E21D

71: GST RESEARCH AND DEVELOPMENT (PTY) LTD.

72: ROODT, PETER

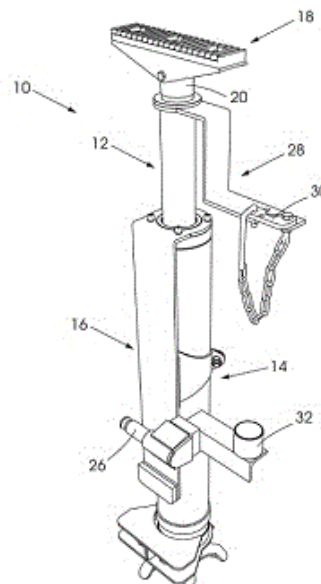
33: ZA 31: 2018/01452 32: 2018-03-02

54: VERTICAL THRUST LEG

00: -

This invention concerns a thrust leg which is, in use, mountable between a footwall and hanging wall of a mine working. The thrust leg includes a first support which is operable under fluid pressure between a first, retracted configuration and a second, extended configuration. In use, the first support is operable from its retracted configuration into its extended configuration wherein it engages the hanging wall so as to anchor the thrust leg between the foot and hanging wall of the mine working. The thrust leg includes a second support which is operable under fluid pressure between a first, retracted configuration and a second, extended configuration, wherein the first and second supports are independently operable between their retracted and extended configurations. A mounting arrangement for mounting a drill thereon is carried by the second

support such that the drill is moved along the first support through movement of the second support between its retracted and extended configurations. The first and second supports are preferably operable using hydraulic fluid.



21: 2019/03543. 22: 2019/06/03. 43: 2021/08/16
51: H04W

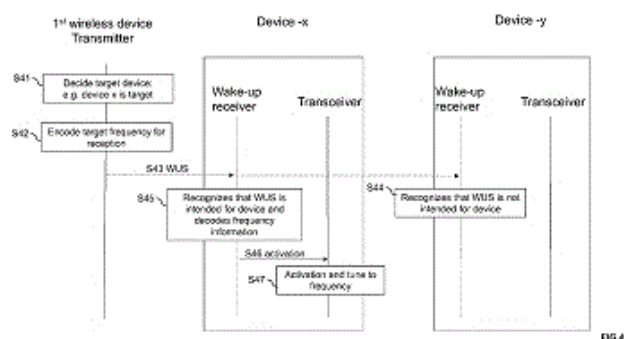
71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)

72: AMIN, PARTH, DEL CARPIO VEGA, LUIS FELIPE

54: WAKE-UP SIGNAL WITH FREQUENCY INFORMATION

00: -

The application relates to a method for operating a first wireless device (100) in a wireless network. At least one target wireless device (200) is determined which should receive a wake up signal by which a wake up receiver of the at least one target wireless device is informed that a main transceiver of the target wireless device should be ready for receiving at least a first message from the first wireless device. Furthermore a frequency is determined at which the at least first message should be transmitted to the at least one target wireless device, and a frequency information is encoded into the wake up signal with which at least one target wireless device is informed about the frequency at which the at least first message will be received. The wake up signal is transmitted with the encoded frequency information to the at least one target wireless device.



21: 2019/03579. 22: 2019/06/04. 43: 2021/08/16

51: C21D; C22C

71: OUTOKUMPU OYJ

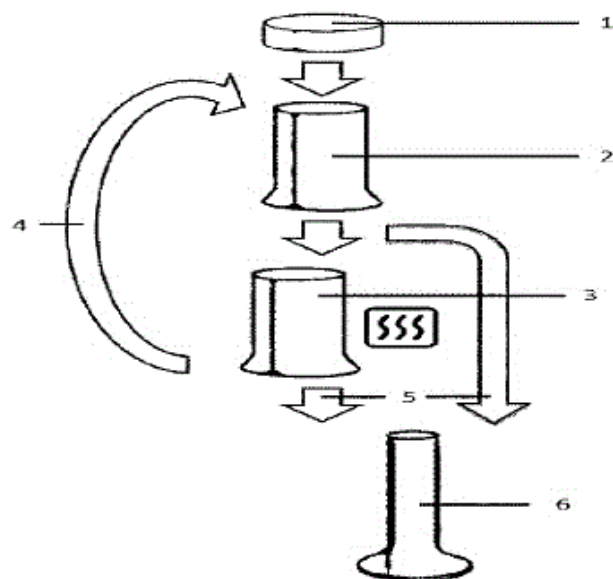
72: FRÖHLICH, THOMAS, LINDNER, STEFAN

33: EP 31: 16200246.3 32: 2016-11-23

54: METHOD FOR MANUFACTURING A COMPLEX-FORMED COMPONENT

00: -

The present invention relates to a method for manufacturing a complex-formed component (6) by using austenitic steels in a multi-stage process (4) where cold forming (2) and heating (3) are alternated for at least two multi-stage process (4) steps. The material during every process step and a component produced has an austenitic microstructure with non-magnetic reversible properties.



21: 2019/03608. 22: 2019/06/05. 43: 2021/08/16

51: A61K; A61P

71: REGULUS THERAPEUTICS INC., THE BOARD OF REGENTS OF THE UNIVERSITY OF TEXAS SYSTEM

72: ALLERSON, CHARLES R, PATEL, VISHAL D, CHAU, B. NELSON, ANDROSAVICH, JOHN R

33: US 31: 62/430,164 32: 2016-12-05

54: METHODS FOR TREATMENT OF POLYCYSTIC KIDNEY DISEASE

00: -

Provided herein are methods for the treatment of polycystic kidney disease, including autosomal dominant polycystic kidney disease, using modified oligonucleotides targeted to miR-17.

21: 2019/03609. 22: 2019/06/05. 43: 2021/08/16

51: E21B

71: MINCON INTERNATIONAL LIMITED

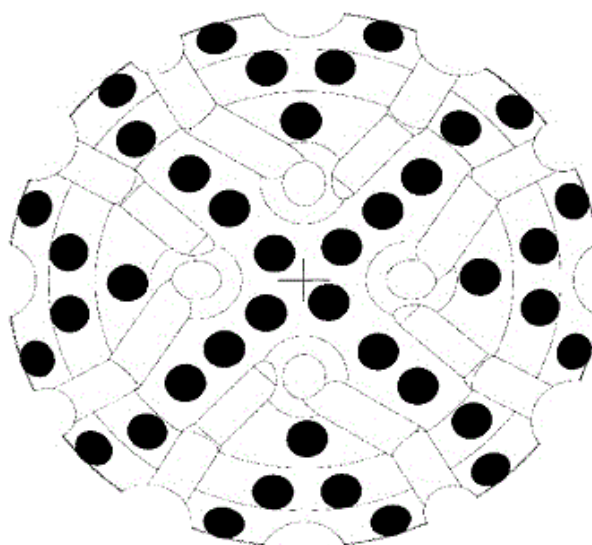
72: KOSOVICH, JOHN

33: GB 31: 1620220.2 32: 2016-11-29

54: DRILL BITS

00: -

A multi-indenter drill bit comprising a plurality of indenters arranged on a drilling surface of a bit face, the ratio of the total indenter area to the bit face area being defined by a parameter KPI 1 (expressed as a percentage); the ratio of the average individual indenter area to the bit face area being defined by a parameter KPI 2, (expressed as a percentage) and wherein the relationship between KPI 1 and KPI 2 is defined by an equation.



21: 2019/03629. 22: 2019/06/05. 43: 2021/08/16

51: B01F; A62C

71: GEL SYSTEMS CANADA INC

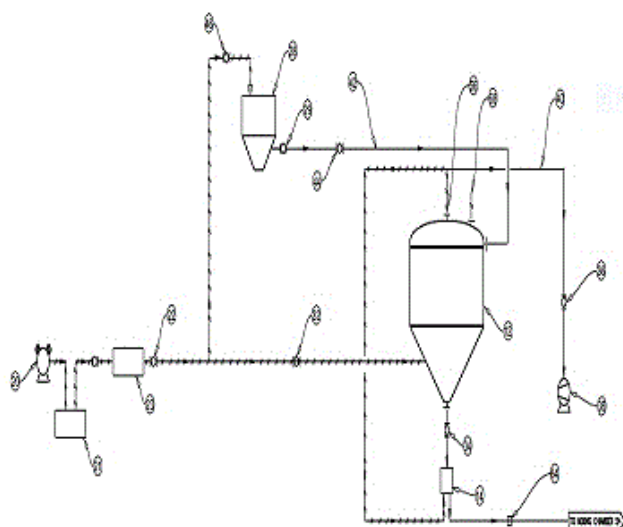
72: BOIRE, JAMES, ROBERTS, BRENT ALLAN,
NAHACHEWSKY, ADAM

33: US 31: 62/420,376 32: 2016-11-10

54: GEL PRODUCTION SYSTEM AND METHOD

00: -

A gel production system and method, in which a powder configured for mixing with an aqueous solvent such as water to form a gel is metered into a pressurized air stream to fluidize the powder, and the fluidized powder is injected into a pressurized water supply. The fluidized powder is at a greater pressure than the water supply, helping to hydrate the fluidized powder in the water, and the water supply plus fluidized powder are subsequently mixed in a mixing chamber to form the gel.



21: 2019/03900. 22: 2019/06/14. 43: 2021/08/16

51: H01L; C12Q; C07C

71: ILLUMINA, INC., ILLUMINA CAMBRIDGE
LIMITED

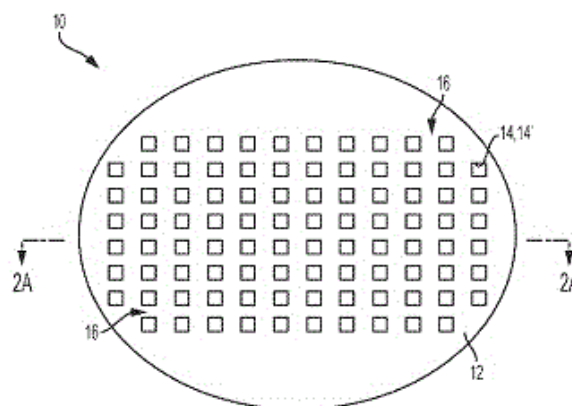
72: TSAY, JAMES, PRABHU, ANMIV, HEINER,
DAVID, LI, EDWIN, RICHEL, ALEXANDRE,
BEIERLE, JOHN M, SAMIEE, KEVAN, MUNOZ,
KRISTINA, MALEVANCHIK, LEONID, VINCENT,
LUDOVIC, ZHAN, NAIQIAN, SHIEH, PEYTON,
YANG, ROBERT, SCHMITT, SAMANTHA, PARK,
SANG, BAILEY, SCOTT, RAMIREZ, SEAN M, AHN,
SUNMIN, UZZELL, VALERIE, WEI, WEI, HUANG,
YUXIANG, DILL, TYLER JAMISON

33: US 31: 62/438,316 32: 2016-12-22

**54: FLOW CELL PACKAGE AND METHOD FOR
MAKING THE SAME**

00: -

A flow cell package includes first and second surface-modified patterned wafers and a spacer layer. The first surface-modified patterned wafer includes first depressions separated by first interstitial regions, a first functionalized molecule bound to a first silane or silane derivative in at least some of the first depressions, and a first primer grafted to the first functionalized molecule in the at least some of the first depressions. The second surface-modified patterned wafer includes second depressions separated by second interstitial regions, a second functionalized molecule bound to a second silane or silane derivative in at least some of the second depressions, and a second primer grafted to the second functionalized molecule in the at least some of the second depressions. The spacer layer bonds at least some first interstitial regions to at least some second interstitial regions, and at least partially defines respective fluidic chambers of the flow cell package.



21: 2019/04000. 22: 2019/06/20. 43: 2021/08/03

51: G01N

71: CSIR

72: OMBINDA LEMBOUMBA, Saturnin, MALABI,
Rudzani, MTHUNZI-KUFA, Patience, LUGONGOLO,
Masixole Yvonne, THOBAGALE, Lebogang

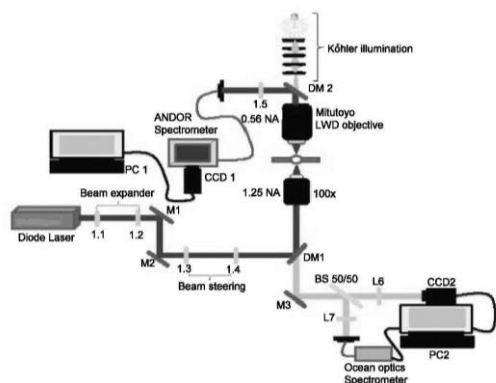
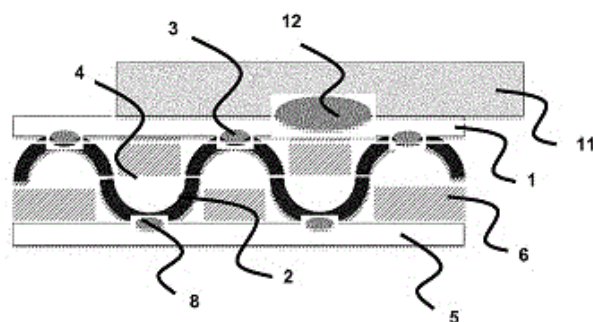
33: ZA 31: 2017/00578 32: 2017-01-25

**54: A METHOD AND SYSTEM FOR ANALYSING A
BIOLOGICAL SAMPLE OF LABEL-FREE CELLS
FOR PRESENCE OF AN INFECTIVE AGENT**

00: -

An ex vivo method of analysing a biological sample comprising a plurality of label-free cells to determine whether or not the sample includes cells that are infected by an infective agent includes optically trapping a label-free cell in the biological sample with

an optical beam and spectroscopically investigating the trapped label-free cell to determine in real-time if the trapped label-free cell is infected by an infective agent.



21: 2019/04060. 22: 2019/06/21. 43: 2021/08/16
51: B32B

71: OUTOKUMPU OYJ

72: NINNEMANN, PHILIP, HÜNDGEN, THOMAS, FRÖHLICH, THOMAS, LINDNER, STEFAN

33: EP 31: 16206337.4 32: 2016-12-22

54: METHOD FOR MANUFACTURING A WELDABLE METAL-POLYMER MULTILAYER COMPOSITE

00: -

The invention relates to a method for manufacturing a sandwich panel as a semi-finished product where at least one layer of a non-metallic material is positioned (4) between at least two metallic layers (1, 2, 5). At least one of the metal layers is shaped into a three dimensional layer (2), and the metal layers (1, 2, 5) are material closed to each other by a tack weld (3, 8) on the metallic contacts between the metallic layers (1, 2, 5) to enable resistance weldability of the semi-finished product in order to connect the semi-finished product to a desired combination of solutions.

21: 2019/04076. 22: 2019/06/24. 43: 2021/07/30

51: A61K A61L C12N

71: INSTITUTE OF ANIMAL SCIENCE OF CAAS

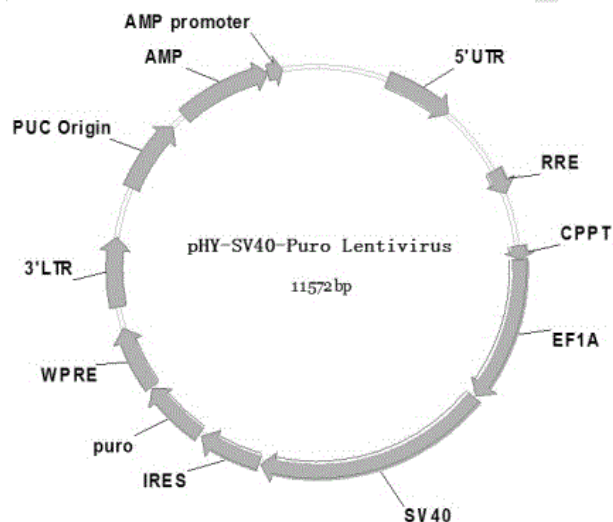
72: HAO, Yue, GU, Xianhong

33: CN 31: 201910084613.0 32: 2019-01-29

54: METHOD FOR CONSTRUCTING IMMORTALIZED PORCINE HEPATIC STELLATE CELL LINE, IMMORTALIZED PORCINE HEPATIC STELLATE CELL LINE, AND USE THEREOF

00: -

The present invention provides a method for constructing an immortalized porcine hepatic stellate cell line, an immortalized porcine hepatic stellate cell line, and the use thereof, and relates to the technical field of immortalized cells. The method includes obtaining normal porcine hepatic stellate cells by separating from a porcine liver, and conducting transfection with a SV40LT-overexpressing lentivirus to obtain the immortalized porcine hepatic stellate cell line. The invention adopts a lentiviral vector containing a SV40LT sequence to immortalize the porcine hepatic stellate cells, and has advantages of being capable of infecting non-dividing cells, accommodating large exogenous gene fragments, and expressing for a long period of time.



21: 2019/04085. 22: 2019/06/24. 43: 2021/07/30

51: C10L

71: BASF SE

72: ZORN, Matthias

33: EP 31: 16205271.6 32: 2016-12-20

54: USE OF A MIXTURE OF A COMPLEX ESTER WITH A MONOCARBOXYLIC ACID TO REDUCE FRICTION

00: -

The present invention relates to the use of a mixture comprising (I) at least one complex ester obtainable by an esterification reaction between (A) at least one aliphatic linear or branched C2-to C12-dicarboxylic acid, (B) at least one aliphatic linear or branched polyhydroxy alcohol with 3 to 6 hydroxyl groups, and (C) as a chain stopping agent (C1) at least one aliphatic linear or branched C1-to C30-monocarboxylic acid in case of an excess of component (B), or (C2) at least one aliphatic linear or branched monobasic C1-to C30-alcohol in case of an excess of component (A), and (II) at least one aliphatic monocarboxylic acid having from 12 to 30 carbon atoms in a weight ratio of (I) : (II) of from 20 to 80 : 80 to 20 as an additive in a fuel for different purposes.

21: 2019/04135. 22: 2019/06/25. 43: 2021/08/16

51: H04L; H03M

71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)

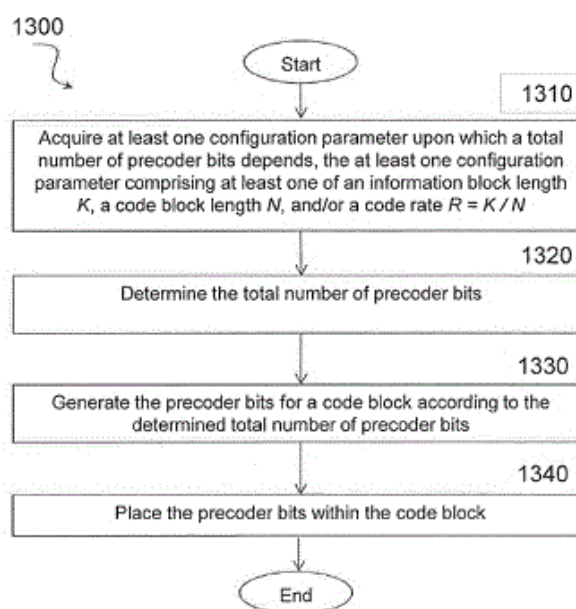
72: BLANKENSHIP, YUFEI, HUI, DENNIS

33: US 31: 62/455,128 32: 2017-02-06

54: CONCATENATED POLAR CODE WITH ADAPTIVE ERROR DETECTION

00: -

According to certain embodiments, a method by a transmitter is provided for adaptively generating precoder bits for a Polar code. The method includes acquiring at least one configuration parameter upon which a total number of precoder bits depends. The at least one configuration parameter comprising at least one of an information block length K , a code block length N , and/or a code rate $R = K/N$. The total number of precoder bits is determined, and the precoder bits for a code block are generated according to the determined total number of precoder bits. The precoder bits are placed within the code block.



21: 2019/04185. 22: 2019/06/26. 43: 2021/08/16

51: C07D; A61K

71: TONIX PHARMA HOLDINGS LIMITED

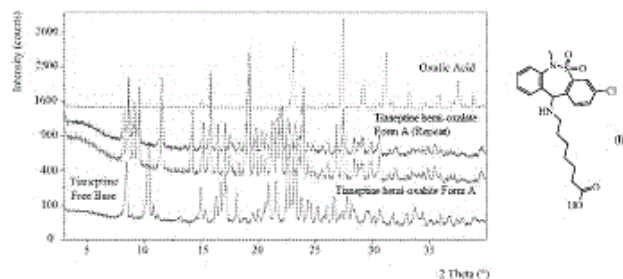
72: GIAFFREDA, STEFANO LUCA, MODENA, ENRICO, FABBIONI, SERENA, CHIARUCCI, MICHEL, EDGAR, MARK T

33: US 31: 62/439,533 32: 2016-12-28

54: TIANEPTINE OXALATE SALTS AND POLYMORPHS

00: -

Disclosed herein is an oxalate salt/co-crystal (tianeptine oxalate) of (RS)-7-(3-chloro-6-methyl-6,11-dihydrodibenzo[c,f][1,2]thiazepin-11-ylamino)heptanoic acid S,S-dioxide (tianeptine) as shown in Formula (I).



21: 2019/04226. 22: 2019/06/27. 43: 2021/08/03

51: B65D; C08G; C08J; C09D

71: SWIMC LLC

72: RIAZZI, Arthur, O'BRIEN, Robert M.

33: US 31: 62/436,112 32: 2016-12-19

54: AQUEOUS POLYESTER DISPERSIONS, ARTICLES HAVING A COATING FORMED FROM SUCH AQUEOUS DISPERSIONS, AND METHODS OF COATING

00: -

An aqueous dispersion comprising: water; a hydrophobic aromatic polyester having a number average molecular weight of greater than 7,000 Daltons; and a water-dispersible aromatic polyester dispersant; wherein the hydrophobic aromatic polyester and the water-dispersible aromatic polyester dispersant form a stable aqueous dispersion; and wherein the hydrophobic aromatic polyester is present in the aqueous dispersion in an amount of less than 50 wt-%, based on the total weight of the hydrophobic aromatic polyester and the water-dispersible aromatic polyester dispersant.

21: 2019/04255. 22: 2019/06/28. 43: 2021/09/28

51: H02B

71: YIHE ELECTRIC GROUP CO., LTD.

72: KONG Xiangchong, ZHU Jiqin, SUI, Bingham, SONG, Dewen, PENG Fengjuan, GAO, Xiang

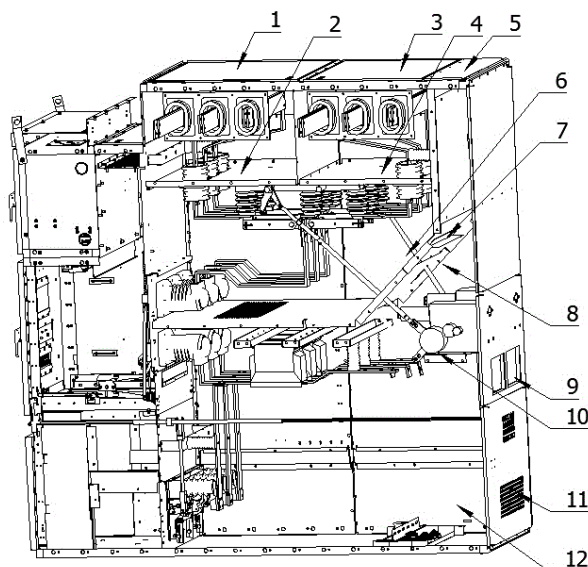
33: CN 31: 2018112914562 32: 2018-10-31

54: DOUBLE-BUSBAR HIGH VOLTAGE SWITCHGEAR

00: -

A double-busbar high voltage switchgear, including a cabinet body, wherein a first busbar chamber, a second busbar chamber and a distribution switch chamber are arranged in the cabinet body, a first busbar is installed in the first busbar chamber, a second busbar is installed in the second busbar chamber, a double-throw distribution switch is installed in the distribution switch chamber, the first

busbar and the second busbar are connected with two ends of the double-throw distribution switch respectively, the double-throw distribution switch includes two sets of moving contacts, and each set of moving contacts is operated by a manual and electric integrated operating mechanism to connect or disconnect a corresponding busbar circuit.



21: 2019/04268. 22: 2019/06/28. 43: 2021/06/23

51: C02F

71: THE RESEARCH FOUNDATION FOR THE STATE UNIVERSITY OF NEW YORK

72: GAN, Qiaoqiang, YU, Zongfu, LIU, Zhejun, SONG, Haomin, SINGER, Matthew, LI, Chenyu

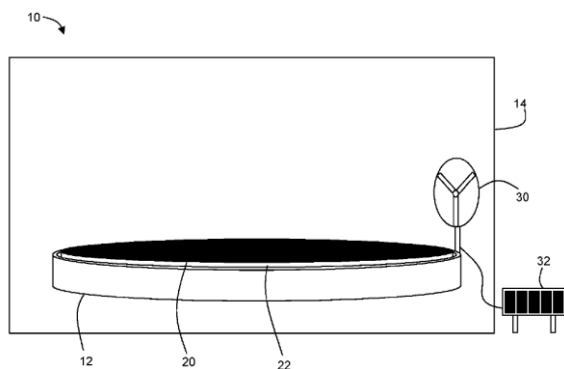
33: US 31: 62/428,138 32: 2016-11-30

33: US 31: 62/517,604 32: 2017-06-09

54: SYSTEM AND METHOD FOR SOLAR VAPOR EVAPORATION AND CONDENSATION

00: -

A solar vapor generator system and method are provided. In some embodiments, the system has near perfect energy conversion efficiency in the process of solar vapor generation below room temperature. Remarkably, when the operation temperature of the system is below that of the surroundings, the total vapor generation will be higher than the upper limit that can be produced by the input solar energy.



21: 2019/05274. 22: 2019/08/08. 43: 2021/08/03

51: H04L

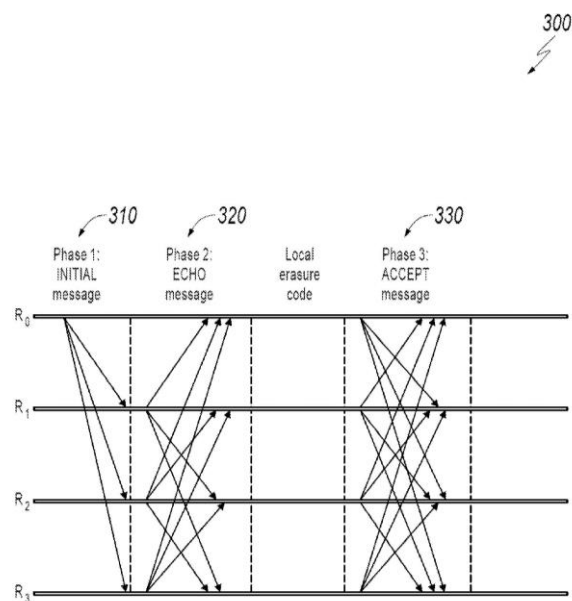
71: Alibaba Group Holding Limited

72: LIN, Peng

54: PERFORMING A CHANGE OF PRIMARY NODE IN A DISTRIBUTED SYSTEM

00: -

A method of performing a change of a primary node in a blockchain network includes a backup node of the blockchain network determining that an epoch change needs to be performed, determining a respective weight of the backup node associated with each of three phases of a consensus process in a current epoch, determining a weight sum for the backup node based on the respective weights, sending an EPOCH_CHANGE message to the other network nodes to apply for a new primary node in a new epoch, receiving NEW_EPOCH messages from the other network nodes, determining whether a number of valid NEW_EPOCH messages exceeds a second predetermined threshold, and determining the backup node to be the new primary node in the new epoch in response to determining that the number of valid NEW_EPOCH messages exceeds the second predetermined threshold.



21: 2019/05341. 22: 2019/08/13. 43: 2021/10/08

51: A61K; C07K; A61P

71: MAB DISCOVERY GMBH

72: Stephan FISCHER, Karsten BECKMANN

33: EP 31: 17160191.7 32: 2017-03-09

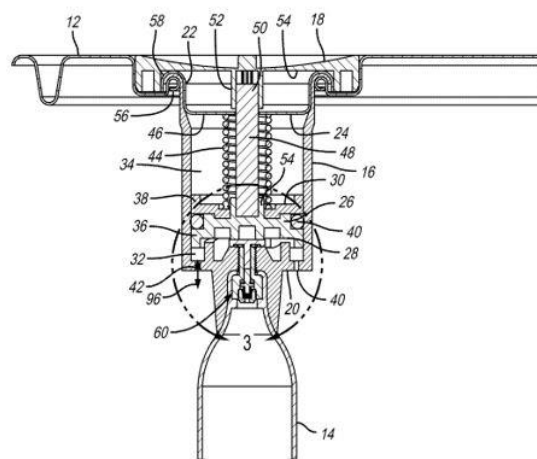
54: ANTIBODIES SPECIFICALLY BINDING TO HUMAN IL-1R7

00: -

The present invention relates to monoclonal antibodies that specifically bind to human IL-1 R7, or a fragment or derivative thereof or a polypeptide that contain at least a portion of said antibody that is sufficient to confer specific IL-1 R7 binding to the polypeptide. The invention also relates to the use of said antibodies in the treatment of a IL-18 mediated disease and pharmaceutical compositions comprising a pharmaceutically acceptable carrier and a therapeutically effective amount of the antibody according to the invention.

Fig.1: IL-18 functional assay

Antibody comprising SEQ ID NO.	% Inhibition
1	51
2	31
3	47
4	61
5	38
6	53
7	38
8	56
9	67
10	40
11	40
12	35
13	83
14	81
15	81
16	80
17	76
18	73
19	69
20	69
21	68
22	66
23	66
24	66
25	65
26	65
27	64
28	64
29	64
30	63
31	63
32	62
33	61
34	61
35	61
36	60



21: 2019/05686. 22: 2019/08/28. 43: 2020/03/23
51: B67D

71: JOSEPH COMPANY INTERNATIONAL, INC
72: RADFORD, Mark, P

54: PRESSURE REGULATOR VALVE

00: -

A pressure regulator valve adapted to be secured within a container housing a beverage to be dispensed through the aid of pressure within the headspace (11) above the beverage, the regulator valve includes a housing (16) containing a piston (26) having one surface exposed continuously to the pressure in the headspace and the other surface being engaged by a spring (44), a source of pressurized gas (14) such as carbon dioxide is secured to the housing and includes a valve (60) which is activated by the piston which moves responsive to a differential between the spring force and the headspace pressure to open the valve (60) when the headspace pressure falls below a predetermined level to insert the carbon dioxide into the headspace to maintain the headspace pressure sufficient to dispense the beverage.

21: 2019/05864. 22: 2019/09/05. 43: 2021/08/03
51: A23L; A61K; A61Q; C12Q; G01N

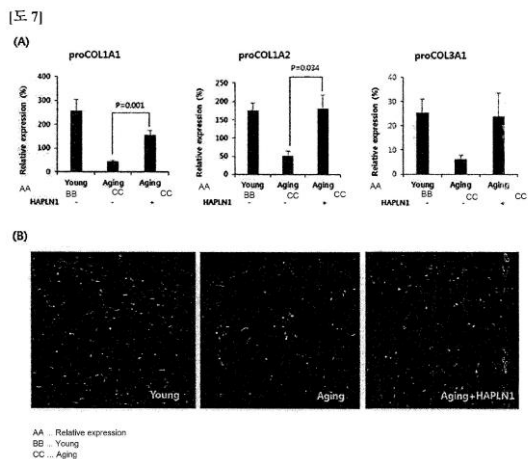
71: HAPLNScience Inc.

72: KIM, Dae Kyong, FU, Zhicheng, BACK, Moon Jung

54: COMPOSITION FOR SKIN AGING MEASUREMENT, PREVENTION, OR ALLEVIATION, USING HAPLN1

00: -

The present invention relates to an HAPLN1 protein of an aged individual. The HAPLN1 protein has reduced expression during aging and has an excellent effect of alleviating and reversing skin aging including wrinkles when administered. Therefore, by using the difference in the expression, provided are: a biomarker composition for measuring skin aging, capable of diagnosing skin aging; a kit; and a method for screening for skin aging-alleviating agents, comprising a step of detecting the expression level of an HAPLN1 protein or an HAPLN1 gene. In addition, provided are a skin aging preventing or alleviating pharmaceutical composition, cosmetic composition, or health functional food, and a wrinkle alleviating cosmetic composition or health functional food, all of which contain any one or more selected from the group consisting of an HAPLN1 protein, a gene coding for the same, and an effective agent for promoting the expression of the HAPLN1 protein or gene or activating the functions thereof.



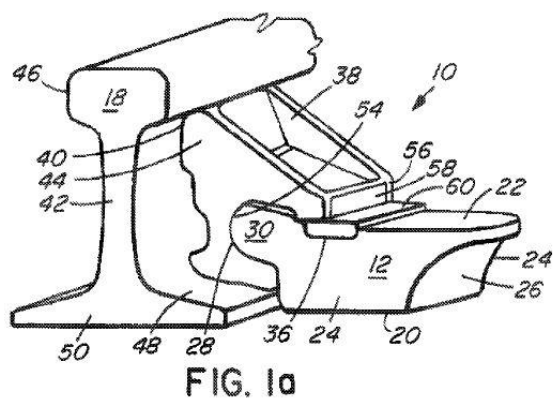
51: E01B

VOESTALPINE VAE GMBH

33: US 31: 15/476,883 32: 2017-03-31

00: -

A boltless brace assembly for a rail includes a base block interlocked with a brace, and further includes a wedge to be inserted between an upper surface of the base block and a lower surface of the brace, thereby applying an upward force to the brace and a resultant downward force to secure the rail base. The brace assembly may be modified to provide a universal brace assembly, a resilient brace assembly, or a frog base clamp.

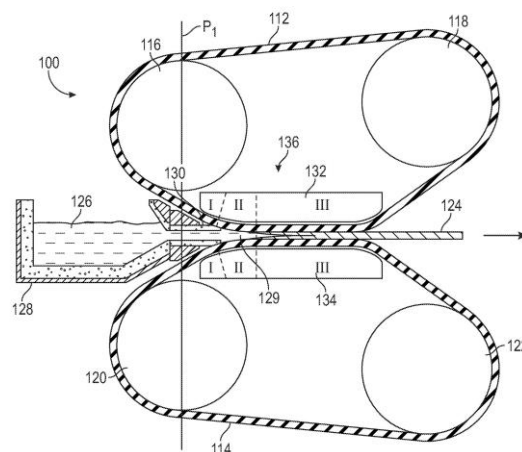


51: B22D

33: US 31: 62/483,987 32: 2017-04-11

00: -

A continuous casting apparatus includes a first belt carried by a first upstream pulley and a first downstream pulley, a second belt carried by a second upstream pulley and a second downstream pulley, and a mold region defined by a first mold support section arranged behind the first belt and a second mold support section arranged behind the second belt. The first mold support section supports the first belt and defines a shape of the first belt in the mold region and the second mold support section supports the second belt and defines a shape of the second belt in the mold region. At least one of the first mold support section and the second mold support section includes a transition portion and a generally planar portion downstream from the transition portion. The transition portion has a variable radius configured to receive molten metal from a metal feeding device.



51: C08F; C08K; C08L

72: Pavel SHUTOV (Russian Citizen), Susanne KAHLEN (Austrian Citizen), Daniela MILEVA (Bulgarian Citizen), Renate ECKMAYR (Austrian Citizen), Claudia KNIASEL (Austrian Citizen)

54: POLYOLEFIN COMPOSITION WITH

00: -

The present invention is directed to a heterophasic polypropylene composition (HECO1) and the use thereof to reduce the amount of flow marks of an injection moulded polyolefin composition. Further, the present invention is directed to a polyolefin composition (C) comprising a polyolefin (PO), said heterophasic polypropylene composition (HECO1) and optionally a filler as well as an article comprising said polyolefin composition (C).

21: 2019/06817. 22: 2019/10/16. 43: 2021/08/16
51: A61K; A61P

71: Theravance Biopharma R&D IP, LLC

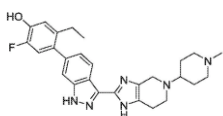
72: THALLADI, Venkat R., ZHANG, Hao,
KLEINSCHKE, Melanie A., CRATER, Glenn D.

33: US 31: 62/492,568 32: 2017-05-01

54: METHODS OF TREATMENT USING A JAK INHIBITOR COMPOUND

00: -

The invention relates to methods of treating ocular diseases and certain respiratory diseases using the compound 5-ethyl-2-fluoro-4-(3-(5-(1-methylpiperidin-4-yl)-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridin-2-yl)-1H-indazol-6-yl)phenol Formula or a pharmaceutically-acceptable salt thereof.



21: 2019/07282. 22: 2019/11/01. 43: 2020/12/18
51: H04L

71: LISTAT LTD

72: WILLIAMS, Richard, K, VERZUN, Ievgen,
HOLUB, Oleksandr

33: US 31: 62/480,696 32: 2017-04-03

54: METHODS AND APPARATUS FOR HYPERSECURE LAST MILE COMMUNICATION

00: -

A variety of techniques for concealing the content of a communication between a client device, such as a cell phone or laptop, and a network or cloud of media nodes are disclosed. Among the techniques are routing data packets in the communication to different gateway nodes in the cloud, sending the packets over different physical media, such as an Ethernet cable or WiFi channel, and disguising the packets by giving them different source addressees. Also disclosed are a technique for muting certain participants in a conference call and a highly secure method of storing data files.

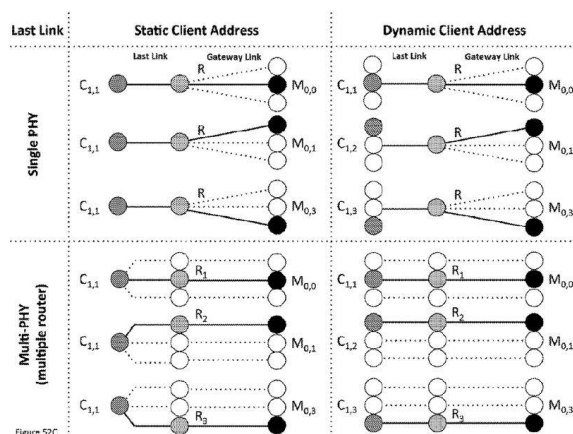


Figure 52C

21: 2019/07309. 22: 2019/11/04. 43: 2021/08/19
51: G06Q

71: AMVAC Hong Kong Limited

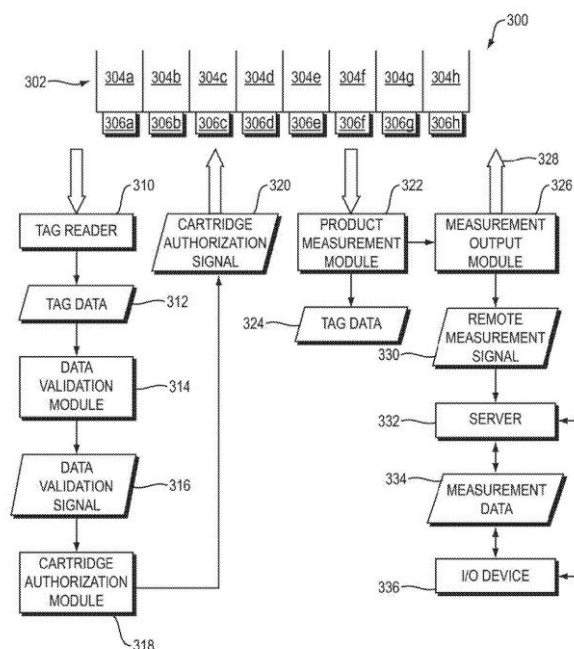
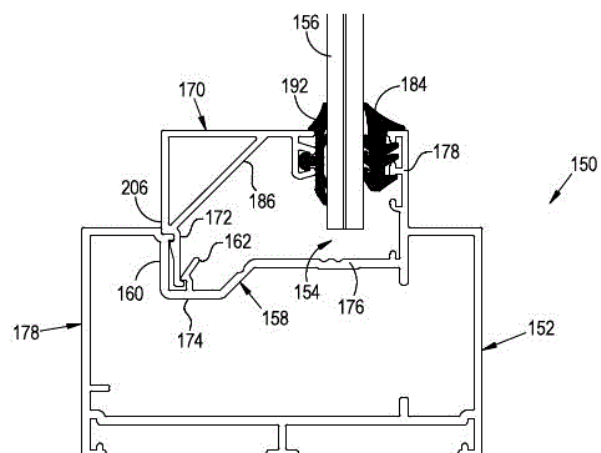
72: WINTEMUTE, Eric G., RICE, Richard L.,
JAMES, Kent, RICHARDSON, John J.

33: US 31: 62/508,145 32: 2017-05-18

54: TAGGED CONTAINER TRACKING

00: -

A system and method that automatically monitors product use, such as the type and amount of agricultural and/or horticultural product stored in and dispensed from a cartridge over time and/or by geographic location. Monitored data are stored in memory such as a tag on the cartridge and may be transmitted to a server for storage, aggregation, and analysis. The cartridge may be authenticated before being authorized for use for the benefit of a current user in dispensing the product. The cartridge may be refilled after confirmation of authorization codes on the cartridge and refilling equipment tags. The cartridge may be calibrated automatically based on the bulk density or other parameter of the product in the cartridge. Data may be aggregated from a plurality of cartridges automatically. As-applied data from individual cartridges may be used to verify, independent of operator input, treated area coverage and product application rate.



21: 2019/07541. 22: 2019/11/14. 43: 2021/07/23
51: E06B

71: WISPECO (PTY) LTD

72: FOURIE, Waldo

33: ZP 31: 2018/05396 32: 2018-08-14

54: ALUMINIUM FRAME ARRANGEMENT

00: -

A frame arrangement is disclosed, comprising a frame component having an opening arranged to accommodate the edge of a window, the frame component comprising a base plate having a side wall and a spaced apart inner lip, the side wall and the inner lip defining a groove or recess on one side of the frame component; and a bead component having a leg that can be inserted into the groove between the side wall and the inner lip of the frame component, the leg having a length substantially the same as the side wall of the frame component, with the bottom of the leg abutting against the inner lip, so that once the frame arrangement is fully assembled, the bead component cannot be pried away from the frame component.

21: 2019/07610. 22: 2019/11/18. 43: 2021/08/24

51: A61K; C07D; A61P

71: NOVARTIS AG, PALOBIOFARMA S.L.

72: CUI, Kai, KONG, Weiyong, CASTRO-

PALOMINO LARIA, Julio Cesar

33: CN 31: PCT/CN2017/086624 32: 2017-05-31

54: CRYSTALLINE FORMS OF 5-BROMO-2,6-DI(1H-PYRAZOL-1-YL)PYRIMIDIN-4-AMINE AND NEW SALTS

00: -

This application relates to various crystalline forms of 5-bromo-2,6-di(1H-pyrazol-1-yl)pyrimidin-4-amine and salt thereof, as well as compositions and methods of using the same. In some embodiments the crystalline forms also contain water ("hydrates"). These materials are useful in the treatment of various diseases, including carcinomas, specifically lung cancer and more specifically non-small cell lung cancer.

21: 2019/07733. 22: 2019/11/22. 43: 2021/07/30

51: C03C

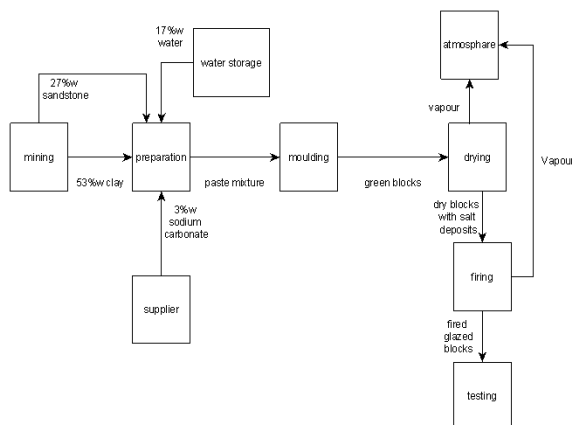
71: THE UNIVERSITY OF JOHANNESBURG

72: MASHEANE, Monaheng, Leonard, MAKHATHA, Mamookho, Elizabeth, MALATALIANA, Thabang, Fernando, THAMAE, Thimomy

54: SELF-GLAZING CERAMICS

00: -

The invention provides a mixture and method for producing self-glazing ceramic articles. The method uses natural clay as the main raw material, small amounts of additives selected from a salt, and sandstone rock.



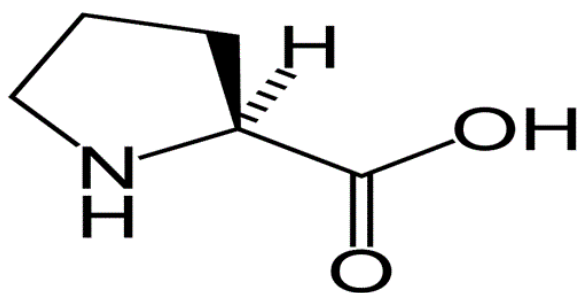
21: 2019/07770. 22: 2019/11/25. 43: 2021/07/30
51: C08F

71: THE UNIVERSITY OF JOHANNESBURG
72: MOFU, Tsoeunyane, George, MAKHATHA, Mamookho, Elizabeth, AROTIBA, Omotayo, Ademola

54: POLY(ETHYLENE SUCCINATE)-L-PROLINE POLYMER COMPOSITE

00: -

The invention provides a poly(ethylene succinate) proline composite and a method for synthesising a poly(ethylene succinate) proline composite. The method includes the steps of dissolving poly(ethylene succinate) (PES) in water, adding a proline and organic acid solution to give a homogeneous mixture, and adding a peroxide to initiate polymerisation.



21: 2019/08019. 22: 2019/12/03. 43: 2021/08/24
51: E04B

71: RH HOMES (PTY) LTD
72: ROUX, Albertus Jacobus Johannes
33: ZA 31: 2018/07566 32: 2018-11-12

54: A BUILDING AND A METHOD OF MANUFACTURING SUCH A BUILDING

00: -

The invention relates to a building. The building has a horizontal floor frame and a shallow foundation which supports the floor frame. The building includes a plurality of wall frames. The wall frames are secured to the floor frame so as to extend vertically from the floor frame. Each wall frame is defined by multiple spaced apart upright members and at least one horizontal member. At least one of the wall frames includes receiving formations shaped to accommodate a window and/or a door between adjacent upright members. The building further includes a roof structure which is secured on top of at least two of the wall frames. The roof structure has a plurality of rib members extending above and across the floor frame. The rib members are curved such that the roof structure has a generally convex exterior. A kit for and method of manufacturing the building are also provided.



21: 2019/08422. 22: 2019/12/17. 43: 2021/06/22
51: B23K

71: TRANSNET SOC LIMITED
72: MATJEKE, Velaphi Jeffrey, MALEKA, Makgalake Aubrey, MUKWEVHO, Goodness, PILLAY, Keshini, GOVENDER, Dhurasha, MAMPHEKGO, Tefelo Calystus

33: ZA 31: 2018/06257 32: 2018-09-18

54: METHOD OF WELDING FERRITIC STAINLESS STEELS

00: -

The invention relates to a method of welding ferritic stainless steel, the method comprising configuring ferritic stainless steel members in a predefined weld joint configuration; and welding the ferritic stainless steel members using a heat input of less than about 1.5 kilojoules/mm.

21: 2019/08454. 22: 2019/12/18. 43: 2021/03/09
 51: A61K; A61P
 71: RICHTER GEDEON NYRT.
 72: KONTA, Melinda, SUBA, Edit, DARÓCZI, Tünde
 Beáta, MAGOS, Zoltán, RAJSZKINÉ LABOS,
 Ramóna

33: HU 31: P1700253 32: 2017-06-13

54: SOLID PREPARATION OF CARIPRAZINE FOR ORAL ADMINISTRATION

00: -

The invention relates oral pharmaceutical compositions for the modified release delivery of cariprazine (trans-N-{4-[2-[4-(2,3-dichlorophenyl)-piperazin-1-yl]-ethyl]-cyclohexyl}-N',N'-dimethylurea) or pharmaceutically acceptable salts thereof for less than daily dosing. The invention also relates to the use of said compositions in the treatment and/or prevention of pathological conditions which require the modulation of dopamine receptors. The invention also relates to the process for the preparation of said modified release pharmaceutical compositions.

21: 2019/08539. 22: 2019/12/20. 43: 2021/09/06
 51: A61K; A61P
 71: CIPLA LIMITED
 72: MALHOTRA, Geena, JOSHI, Kalpana,
 GHOSALKAR, Jeevan

33: IN 31: 201721021945 32: 2017-06-22

54: METHOD OF TREATMENT OF CANCER

00: -

Disclosed herein are methods for treating cancer in a subject in need thereof by administering an agent or pharmaceutically acceptable derivative thereof, optionally with another agent, induces prostate apoptosis response-4 (Par-4) production by non-cancerous normal cells, to promote apoptosis in cancer cells.

21: 2020/00014. 22: 2020/01/02. 43: 2021/09/06
 51: A61K; A61P
 71: CIPLA LIMITED
 72: MALHOTRA, Geena, JOSHI, Kalpana,
 GHOSALKAR, Jeevan, DAROI, Atul, AGRAWAL,
 Siddharth

33: IN 31: 201721023142 32: 2017-06-30

54: PHARMACEUTICAL COMPOSITIONS

00: -

The invention relates to pharmaceutical compositions comprising ((((((R)-1-(6-amino-9H-purin-9-yl)propan-2-

yl)oxy)methyl)(phenoxy)phosphoryl)oxy)methyl pivalate or a pharmaceutically acceptable derivative thereof, optionally with an additional agent, methods of making them, and their use in medicine.

21: 2020/00020. 22: 2020/01/02. 43: 2021/09/02
 51: G06F; G10L; H04S

71: FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V.

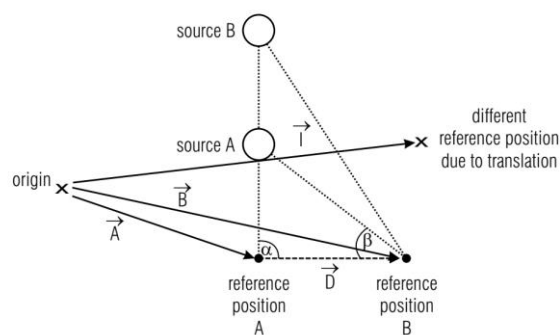
72: HERRE, Jürgen, HABETS, Emanuel

33: EP 31: 17181488.2 32: 2017-07-14

54: CONCEPT FOR GENERATING AN ENHANCED SOUND FIELD DESCRIPTION OR A MODIFIED SOUND FIELD DESCRIPTION USING A MULTI-POINT SOUND FIELD DESCRIPTION

00: -

Apparatus for generating an enhanced sound field description, comprising: a sound field generator (100, 250, 260) for generating at least one sound field description indicating a sound field with respect to at least one reference location; and a meta data generator (110) for generating meta data relating to spatial information of the sound field, wherein the at least one sound field description and the meta data constitute the enhanced sound field description. The at least one sound field description comprises in a certain case a first sound field description related to the at least one reference location and a second sound field description related to a further reference location being different from the reference location, and the meta data relating to the spatial information indicates the reference location and the further reference location or one of both reference locations and a vector extending between both reference locations.



21: 2020/00023. 22: 2020/01/02. 43: 2021/09/10

51: G06F; G10L; H04S

71: FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V.

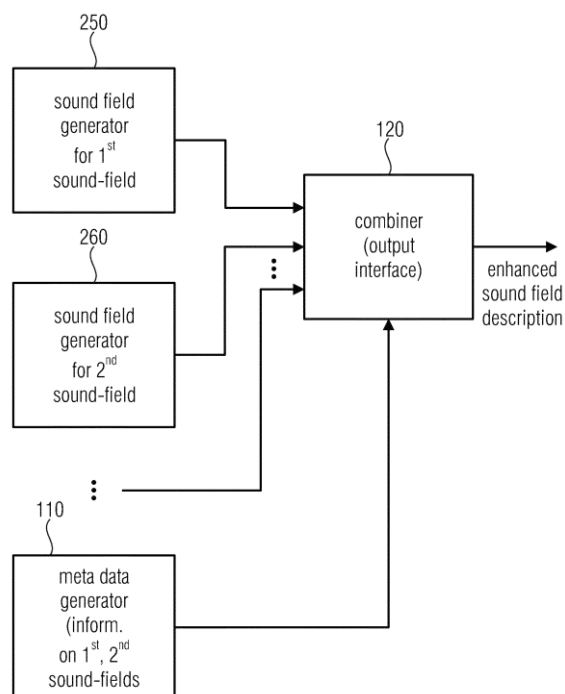
72: HERRE, Jürgen, HABETS, Emanuel

33: EP 31: 17181484.1 32: 2017-07-14

54: CONCEPT FOR GENERATING AN ENHANCED SOUND-FIELD DESCRIPTION OR A MODIFIED SOUND FIELD DESCRIPTION USING A MULTI-LAYER DESCRIPTION

00: -

An apparatus for generating an enhanced sound field description comprises: a sound field generator (100) for generating at least two sound field layer descriptions indicating sound fields with respect to at least one reference location; and a meta data generator (110) for generating meta data relating to spatial information of the sound fields, wherein the sound field descriptions and the meta data constitute the enhanced sound field description. The meta data can be a geometrical information for each layer such as a representative distance to the reference location.



21: 2020/00045. 22: 2020/01/03. 43: 2021/08/16

51: B02C; B03D; C22B

71: ANGLO AMERICAN SERVICES (UK) LTD

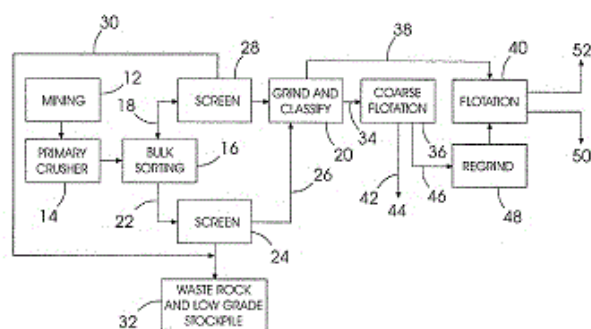
72: FILMER, ANTHONY OWEN, ALEXANDER, DANIEL JOHN

33: US 31: 15/631,137 32: 2017-06-23

54: MAXIMISE THE VALUE OF A SULPHIDE ORE RESOURCE THROUGH SEQUENTIAL WASTE REJECTION

00: -

This invention relates to an integrated process for recovering value metals from sulphide ore which includes the steps of bulk sorting 16 and screening 24/28 crushed ore. The sorted/screened coarse ore stream is ground and classified 20 to provide a coarse fraction 34 suitable for coarse flotation and a first fine fraction 38 suitable for flotation. The coarse fraction suitable for coarse flotation is subjected to coarse flotation 36 thereby to obtain a gangue 42 and an intermediate concentrate 46. The intermediate concentrate is subjected to grinding 48 to provide a second fine fraction suitable for conventional flotation. The first fine fraction and the second fine fraction are subjected to conventional flotation 40 to provide a concentrate and tailings. This process that capitalises on the natural heterogeneity of sulphide orebodies, and utilises bulk sorting, screening and coarse flotation beneficiation technologies in a novel multistage configuration to reject the maximum quantity of waste gangue prior to fine comminution.



21: 2020/00071. 22: 2020/01/06. 43: 2021/09/02

51: E04B; E04H

71: GLOBE HOUSING APS

72: BORGSTRØM, Allan

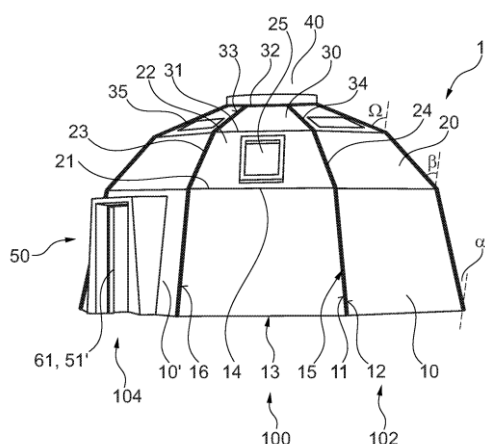
33: DK 31: PA 2017 70442 32: 2017-06-07

54: BUILDING SYSTEM

00: -

Building system for erecting standardized buildings where the system comprises four types of base components: a. A first type of wall panels having a first trapezoid shape, such that a base and a top edge are parallel, where the base and top edge are

connected by straight sides; b. A first type of roofing panel having a second trapezoid shape, such that a base edge and a top edge are parallel, where the base and top edge are connected by straight sides; c. A second type of roofing panel having either a second trapezoid shape where a base edge is parallel to a top edge where the base and top edge are connected by sides, or where said second type of roofing panel has a triangular shape, comprising a base edge and two side edges meeting in an apex; d. A third type of roofing panel being substantially flat and having a polygonal circumference, adapted to in use being placed and cover either the top edges or apexes of adjacent second type roofing panels; where the length of the top edge of the first type of wall panel is equal to the base edge of the first type of roofing panel, and where the top edge of the first type of roofing panel is equal in length to the base edge length of the second type of roofing panel.



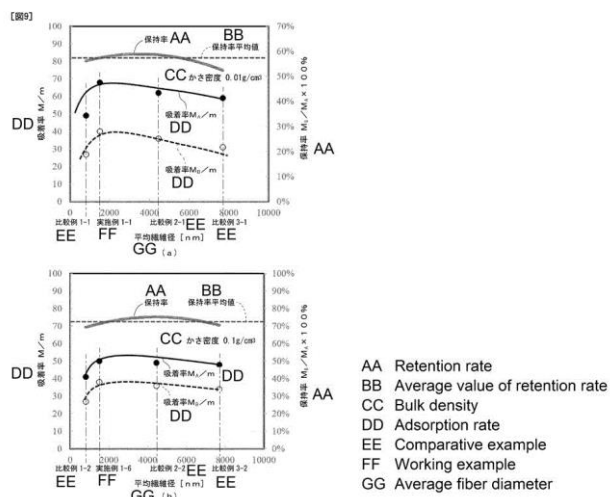
21: 2020/00079. 22: 2020/01/07. 43: 2021/09/02
51: A01H; C12N; C12Q
71: Institute Of Cotton Research, Chinese Academy Of Agricultural Sciences
72: Wei, CHEN, Yongshan, ZHANG, Jinbo, YAO, Yan, LI, Shengtao, FANG
33: CN 31: 2019100120275 32: 2019-01-07
54: COTTON LINT PERCENTAGE MOLECULAR MARKER AND APPLICATION THEREOF
00: -

The present invention discloses a cotton lint percentage molecular marker and its application. The cotton lint percentage molecular marker disclosed by the invention is a1) or a2): a1) a nucleotide in the cotton genome corresponding to

position 310 of SEQ ID NO: 1 in the sequence listing, and the cotton lint percentage molecular marker is T or A; a2) a DNA fragment containing the cotton lint percentage molecular marker according to a1). The cotton lint percentage molecular marker and its primers provided by the present invention can quickly identify high lint percentage cotton lines. The identification method is simple and practical, and the identification result is accurate and reliable. Therefore, the cotton lint percentage molecular marker and its primers provided by the present invention can quickly and effectively assist in cotton breeding and play a decisive role in promoting the breeding process.

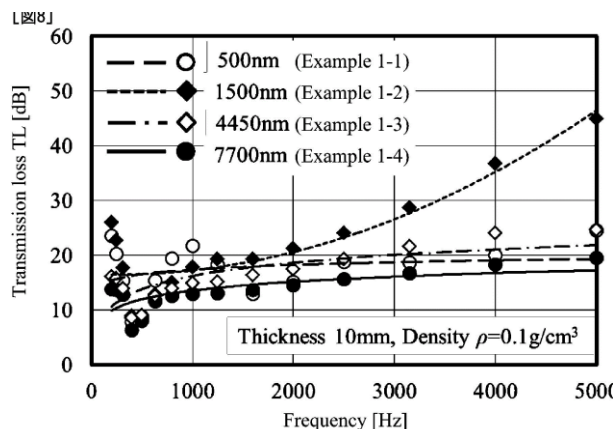
21: 2020/00081. 22: 2020/01/07. 43: 2021/09/09
51: B01J; D04H; G01N
71: M-TECHX INC.
72: SOTA, Hiroyoshi, IKEGAYA, Morihiko, URABE, Kenichi, ECHIZENYA, Takatsugu, HIROGAKI, Toshiki, WU, Wei, ISHII, Yoshiaki
33: US 31: 62/527,761 32: 2017-06-30
54: NANOFIBER AGGREGATE FOR FAT ADSORPTION, METHOD FOR ESTIMATING FAT ADSORPTION RATE OF NANOFIBER AGGREGATE FOR FAT ADSORPTION, AND METHOD FOR ESTIMATING VOLUME OF NANOFIBER AGGREGATE FOR FAT ADSORPTION FOLLOWING FAT ADSORPTION
00: -

[Problem] To provide a nanofiber laminate for fat adsorption having an effectively increased adsorption rate while maintaining the rate of oil adsorption, as well as a method for estimating the fat adsorption rate of a nanofiber aggregate for fat adsorption and a method for estimating the volume of a nanofiber aggregate for fat adsorption following fat adsorption. [Solution] A nanofiber aggregate 1 for fat adsorption has an average fiber diameter d between 1,000 nm and 2,000 nm, inclusive, and a bulk density ρ_b between 0.01 g/cm³ and 0.2 g/cm³, inclusive. The nanofiber aggregate 1 for fat adsorption can effectively increase the adsorption rate while maintaining the rate of fat adsorption.



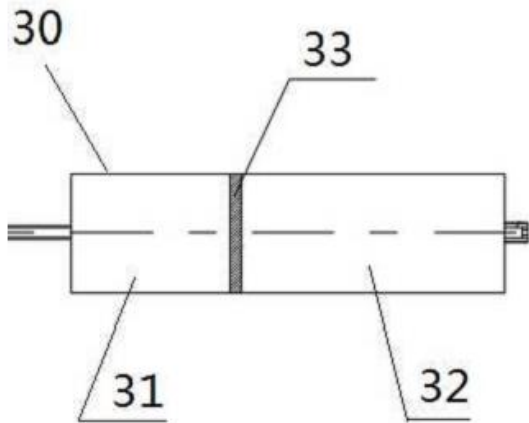
21: 2020/00082. 22: 2020/01/07. 43: 2021/09/06
 51: B32B; B60R; G10K
 71: M-TECHX INC.
 72: SOTA, Hiroyoshi, IKEGAYA, Morihiko, URABE, Kenichi, ECHIZENYA, Takatsugu, HIROGAKI, Toshiki, WU, Wei, ISHII, Yoshiaki
 33: US 31: 62/527,761 32: 2017-06-30
54: FIBER AGGREGATE FOR SOUND INSULATION, SOUND ABSORBING/INSULATING MATERIAL, AND SOUND ABSORBING/INSULATING MATERIAL FOR VEHICLE

00: -
 [Problem] To provide a fiber aggregate for sound insulation that is able to effectively insulate sound by a simple structure, a sound absorbing/insulating material and a sound absorbing/insulating material for a vehicle that comprise this fiber aggregate for sound insulation. [Solution] This fiber aggregate for sound insulation has a mean fiber diameter of 450-8500 nm and a bulk density of 0.09-0.33 g/cm³. It is particularly desirable that the fiber aggregate for sound insulation have a mean fiber diameter of 450-1650 nm and a bulk density of 0.09-0.22 g/cm³. The fiber aggregate for sound insulation is lightweight and can effectively provide sound insulation performance by satisfying these numeric ranges.



21: 2020/00143. 22: 2020/01/09. 43: 2020/09/10
 51: C22B; F27B
 71: CHINA ENFI ENGINEERING CORPORATION
 72: LI, Dongbo, LU, Zhifang, LI, Bing, LIANG, Shuaibiao, WEI, Kejian, LIU, Cheng, LI, Min, RU, Hongshun, JIANG, Jimu, CAO, Kefei, ZHANG, Haixin, YAN, Jie, LI, Feng, LU, Jinzhong, ZHOU, Gang, LIU, Kai
 33: CN 31: 201710449049.9 32: 2017-06-14
 33: CN 31: 201710449064.3 32: 2017-06-14
54: COPPER SMELTING SLAG COMPREHENSIVE RECOVERY METHOD AND DEVICE
 00: -

A copper smelting slag comprehensive recovery method and device are provided. The method uses a CR furnace to perform reductive fuming and settling on smelting slag to comprehensively recover valuable metals in the smelting slag and produce harmless slag. The CR furnace (30) includes a cavity, the cavity including a reductive fuming chamber (31) and a settling chamber (32) in communication with each other. The step of recovering valuable metals in smelting slag includes: performing a reductive fuming treatment on the smelting slag in the reductive fuming chamber (31) to obtain valuable metal smoke dust and reduced slag, and performing a settling treatment on the reduced slag in the settling chamber (32) to obtain copper matte and harmless slag; or performing a settling treatment on the smelting slag in the settling chamber (32) to obtain copper matte and settled slag, and performing a reductive fuming treatment on the settled slag in the reductive fuming chamber (31) to obtain valuable metal smoke dust and harmless slag.



21: 2020/00272. 22: 2020/01/15. 43: 2021/08/16
51: H04B

71: Huawei Technologies Co., Ltd.

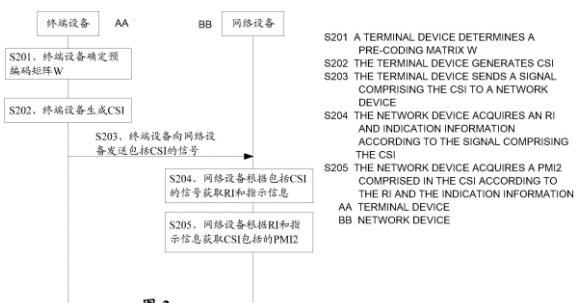
72: ZHANG, Ruiqi, LI, Xueru, ZHANG, Di

33: CN 31: 201710459616.9 32: 2017-06-16

54: CHANNEL STATE INFORMATION SENDING METHOD, CHANNEL STATE INFORMATION RECEIVING METHOD, AND DEVICE

00: -

A method and device for sending and receiving channel state information, which are used for reducing a resource overhead required by a terminal device to feed CSI back to a network device with respect to a scenario for a precoding matrix based on a high precision codebook. The method comprises: a terminal device determining a pre-coding matrix W ; the terminal device sending a signal comprising CSI to a network device; the network device acquiring an RI and indication information according to the signal comprising the CSI; the network device acquiring a PMI2 according to the RI and the indication information; and the network device determining the pre-coding matrix W according to the rank index (RI) and a second pre-coding matrix index (PMI2).



21: 2020/00306. 22: 2020/01/16. 43: 2021/07/30
51: B65D

71: Société des Produits Nestlé S.A.

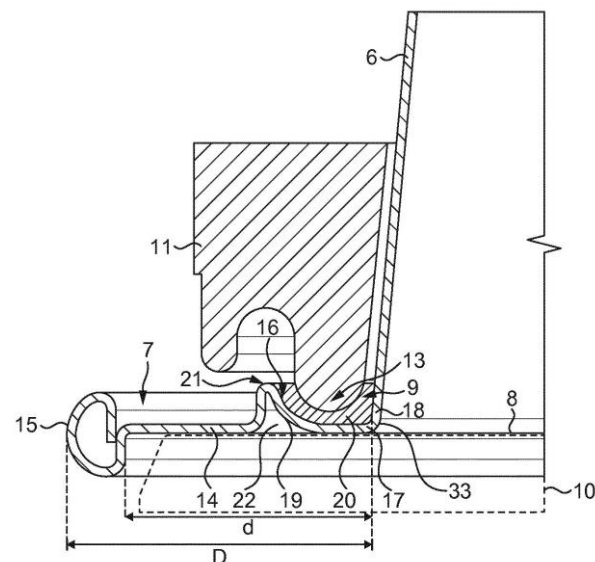
72: BAMBAGIONI, Guido, GAVILLET, Gilles, KOLLEP, Alexandre, DOLEAC, Frédéric

33: EP(CH) 31: 17177820.2 32: 2017-06-26

54: A CAPSULE AND SYSTEM FOR PREPARING A BEVERAGE FROM SUCH CAPSULE WITH A SEAL MEMBER

00: -

The invention relates to a capsule (2) for the preparation of a beverage by extracting the substance in a beverage preparation device, comprising: - an aluminium capsule body (3) with a bottom, a side wall (6) and an outwardly extending flange (7), - a cover (8) attached to the outwardly extending flange (7) and, - a sealing member (9) at the outwardly extending flange (7) for providing a water sealing contact with an enclosing member of the beverage preparation device; wherein the sealing member (9) comprises at least one annular layer of polymeric material positioned on the outwardly extending flange wherein in use in the device, the sealing member is compressed and wherein the outwardly extending flange (7) comprises an annular recess (16) with an annular bottom wall (17), and an inner projecting wall (18) and an outer projecting wall (19), both projecting walls (18, 19) extending in a direction towards the bottom of the capsule body and wherein the annular layer of polymeric material (20) is entirely contained in the annular recess (16).



21: 2020/00327. 22: 2020/01/17. 43: 2021/09/06

51: A61K

71: LOCUS IP COMPANY, LLC

72: LEFKOWITZ, Andrew R, FARMER, Sean,
ALIBEK, Ken, MOLDAKOZHAYEV, Alibek

33: US 31: 62/537,502 32: 2017-07-27

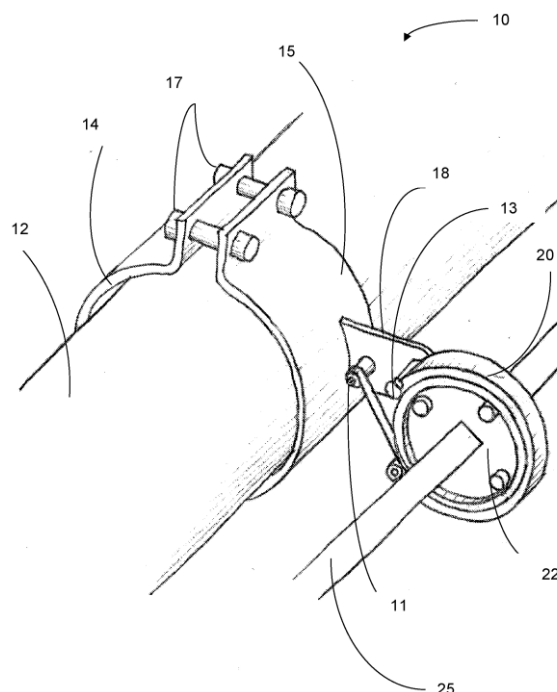
33: US 31: 62/647,974 32: 2018-03-26

33: US 31: 62/690,365 32: 2018-06-27

**54: COMPOSITIONS FOR ENHANCING
BIOAVAILABILITY OF PHARMACEUTICALS,
SUPPLEMENTS AND INGESTED SUBSTANCES**

00: -

The present invention relates to compositions and methods for enhancing bioavailability of health-promoting substances, such as pharmaceuticals and nutritional supplements. The subject invention utilizes an adjuvant composition comprising one or more microbial-produced biosurfactants and/or isoforms thereof, to enhance bioavailability of health-promoting substances and to reduce the effective dosage that is required.



21: 2020/00430. 22: 2020/01/22. 43: 2021/09/08

51: A01G; B60T; F16D

71: Valmont Industries, Inc.

72: DILLON, Cory J.

33: US 31: 62/548,294 32: 2017-08-21

**54: SYSTEM AND METHOD FOR PROVIDING
DRIVE SHAFT BRAKING FOR IRRIGATION
MACHINES**

00: -

A system and method for providing drive shaft braking for an irrigation machine includes a system for providing drive shaft braking during the operation of an irrigation machine where the irrigation machine includes a drive system having a drive motor and a drive shaft. The system preferably includes a cam attached to the drive shaft, an extension arm having a first securing point, a securing arm having a second securing point and a spring attached between the first securing point and the second securing point. The system preferably further includes a follower mechanism secured to the extension arm, which applies continual frictional pressure to the drive shaft in response to the force applied by the spring to the follower through the extension arm. According to a further preferred embodiment, the present invention functions to hold the drive shaft in place when rotational force is not actively applied to the drive shaft by the drive motor.

21: 2020/00434. 22: 2020/01/22. 43: 2021/08/16

51: H04L

71: TELEFONAKTIEBOLAGET LM ERICSSON
(PUBL)

72: FALCONETTI, LAETITIA, SUNDBERG,
MÅRTEN

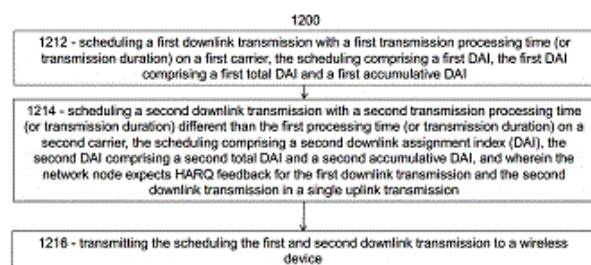
33: US 31: 62/544,627 32: 2017-08-11

**54: DOWNLINK ASSIGNMENT WITH DIFFERENT
PROCESSING TIMES**

00: -

According to some embodiments, a network node in a frequency division duplex (FDD) wireless communication network is operable to schedule a first downlink transmission with a first transmission processing time on a first frequency carrier. The scheduling comprises a first downlink assignment index (DAI). The first DAI comprises a first total DAI and a first accumulative DAI. The network node is operable to schedule a second downlink transmission with a second transmission processing time different than the first on a second frequency carrier. The scheduling comprises a second DAI. The second DAI comprises a second total DAI and a second accumulative DAI. The network node expects hybrid automatic repeat request (HARQ) feedback for the first downlink transmission and the

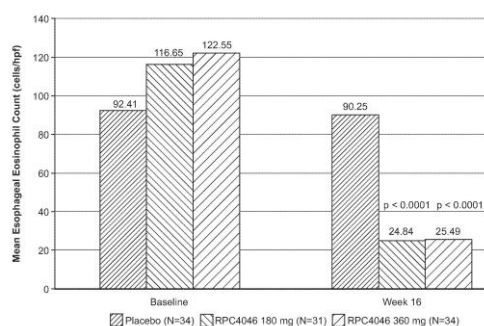
second downlink transmission in a single uplink transmission. The network node is further to transmit the scheduling for the first and second downlink transmission to a wireless device.



21: 2020/00478. 22: 2020/01/24. 43: 2021/08/03
 51: A61K; C07K
 71: AbbVie Inc.
 72: TIMONY, Gregg, GUJRATHI, Sheila, PEACH, Robert, OLSON, Allan
 33: US 31: 62/328,539 32: 2016-04-27
54: METHODS OF TREATMENT OF DISEASES IN WHICH IL-13 ACTIVITY IS DETRIMENTAL USING ANTI-IL-13 ANTIBODIES

00: -

The present invention is directed to methods for treating diseases in which IL-13 activity is detrimental, including eosinophilic esophagitis (EoE) and asthma, by administering to a subject in need of such treatment, a composition containing an interleukin- 13 (IL-13) antibody, or an antigen binding fragment, thereof.



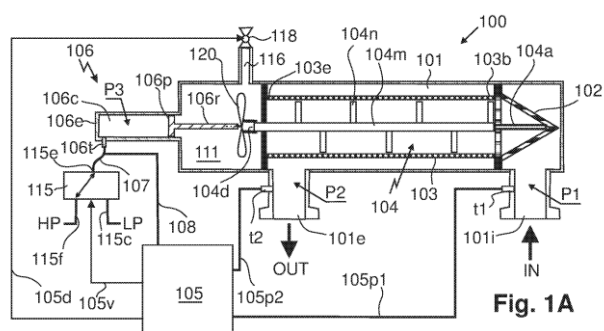
21: 2020/00495. 22: 2020/01/24. 43: 2021/09/10
 51: B21C; B29C
 71: ISINNOVA S.R.L.
 72: MASSARI, Marco, TORTELLI, Matteo, TORTELLI, Marco, FRACASSI, Cristian
 33: IT 31: 102017000080011 32: 2017-07-14
54: METHOD FOR CLEANING AN EXTRUSION DIE
 00: -

A method to clean an extrusion die (M) from the residual metal (A) that remains therein after one or more extrusion processes at a temperature below 600 °C and to recover the residual metal thereof (A). The method comprises the steps of: providing a thrust member (1) with at least one portion (2) made of polymeric material in correspondence of the extrusion die (M); reciprocal moving of the thrust member (1) and of the die (M); removal of the polymeric material not flowed out from the die (M) during the latter step; mechanic and/or by chemical agent removal of the residual metal (A) not flowed out from the die (M) during the moving step; opening of the extrusion die (M). The polymeric material upon the moving step has a water content lower than 7% by weight with respect to the total weight of the polymeric material. During the moving step, the polymeric material is at least partially in a plastic deformation condition or melted so as to occupy the volume of the residual metal flowed out from the extrusion die (M).

21: 2020/00531. 22: 2020/01/27. 43: 2021/09/10
 51: B01D
 71: AMIAD WATER SYSTEMS LTD.
 72: EISEN, Amir, PELED, Roi, ATIAS, Kfir
 33: IL 31: 258698 32: 2018-04-15
54: CONTROL MECHANISM FOR SELF-CLEANING FILTRATION SYSTEMS
 00: -

A control mechanism for self-cleaning filtration systems. One embodiment is a controller for a filtration system that comprises a suction scanner and a screening element having modifiable respective locations therebetween. The controller comprises an input terminal for receiving a relative location signal and additional a differential pressure input terminal. The controller monitors differential pressure and outputs an activation signal after the differential pressure has exceeded a threshold value. The controller outputs a termination signal based on the relative location signal. Another embodiment is a filtration system that comprises: a screening element located within a filtration chamber, and a suction scanner for self-cleaning thereof. A location tracker communicates to a switching mechanism during self-cleaning sessions a signal indicative of a location of the suction scanner with respect to the screening element. The

switching mechanism automatically terminates self-cleaning sessions based on the signal.



21: 2020/00558. 22: 2020/01/28. 43: 2021/09/06
51: A61K; A61P

71: HOWARD FOUNDATION HOLDINGS LTD

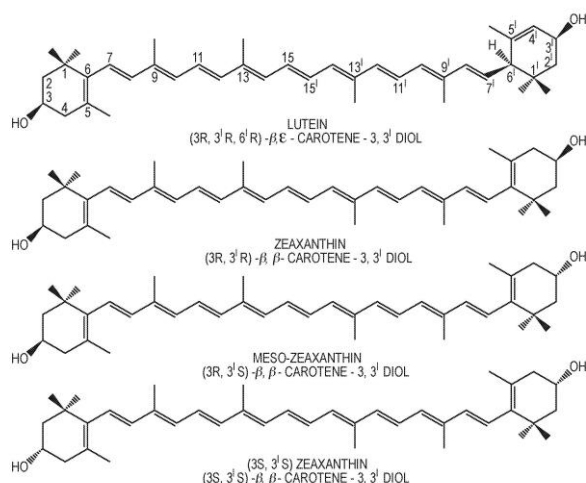
72: HOWARD, Alan, Norman, NOLAN, John,
MULCAHY, Riona

33: GB 31: 1720119.5 32: 2017-12-04

54: PREVENTION AND/OR TREATMENT OF NEURODEGENERATIVE DISEASE

00: -

A composition comprising at least one carotenoid selected from the group consisting of lutein, zeaxanthin and meso-zeaxanthin; and a composition comprising at least one omega-3 fatty acid; for use in the prevention and/or treatment of dementia in a human subject.



21: 2020/00572. 22: 2020/01/29. 43: 2021/09/03
51: E05B

71: TRIGEND (PTY) LTD

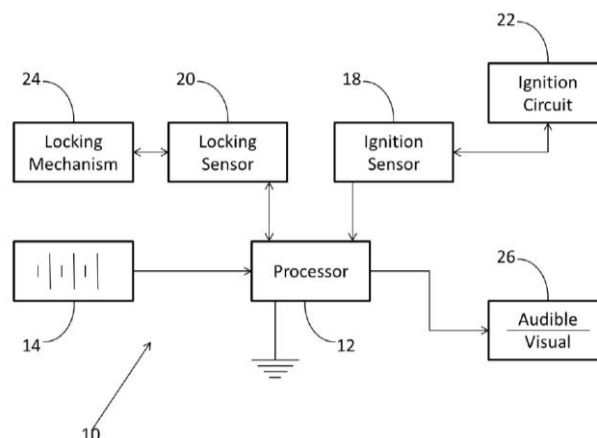
72: MILLER, Michael Graham

33: ZA 31: 2019/00587 32: 2019-01-29

54: VEHICLE LOCKING MECHANISM MONITORING DEVICE

00: -

A device for monitoring the status of a locking mechanism of a vehicle, wherein the vehicle can be placed in an operative state and an inoperative state and wherein the locking mechanism is actuatable to be active or inactive, the device including a timer, a first sensor for monitoring the vehicle status which, when the vehicle status is changed from operative to inoperative, initiates the timer to execute a timing interval, a second sensor to monitor the status of the locking mechanism, and to cause activation of an enunciator to emit a status signal depending on whether the locking mechanism was actuated or not before the end of the timing interval.



21: 2020/00584. 22: 2020/01/29. 43: 2021/09/06
51: A01D

71: KOKANOVIC, Momcilo

72: KOKANOVIC, Momcilo

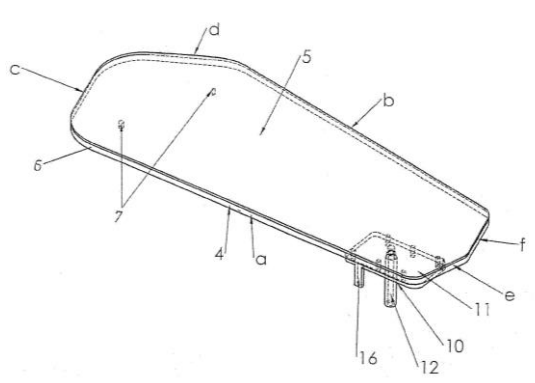
33: RS 31: P-2015/0673 32: 2017-07-03

54: PNEUMATIC CUSHIONS FOR SOFT RECEPTION OF HARVESTED FRUIT ON MECHANIZED FRUIT HARVESTING DEVICES

00: -

The invention relates to pneumatic cushions for soft reception of harvested fruit on mechanized fruit harvesters, ment to cushion the fall of harvested fruit wherein the assembly (3) consists of a plastic reception tray (4) and a rubber membrane (5), and the whole assembly (3) has a polygonal shape. The rubber membrane (5), which is most favourably made of food-grade rubber, is stretched over the upper side of the reception tray (4) and the side edges of the tray (4), and attached to the side

surfaces of the tray (4). The membrane (5) is glued around the entire side perimeter of the tray (4) and secured by means of a safety tape (6). On the part opposite to sides (c, d), on the bottom of the tray (4), are fitted blow-holes (7) for release of air from underneath the membrane (5). On the corner of the tray (4), formed by sides (a, e), is fitted a mechanism (10) for revolving connection of the tray (4) to the support (23) and to air supply pipes (20), wherein the mechanism (10) includes an axle (12) and a bushing (13) with a hole (14).



21: 2020/00668. 22: 2020/01/31. 43: 2021/07/29
 51: A61K; A61Q; C11D
 71: Croda International Plc
 72: BÉNARD, Elodie, CHAVAN, Bhaven, ROUSE, Sean Philip Nigel

33: GB 31: 1712844.8 32: 2017-08-10

54: EMULSIFIER SYSTEM, PERSONAL CARE PRODUCT, METHOD AND USE

00: -

Composition and emulsifier system comprising mixtures of alkoxyated fatty alcohols for use in emulsifying formulations, in particular formulations in personal care. In particular, the composition and emulsifier system provide emulsification under extreme conditions such as high salt content, low/high pH, or under high temperatures.

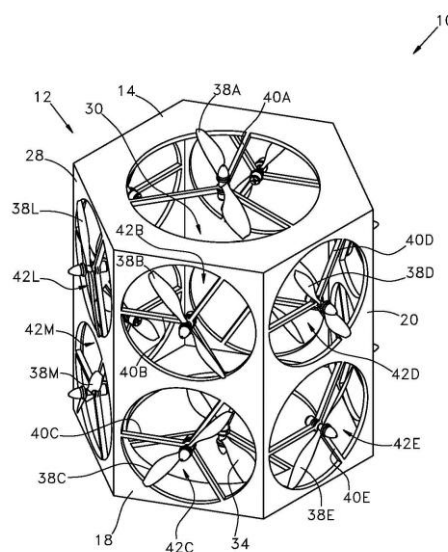
21: 2020/00786. 22: 2020/01/24. 43: 2021/07/29
 51: B64C; G05D
 71: BonaVide (Pty) Ltd
 72: LEUSCHNER, Andries Hermann
 33: ZA 31: 2017/04348 32: 2017-06-27

54: ROTARY-WING UNMANNED AERIAL VEHICLE

00: -

The invention is in respect of a rotary wing unmanned aerial vehicle (UAV) which includes an

elongate body 12. The body 12 has a top end 14 and a bottom end 16 with a plurality of flat sides extending therebetween and defining an internal cavity 30. An exhaust opening 32 and lift propeller 34 are provided at the bottom end 16 of the body 12. The UAV 10 further includes a pressurising arrangement in the form of spaced-apart openings in the sides and in the top and complementary propellers mounted therein in order to urge air through the openings into the internal cavity 30. This arrangement provides a compact UAV with high lift capabilities.



21: 2020/00787. 22: 2020/02/06. 43: 2021/09/06
 51: G01N

71: MINEX CRC LTD

72: BLAINE, Fredrick Allan, VAN DER HOEK, Benjamin Graham

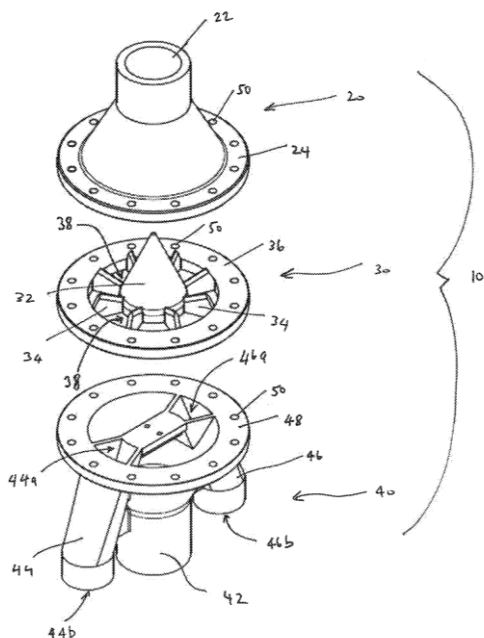
33: AU 31: 2017903541 32: 2017-09-01

54: SAMPLE COLLECTION SYSTEM AND PARTS THEREOF

00: -

The invention relates to a sample collection system for collecting sub-samples from a material stream, the system including a valve arrangement and a static cone splitter, and wherein the valve arrangement is arranged to enable operation of the static cone splitter to collect a non-biased sample of the material stream fed to the static cone splitter under first and second operational conditions, the first operational condition requiring the material stream to be at substantially atmospheric pressure

and flowing at a minimum functional flow rate, and the second operational condition requiring the material stream to be pressurised above atmospheric pressure and at a flow rate higher than the minimum functional flow rate. The invention also relates to a static cone splitter for use with the system, together with a cone member for use with the static cone splitter.



21: 2020/00813. 22: 2020/02/07. 43: 2021/08/16
51: C12Q; C12N

71: CORSHAM SCIENCE LIMITED
72: HASSEL, TAMRYN JO, MASSEY, RUTH
CATHERINE, BACON, LEANN FRANCIS
33: EP 31: 17185252.8 32: 2017-08-08

54: METHOD FOR DETECTING A MICROORGANISM IN A SAMPLE

00: -

The present invention provides a method for detecting a microorganism in a sample, the method comprising : a) filtering a sample through a filter to entrap any microorganisms present in the sample; b) treating the filter to release genomic material or DNA from the entrapped microorganisms; c) amplifying the genomic material or DNA released from the entrapped microorganisms; and d) identifying specific regions of the genomic material or DNA to determine the presence, identify the species or

quantify the approximate number of any entrapped microorganisms.

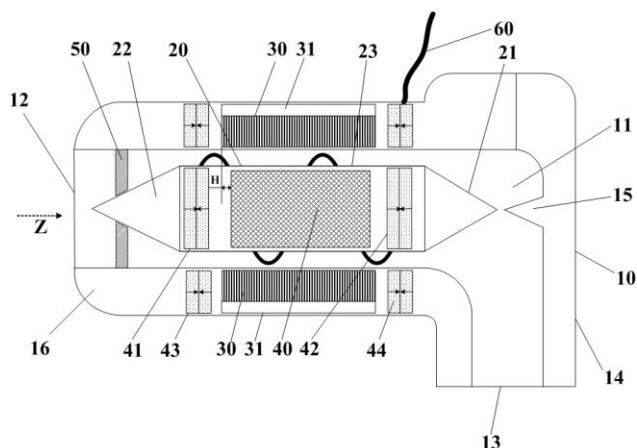
21: 2020/01013. 22: 2020/02/18. 43: 2021/09/10
51: A61M

71: ROCKETHEART TECHNOLOGY CO. LTD
72: XU, Jian, FAN, Qinglin, WU, Wenjin, ZHANG, Xuman, HAN, Zhifu, SONG, Guogang, DAI, Ying
33: CN 31: 201710756110.4 32: 2017-08-29

54: BLOOD PUMP DEVICE

00: -

Disclosed is a blood pumping device, comprising: a housing (10) having an overflow passage (11), and an inlet (12) and an outlet (13) respectively connected to the overflow passage (11); a rotor assembly (20) rotatably arranged in the overflow passage (11); a coil (30) arranged in a side wall of the housing (10); a first permanent magnet part (42) arranged inside the rotor assembly (20); a second permanent magnet part (44) arranged in the side wall of the housing (10), with the first permanent magnet part (42) and the second permanent magnet part (44) forming a radial permanent magnetic bearing; a piece of electric motor magnetic steel (40) arranged inside a rotor of the rotor assembly (20); and a magnetic protection part (31) arranged at the periphery of the coil (30), wherein the magnetic protection part (31) and the piece of electric motor magnetic steel (40) act together to provide an axial pre-tightening force for the rotor assembly (20). The blood pumping device provides a radial support force for the rotor assembly (20) by using the radial permanent magnetic bearing, and provides the axial pre-tightening force for the rotor assembly (20) by means of the combined action of the magnetic protection part (31) and the piece of electric motor magnetic steel (40) so as to support the rotor assembly (20) in the axial direction.



21: 2020/01041. 22: 2020/02/19. 43: 2021/08/03
51: C07C

71: LUNELLA BIOTECH, INC.

72: LISANTI, MICHAEL P, SOTGIA, FEDERICA

33: US 31: 62/471,688 32: 2017-03-15

54: MITORIBOSCINS: MITOCHONDRIAL-BASED THERAPEUTICS TARGETING CANCER CELLS, BACTERIA, AND PATHOGENIC YEAST

00: -

The present disclosure relates to inhibitors of mitochondrial function. Methods of screening compounds for mitochondrial inhibition are disclosed. Also described are methods of using mitochondrial inhibitors called mitoriboscins, namely mitoribosporin - mitochondrial-based therapeutic compounds having anti-cancer and antibiotic properties - to prevent or treat cancer, bacterial infections, and pathogenic yeast, as well as methods of using mitochondrial inhibitors to provide anti-aging benefits.

21: 2020/01079. 22: 2020/02/20. 43: 2021/09/09
51: F16K

71: APEX VALVES LIMITED

72: David Gordon Arthur CRICHTON

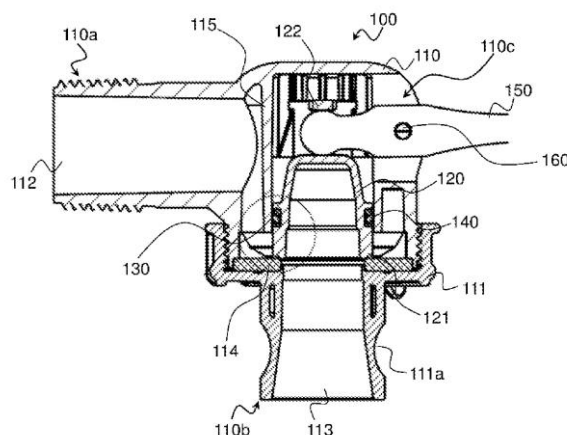
33: NZ 31: 740296 32: 2018-02-27

54: SEALING ARRANGEMENT

00: -

A liquid control valve including a body comprising an inlet port, an outlet port, and an interior chamber, the body defining a liquid passageway between the inlet and outlet ports. Also included is a plunger comprising a groove provided on an external wall, the plunger being configured to reciprocate within the interior chamber of the body between a first position where the valve is closed and a second position where the valve is open. Also provided is a

sealing arrangement within the groove configured to seal between the plunger and the interior chamber of the body. The sealing arrangement includes a first sealing element on the external wall of the plunger and spaced apart from an inner wall of the internal chamber, and a second sealing element on the inner wall of the internal chamber and spaced apart from the external wall of the plunger.



21: 2020/01163. 22: 2020/02/25. 43: 2021/09/06
51: E04H

71: COCHRANE GULF FZE

72: BUCARIZZA, Vlado

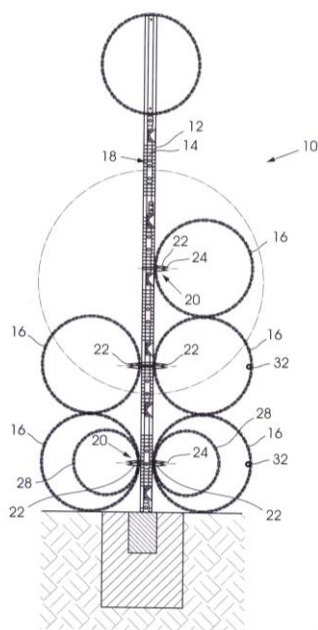
33: ZA 31: 2019/08132 32: 2019-12-09

33: ZA 31: 2019/08284 32: 2019-12-11

54: FENCE

00: -

A fence which includes a plurality of vertically extending, spaced apart posts, a plurality of fence panels which are secured to the posts, each panel comprising a sheet of mesh material, a plurality of deterrent coil structures secured to at least one face of each fence panel and at least one fastener for securing the respective coil structure to the fence panel.



21: 2020/01168. 22: 2020/02/25. 43: 2021/09/06
51: A24F
71: CHINA TOBACCO YUNNAN INDUSTRIAL CO., LTD

72: ZENG, Xu, TANG, Jianguo, LEI, Ping, SHANG, Shanzhai, YUAN, Dalin, ZHENG, Xudong, HAN, Jingmei, LI, Zhiqiang, WANG, Chengya, WANG, Ru, GONG, Yupeng, GONG, Weimin, SHI, Kunrong, TAN, Zhihong, CHEN, Yongkuan

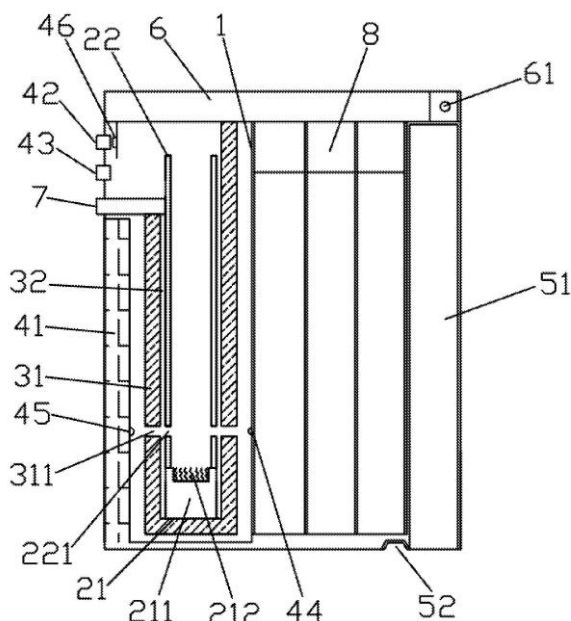
33: CN 31: 201710814141.0 32: 2017-09-11

54: DEVICE CAPABLE OF AUTOMATICALLY LIGHTING OR HEATING CIGARETTE

00: -

A device capable of automatically lighting or heating a cigarette, comprising a heat source system, a control system, and an openable and closeable top cover (6); the heat source system comprises an electric heating cavity (22) and an lighter (21), the lighter (21) having an electric heating member (212), and the electric heating cavity (22) having at least one pair of electric heating cavity light passing holes (221); the control system comprises a control electric board (41), a mechanical switch (42), a mode switching switch (43), an infrared light source (44), a light sensing switch (45), and a main device circuit switch (46); the mechanical switch (42) controls the top cover (6) to open or close and controls the main device circuit switch (46) to turn on or off; the mode switching switch (43) is used for switching between lighter (21) operation and electric heating cavity (22) operation; the infrared light source (44), the light

sensing switch (45), and the electric heating cavity light passing holes (221) are arranged on the same straight line; the light sensing switch (45) controls the lighter (21) or the electric heating cavity (22) to be powered on or not.



21: 2020/01244. 22: 2020/02/27. 43: 2021/08/16
51: C05G; C05D

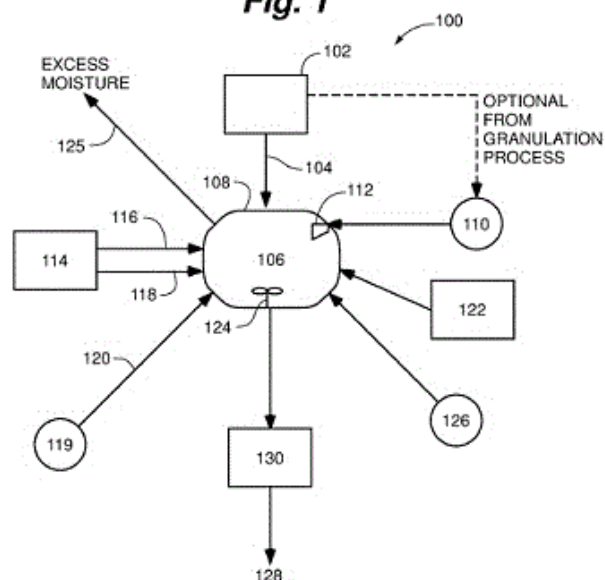
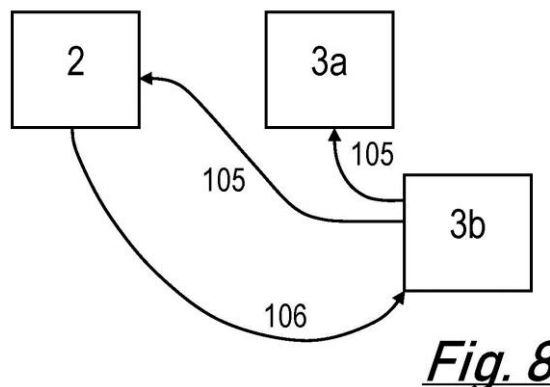
71: THE MOSAIC COMPANY

72: MCLAUGHLIN, MICHAEL JOHN, DEGRYSE, JOZEFIE LOUISA ELVIRE, BAIRD, ROSLYN JANE, DA SILVA, RODRIGO COQUI, BAYLOR, BRYAN TODD, PEACOCK, LAWRENCE ALAN
33: US 31: 62/204,195 32: 2015-08-12

54: ACID TREATMENT FOR FERTILIZERS TO INCREASE ZINC SOLUBILITY AND AVAILABILITY

00: -

Methods and system for increasing the water solubility and availability of zinc in granular fertilizers using acid treatments. The treatment of granular fertilizers with an acidic solution increases an amount of water-soluble zinc, which in turn, increases the efficiency of zinc uptake and reduces the costs and equipment otherwise needed to mitigate zinc deficiencies.

Fig. 1**Fig. 8**

21: 2020/01245. 22: 2020/02/27. 43: 2021/09/06

51: H04W

71: TEXECOM LIMITED

72: ALEXANDER, Peter, BROWN, Clym

33: GB 31: 1714246.4 32: 2017-09-05

54: IMPROVED ZONING CONFIGURATION IN A MESH NETWORK

00: -

A wireless mesh network comprises a controller and a plurality of wireless networked devices arranged to transmit messages to and receive messages from the controller. The plurality of networked devices are arranged in zones, such that a device that is arranged to communicate directly with the controller is designated a "Zone 1" device and a device that is arranged to communicate with the controller via a "Zone 1" device is designated a "Zone 2" device. One or more of each of the plurality of devices periodically sends a positioning message to the controller to determine its zone and if it is able to communicate directly with the controller it determines that it is a "Zone 1" device and if it is not able to communicate directly with the controller, but it is able to communicate with the controller via a "Zone 1" device and therefore arranged to do so, it determines that it is a "Zone 2" device.

21: 2020/01246. 22: 2020/02/27. 43: 2021/09/06

51: A01H; A24D; D21H

71: BRUNSON, Michael, A.

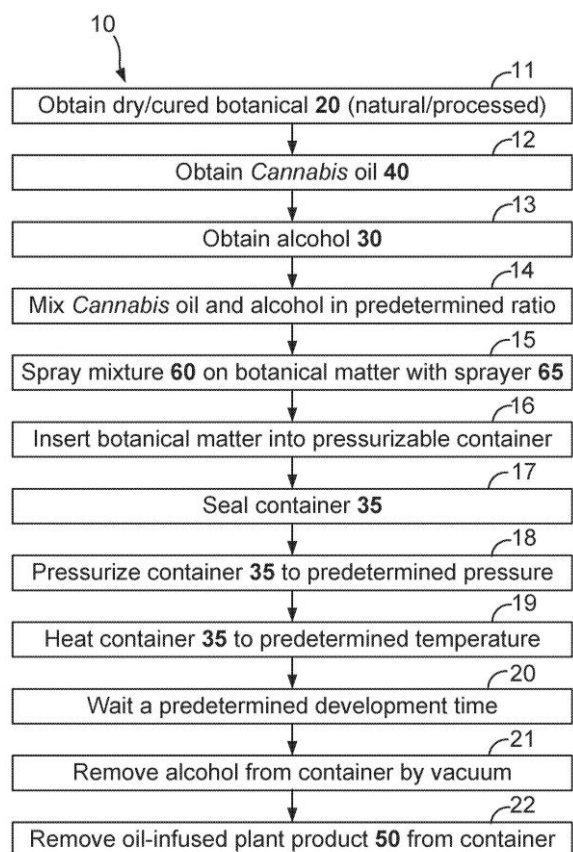
72: BRUNSON, Michael, A.

33: US 31: 62/559,255 32: 2017-09-15

54: PLANT PRODUCT INFUSED WITH OIL DERIVED FROM PLANTS OF THE CANNABIS GENUS AND METHOD OF INFUSION

00: -

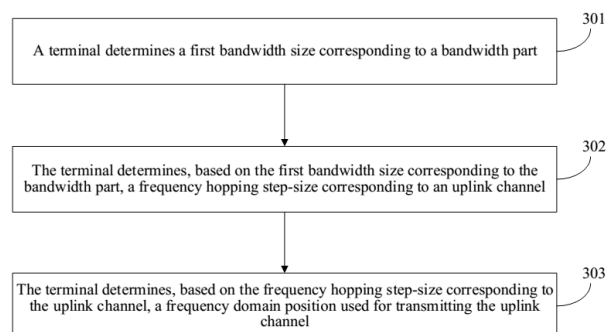
A Cannabis oil-infused plant product and method of infusing is provided. The method includes placing dried botanical matter and an alcohol and Cannabis oil mixture into a pressurizable container, pressurizing and heating the pressurizable container, allowing the botanical matter and oil/alcohol mixture to remain in the container for a development time period while the oil is drawn into the botanical matter, and removing the oil/alcohol mixture via a vacuum. The botanical matter may be a processed plant matter, such as a blunt wrapper, or may be a natural or minimally processed plant matter, such as Cannabis plant matter, dried smokable herbs, or dried herbs suitable for brewing (such as tea, coffee, and herbal tea components). The Cannabis oil may be any oil derived from plants of the genus Cannabis, such as a hash oil or a hemp oil.



21: 2020/01287. 22: 2020/02/28. 43: 2021/09/10
 51: H04B; H04W
 71: GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
 72: LIN, Yanan
 33: WO 31: PCT/CN2017/101093 32: 2017-09-08
 33: WO 31: PCT/CN2018/083985 32: 2018-04-20
 33: WO 31: PCT/CN2018/096867 32: 2018-07-24
54: METHOD AND APPARATUS FOR DETERMINING FREQUENCY HOPPING OF CHANNEL, AND COMPUTER STORAGE MEDIUM
 00: -

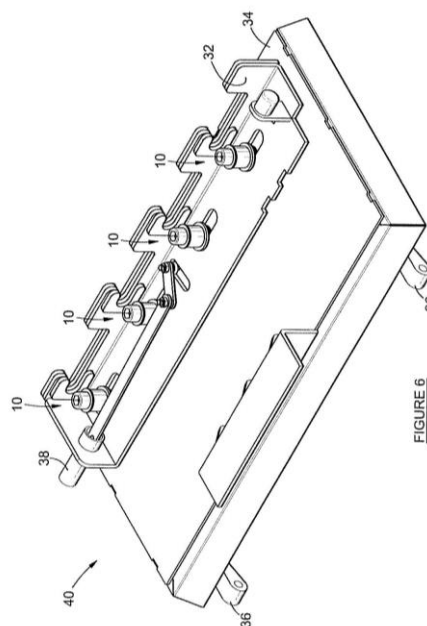
Disclosed are a method and apparatus for determining frequency hopping of a channel, and a computer storage medium. The method includes: a terminal determining a first bandwidth size corresponding to a bandwidth segment, with the first bandwidth size corresponding to the bandwidth part being less than or equal to a carrier bandwidth size; the terminal determining, based on the first bandwidth size corresponding to the bandwidth segment, a frequency hopping step length corresponding to an uplink channel; and the terminal determining, based on the frequency hopping step length corresponding to the uplink channel, a

frequency-domain position for transmitting the uplink channel.



21: 2020/01349. 22: 2020/03/03. 43: 2021/09/09
 51: E05C; E05G
 71: GUNNEBO SOUTH AFRICA (PTY) LIMITED
 72: SMITH, David John
 33: ZA 31: 2019/01583 32: 2019-03-14
54: ENERGY ABSORBING DEVICE
 00: -

The present invention relates to an energy absorbing device for use in secure enclosures, the device comprising an elongate body having a first and second end and adapted to resist movement of the first and second ends until subjected to an explosive force originating from the interior of the secure enclosure. The present invention further relates to an energy absorbing connector for use in a blast resistant security door for a safe and similar type secure enclosures.



21: 2020/01373. 22: 2020/03/04. 43: 2021/08/03
 51: C07F
 71: GALERA LABS, LLC
 72: KEENE, JEFFERY L, SCHALL, OTTO F, RILEY, DENNIS P

33: US 31: 62/203,761 32: 2015-08-11
54: PENTAAZA MACROCYCLIC RING COMPLEXES POSSESSING ORAL BIOAVAILABILITY

00: -
 Aspects of the present disclosure relate to compounds which have enhanced oral bioavailability. A transition metal complex includes a transition metal coordinated by a macrocycle comprising the pentaaza 15-membered macrocyclic ring corresponding to Formula A and two axial ligands having the formula $-OC(O)X_1$ (Formula A) each of the two axial ligands has the formula $-OC(=O)X_1$ wherein each X_1 is independently substituted or unsubstituted phenyl or $-C(X_2)(-X_3)(-X_4)$; each X_2 is independently substituted or unsubstituted phenyl, or substituted or unsubstituted alkyl; each X_3 is independently hydrogen, hydroxyl, alkyl, amino, $-X_5C(=O)R_{13}$ where X_5 is NH or O, and R_{13} is C_1 - C_{18} alkyl, substituted or unsubstituted aryl or C_1 - C_{18} aralkyl, or $-OR_{14}$, where R_{14} is C_1 - C_{18} alkyl, substituted or unsubstituted aryl or C_1 - C_{18} aralkyl, or together with X_4 is $(=O)$; and each X_4 is independently hydrogen or together with X_3 is $(=O)$.

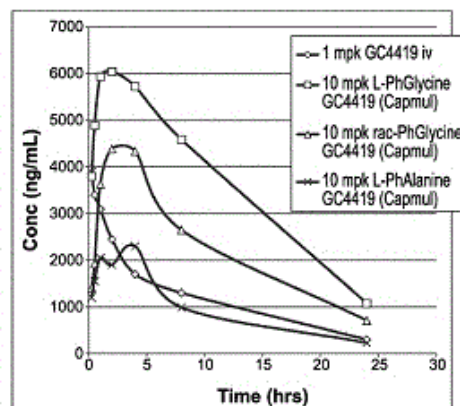
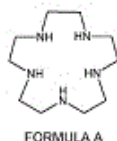


FIG. 1



21: 2020/01388. 22: 2020/03/04. 43: 2021/09/06
 51: G06Q
 71: SITA INFORMATION NETWORKING COMPUTING UK LIMITED
 72: GUIOL, Pierre Marie Jean, SANGLIER, Adrien
 33: GB 31: 1808633.0 32: 2018-05-25
54: BAGGAGE DELIVERY SYSTEM AND METHOD

00: -
 A system and method of delivering a bag to a final destination are described. The system receives a customer request to re-route the bag, the customer request including a final destination and a unique identifier associated with customer-related information. The system identifies the bag based on the customer-related information and re-routes the bag from a first destination to a further destination. The system sends a delivery request to a delivery service provider for the bag to be delivered from the further destination to the final destination.

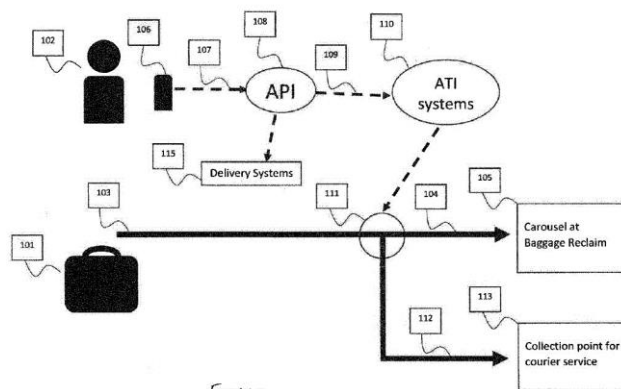


FIGURE 1

21: 2020/01535. 22: 2020/03/11. 43: 2021/09/09
 51: C23C; C25D
 71: ARCELORMITTAL
 72: Anirban CHAKRABORTY, Hassan GHASSEMI-ARMAKI
 33: IB 31: PCT/IB2017/001282 32: 2017-10-24
54: A METHOD FOR THE MANUFACTURE OF A COATED STEEL SHEET

00: -
 The present invention relates a method for the manufacture of a coated steel sheet.

21: 2020/01536. 22: 2020/03/11. 43: 2021/10/08
 51: C02F
 71: ARCELORMITTAL

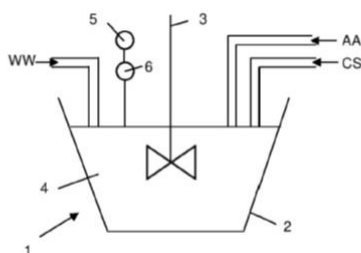
72: Patricia GOMEZ LEIVA, Vanesa MENENDEZ DELMIRO, Beatriz PADILLA VIVAS

33: IB 31: PCT/IB2017/057927 32: 2017-12-14

54: METHOD FOR THE TREATMENT OF WASTEWATERS

00: -

A method for the treatment of wastewaters comprising a cyanide compound and a metallic compound, wherein said wastewaters are subjected to a single oxidation step during which cyanides compounds are converted into carbon dioxide and nitrogen, this oxidation step comprising the mixing of wastewaters with a chlorine solution and an alkaline agent so as to obtain a mixture, the alkaline agent being added in such a quantity so as to maintain the pH of said mixture between 8.8 and 9.5 and the chlorine solution being added in such a quantity so as to maintain the oxydo-reduction potential of the mixture between 150 and 450mV.



21: 2020/01544. 22: 2020/03/11. 43: 2021/08/16

51: A61K; B01F

71: FERRING INTERNATIONAL CENTER S.A.

72: RÖNNBACK, ROBERT, SAUNIER, JOSSELIN

33: EP 31: 17191652.1 32: 2017-09-18

54: MANUFACTURING OF PHARMACEUTICAL COMPOSITIONS

00: -

The present disclosure discloses a process for the continuous manufacture of a liquid pharmaceutical composition, the process comprising providing a mixing unit, feeding a therapeutic agent and a liquid vehicle to the mixing unit, operating the latter thereby mixing the agent and the vehicle into a liquid pharmaceutical composition, discharging the composition into a holding unit.

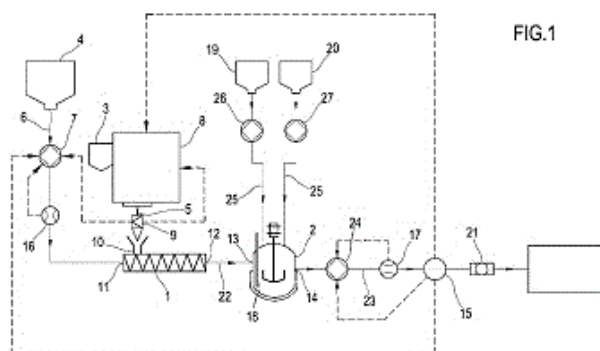


FIG.1

21: 2020/01548. 22: 2020/03/11. 43: 2021/08/03

51: A61K; A61P; C07K

71: Eisai R&D Management Co., Ltd., UCL Business Ltd

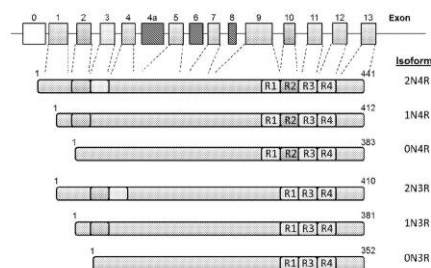
72: ROBERTS, Malcolm Ian, STADDON, James Martin, DE SILVA, Hettihewage Alfred Rohan, SPIDEL, Jared, AOYAGI, Hirofumi, AKASOFU, Shigeru, HASHIZUME, Yutaka, AGARWALA, Kishan

33: US 31: 62/572,910 32: 2017-10-16

54: ANTI-TAU ANTIBODIES AND USES THEREOF

00: -

Provided herein are antibodies that specifically bind Tau and methods of using the same.



21: 2020/01551. 22: 2020/03/11. 43: 2021/03/11

51: G10D

71: WELCH, Samuel, Justin

72: WELCH, Samuel, Justin, AUPELL, Patrick, B

33: US 31: 62/560,060 32: 2017-09-18

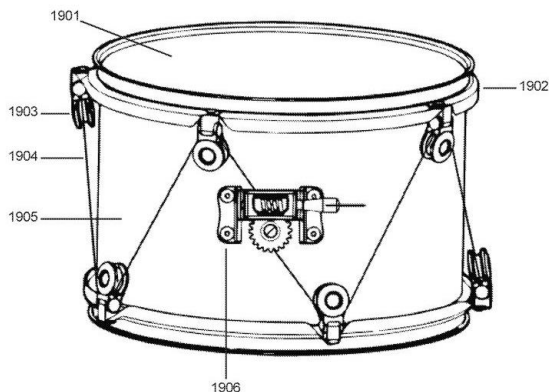
33: US 31: 16/120,866 32: 2018-09-04

54: TENSIONING SYSTEM FOR VIBRATING MEMBRANES

00: -

A cable and pulley or guide apparatus for accurately tuning and securing a tunable vibrating membrane on a cylindrical shell by means of a plurality of either fixed-angle pulley or guide assemblies not parallel to the top-bottom axis of the shell, or adjustable-angle pulley or guide assemblies not parallel to the top-bottom axis of the shell, built into or attached to

purpose built hoops, attached to hoops with protruding flanges through holes or slots, or attached to a claw or hook apparatus which secures over the edge of annular hoops, through which a cable is laced and fed into the tensioning mechanism(s) to increase or decrease the tension on the cable, thus tensioning the vibrating membrane or heads against the shell, the angles of the pulley or guide assemblies adjustable to conform to the natural angle of the cable traversing the circumference of the shell.



21: 2020/01726. 22: 2020/03/18. 43: 2021/09/02
51: G10L

71: FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V.

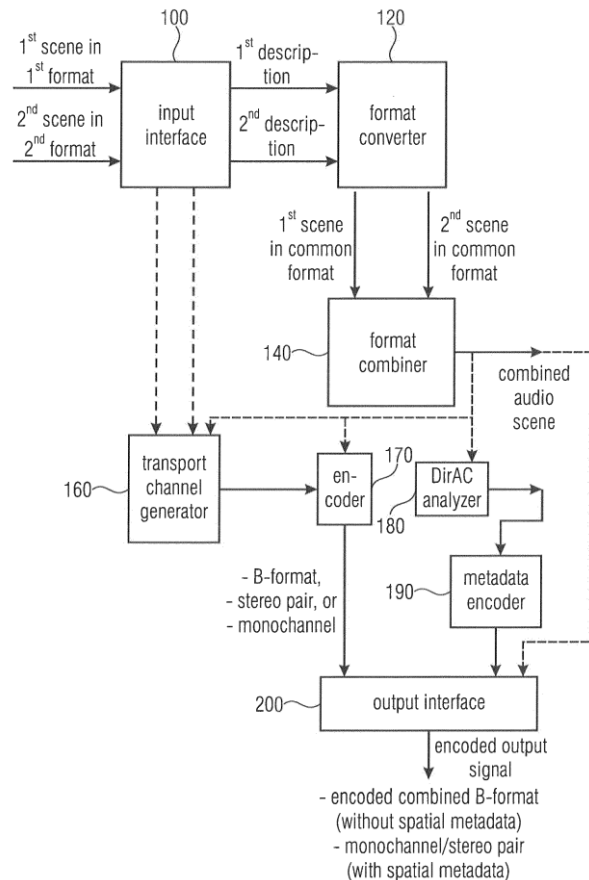
72: FUCHS, Guillaume, HERRE, Jürgen, KÜCH, Fabian, DÖHLA, Stefan, MULTRUS, Markus, THIERGART, Oliver, WÜBBOLT, Oliver, GHIDO, Florin, BAYER, Stefan, JAEGER, Wolfgang
33: EP 31: 17194816.9 32: 2017-10-04

54: APPARATUS, METHOD AND COMPUTER PROGRAM FOR ENCODING, DECODING, SCENE PROCESSING AND OTHER PROCEDURES RELATED TO DIRAC BASED SPATIAL AUDIO CODING

00: -

An apparatus for generating a description of a combined audio scene, comprises: an input interface (100) for receiving a first description of a first scene in a first format and a second description of a second scene in a second format, wherein the second format is different from the first format; a format converter (120) for converting the first description into a common format and for converting the second description into the common format, when the second format is different from the

common format; and a format combiner (140) for combining the first description in the common format and the second description in the common format to obtain the combined audio scene.



21: 2020/01738. 22: 2020/03/19. 43: 2021/09/10
51: B65D; E04H

71: ALSTOM TRANSPORT TECHNOLOGIES

72: FAUVET, Laurent, GERY, Olivier, GONZALEZ, Damien

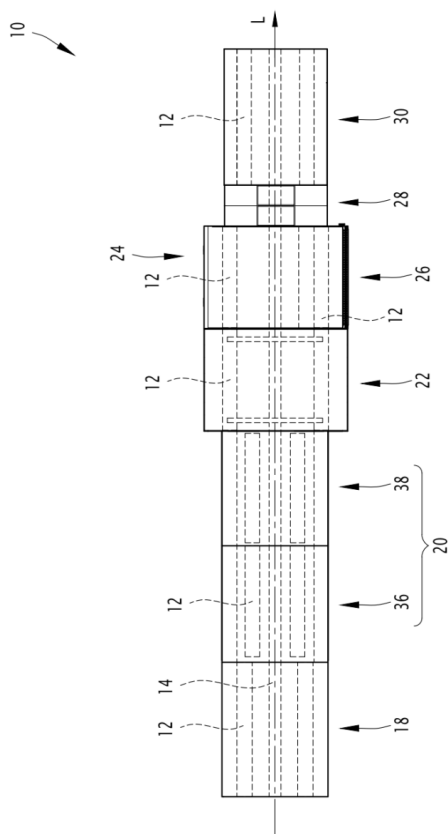
33: FR 31: 19 03080 32: 2019-03-25

54: INSTALLATION FOR MANUFACTURING A VEHICLE, NOTABLY A RAILWAY VEHICLE, CONTAINER ASSEMBLY AND METHOD FOR MOUNTING SUCH A CONTAINER ASSEMBLY FOR OBTAINING SAID INSTALLATION

00: -

The installation (10) for manufacturing a railway vehicle, the manufacturing installation (10) having a modular construction and being formed by a plurality of modules, the modules including: (a) a receiving module (18) configured to receive components of a

railway vehicle, unloaded from vehicles, in particular from road vehicles, (b) a storage module (20) configured to store components of a railway vehicle, and (c) an assembly module (22) configured to assemble components of a railway vehicle in order to manufacture said vehicle. Each module is formed by at least one container (12).



21: 2020/01739. 22: 2020/03/19. 43: 2021/09/08
51: G02B; H02G

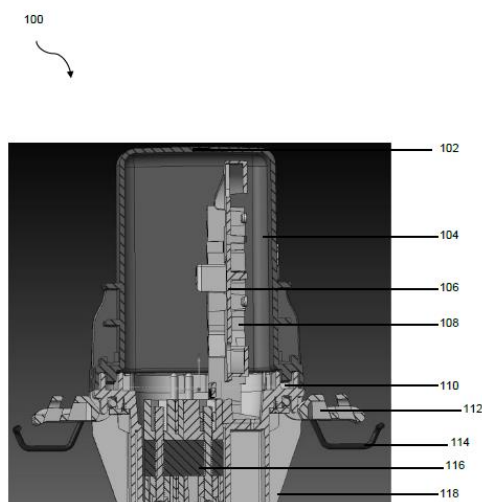
71: FRANCOIS JOHANNES JACOB, BOTHA
72: FRANCOIS JOHANNES JACOB, BOTHA,
NETO, MICAEL

54: FIBRE OPTIC SPLICE CLOSURE AND A METHOD OF ENCLOSING FIBRE OPTIC CABLES

00: -

According to a first aspect of the invention, there is provided a fibre optic splice closure, said closure including one or more of the following: a dome cover; and a dome base comprising of one access port, and an open ended oval shaped port. In an embodiment of the invention, said fibre optic splice closure includes a fibre routing tower. In this

embodiment, the fibre optic splice closure includes a fibre cable splice tray holding area on the operatively anterior end of the routing tower, and a fibre return path and storage cavity on the operatively posterior end of the routing tower. In an embodiment of the invention, the dome base defines a storage cavity operable to store spare fibre cables and passive equipment on a first side thereof, and an uncut cable return path with routing paths back to the routing tower on a second side



21: 2020/01741, 22: 2020/03/19, 43: 2021/09/02

51: A61K: A61M

71: LUPIN ATLANTIS HOLDINGS SA

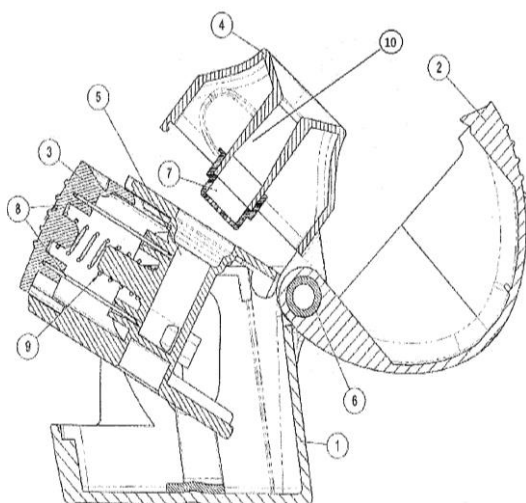
72: ZENG, Xian-Ming, GOLLER, Michael, KUMAR, Thommandru Vijaya, NAYAK, Raghavendra, BAVISKAR, Mahesh, VEKHANDE, Ganesh

33: US 31: 15/703,574 32: 2017-09-13

54: INHALER AND MESH FOR AN INHALER

00: -

An inhaler device for dispensing medicament comprising: a dispenser flow channel (10) leading to a mouthpiece (4), a medicament holder (5), and a mesh part (7) placed in the dispenser flow channel (10) between the medicament holder (5) and the mouthpiece (4), wherein said mesh part (7) is made of a Polyoxymethylene.



21: 2020/01803. 22: 2020/03/23. 43: 2021/09/02

51: E04B

71: AVAX SA 407 CC

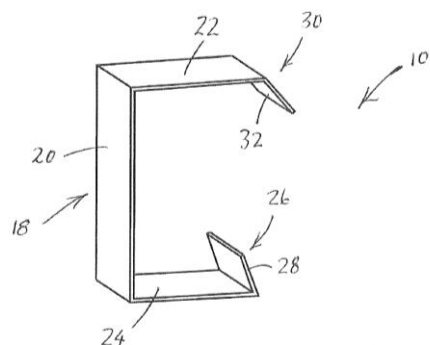
72: COETZEE, Quentin

33: ZA 31: 2019/02311 32: 2019-04-12

54: CLIP FOR SECURING SHEET METAL ROOFING

00: -

The invention provides a resilient clip for securing an edge of a roof sheet to an underlying eave member or channel and having an integral body, of a rigid plastics, composite or metal material, with a first end and a second end and which is formed or moulded to include a central section, an eave engaging lip which terminates at the first end and which is bent inwardly relatively to the central section to extend in a direction towards the central section, and a roof engaging lip which terminates at the second end and which is bent inwardly relatively to the central section to extend in a direction away from the central section.



21: 2020/01811. 22: 2020/03/23. 43: 2021/09/02

51: C01B

71: SOUTH CHINA UNIVERSITY OF TECHNOLOGY

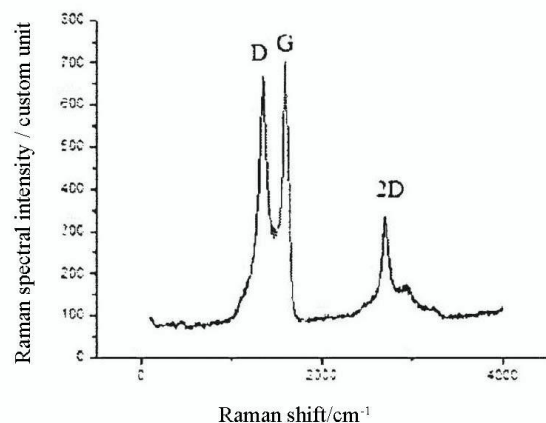
72: ZENG, Gongchang, ZENG, Heping

33: CN 31: 201711044434.1 32: 2017-10-31

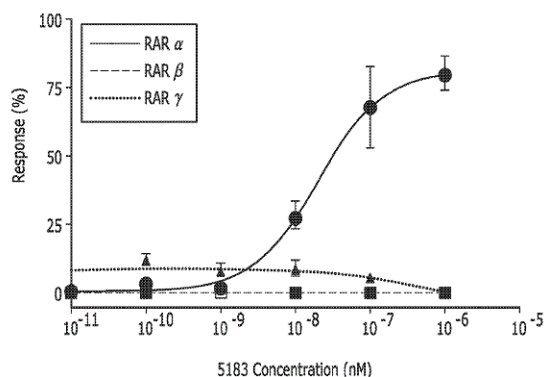
54: A METHOD FOR PREPARING WASTE MANGOSTEEN SHELL GRAPHENE

00: -

The invention discloses a method for preparing graphene from waste mangosteen shell, comprising pulverizing dry waste mangosteen shell; placing the mangosteen shell powder in a tube furnace under N₂ atmosphere; rising the temperature to 500-800 oC and maintaining the temperature for 1 - 2 h; further rising the temperature to 800-1000 oC and maintaining the temperature for 0.5 - 2 h; and slowly lowering the temperature to 25 - 35 oC to obtain pre-carbonized waste mangosteen shell; mixing the pre-carbonized mangosteen shell with one or more of zinc nitrate, aluminum nitrate, zinc chloride and potassium hydroxide; placing the mixture in a tube furnace under N₂ atmosphere; rising the temperature to 800 oC and maintaining the temperature for 1 - 2 h; further rising the temperature to 850-1200 oC and maintaining the temperature for 0.5 - 2 h; and slowly lowering the temperature to room temperature. The graphene prepared by the present invention has single peaks of D, G, and 2D peaks in the Raman spectrum, and the IG / I2D thereof is 1.54 - 2.18; the method of the present invention is simple, the utilization of waste mangosteen shell is low in cost, safe and environmental friendly; especially it avoids using concentrated sulfuric acid, a large amount of which is used in redox reaction of graphite powder and results in pollution; the invention can realize continuous industrial production.

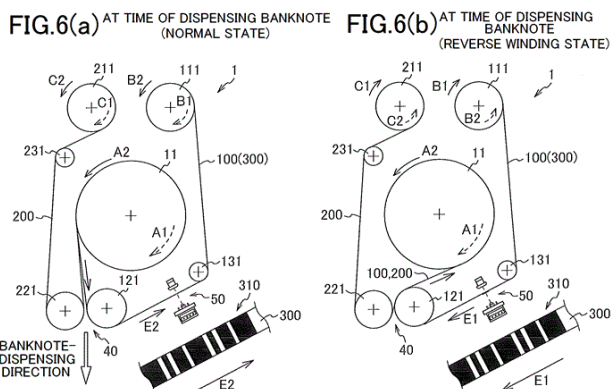


21: 2020/01884. 22: 2020/03/24. 43: 2021/07/30
 51: A61K C07C
 71: IO THERAPEUTICS, INC.
 72: CHANDRARATNA, Roshantha, A., SANDERS, Martin, E.
 33: US 31: 62/552,814 32: 2017-08-31
54: RAR SELECTIVE AGONISTS IN COMBINATION WITH IMMUNE MODULATORS FOR CANCER IMMUNOTHERAPY
 00: -
 Disclosed herein are methods for treating cancer comprising administering CAR-modified immune cells and at least one Retinoic Acid Receptor agonist.



21: 2020/01894. 22: 2020/03/24. 43: 2021/07/30
 51: B65H G07D
 71: JAPAN CASH MACHINE CO., LTD.
 72: YASUTAKA, Hirokazu, EZAWA, Yoshimi, KITANO, Tomonori, ISHIHATA, Hiroji, SEKI, Toru
 33: JP 31: 2017-172862 32: 2017-09-08
54: PAPER SHEET CIRCULATION DEVICE AND CIRCULATION-TYPE PAPER SHEET HANDLING DEVICE
 00: -

The purpose of the invention is to prevent problems such as damage caused by tape being wound in a direction opposite to the normal direction. This paper currency circulation device 1 comprises a drum 11 that winds and feeds tapes 100, 200 by supporting one longitudinal end of the tapes, and bobbins 111, 211 that feed and wind the tapes by supporting the other longitudinal end of the tapes, wherein paper currency M is retained by being held between the tapes and wound on the outer circumference of the drum. The paper currency circulation device 1 comprises travel direction marks 310 that are formed along the travel direction of a detection tape 300 and that have a pattern to indicate a difference in the tape travel direction, and a sensor module 50 that detects the travel direction marks and outputs a detection signal accordingly. The paper currency circulation device 1 determines the tape travel direction (E1, E2) from a pattern signal corresponding to the tape travel direction acquired on the basis of the chronological variation of the detection signal and determines the direction in which the tape is wound on the drum from the tape travel direction and the drum rotational direction.



21: 2020/01915. 22: 2020/03/24. 43: 2021/09/02
 51: B41B; G09F; H04W
 71: Warren Bedil
 72: Warren Bedil
 33: WO 31: PCT/IB2020/052532 32: 2020-03-19
54: AN AUDIO VISUAL DISPLAY AND METHOD OF ADVERTISING THEREWITH
 00: -

A method of advertising using an AV display, wherein the AV display having suitably enabling software and hardware is controlled by a software app installed on the MCD of the user comprising the

steps of: using a suitably enabled and configured software app to activate AV display functionality; and the software app conditioning the activation of AV display functionality on advertising being displayed on the AV display, in use.

21: 2020/01988. 22: 2020/05/04. 43: 2021/08/03

51: A61K; A61Q

71: UNILEVER PLC

72: GU, YEYI, VASUDEVAN, TIRUCHERAI VARAHAN, KEMLER, KAYLA MARIE, KING, ADRIENNE LYN

33: CN 31: PCT/CN2016/111309 32: 2016-12-21

33: EP 31: 17155150.0 32: 2017-02-08

54: LIQUID PERSONAL CLEANSING COMPOSITION

00: -

The invention relates to a liquid personal cleansing compositions. Specific amounts and chain length of acyl glycinate and acyl glutamate when used in specified ratios, have been found to unexpectedly enhance lather volume and texture, as well as provide superior mildness.

21: 2020/02005. 22: 2020/05/04. 43: 2021/09/14

51: B65G

71: GREYLING, Jurie Johannes, GREYLING, Jaco Jurie

72: GREYLING, Jurie Johannes, GREYLING, Jaco Jurie

33: ZA 31: 2019/02605 32: 2019-04-25

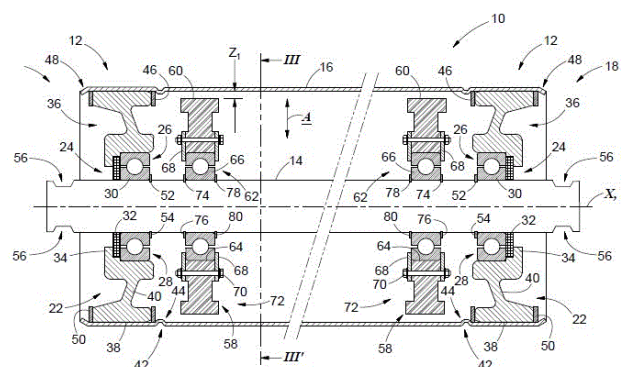
33: ZA 31: 2019/07047 32: 2019-10-25

54: AN IMPACT ABSORBING IDLER ROLLER

00: -

The invention relates, although not exclusively, to an impact absorbing roller wall arrangement 12 for an idler roller 10 that includes a shaft 14 and a shell 16 disposed about the shaft 14. The roller wall arrangement 12 comprises a main roller wall portion 22 mountable on the shaft 14 for supporting the shell 16 for rotation on the shaft 14, and which is resiliently deformable operatively to permit radial displacement A of the shell 16 relative to the shaft 14 in response to a radial load force B being applied to the shell 16, and to exert on the shell 16 a main resistance force C that opposes the radial load force B as the shell 16 displaces A relative to the shaft 14. The arrangement 12 also comprises an auxiliary roller wall portion 58 mountable on the shaft 14 for

exerting on the shell 16 an auxiliary resistance force D that opposes the radial load force B.



21: 2020/02014. 22: 2020/05/04. 43: 2021/02/17

51: A61L

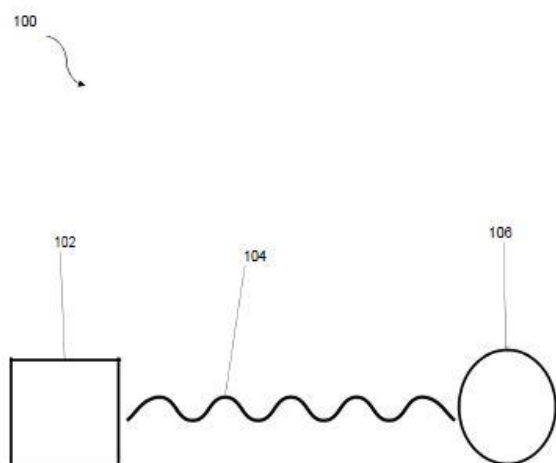
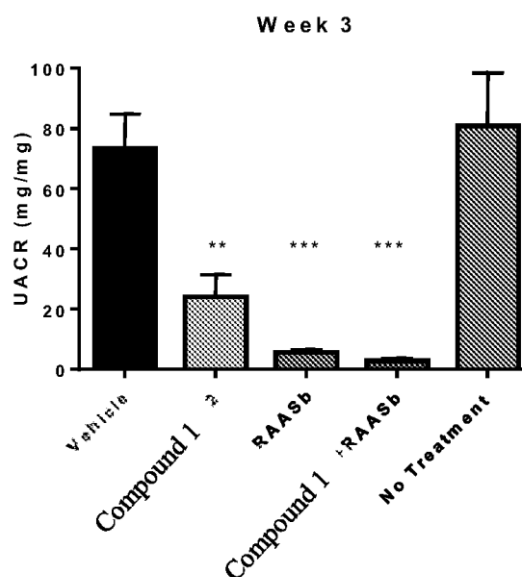
71: Abdool Gani Anver Kalla

72: Abdool Gani Anver Kalla

54: A SYSTEM OPERABLE TO DIMINISH THE NUMBER OF PATHOGENS IN A PUBLIC SPACE, AND A METHOD OF PROVIDING A REDUCTION OF PATHOGENS IN A PUBLIC SPACE

00: -

According to a first aspect of the invention, there is provided system operable to diminish the number of pathogens in a public space, the system including one or more of the following: a disinfection and/ or sterilisation means; a means of applying said disinfection and/ or sterilisation means to a variety of surfaces in a public space; and wherein said system is operable to reduce the number of pathogens on said one or more variety of surfaces, in use. In an embodiment of the invention, said public space includes but is not limited to domestic, industrial and public spaces.



21: 2020/02049. 22: 2020/05/04. 43: 2021/09/02
 51: A61K; C07D; A61P
 71: CHEMOCENTRYX, INC.
 72: MIAO, Zhenhua, SCHALL, Thomas J., SINGH, Rajinder

33: US 31: 62/570,778 32: 2017-10-11
54: TREATMENT OF FOCAL SEGMENTAL GLOMERULOSCLEROSIS WITH CCR2 ANTAGONISTS

00: -

Provided herein are methods of treating focal segmental glomerulosclerosis, said methods include administering to a subject in need thereof a therapeutically effective amount of a CCR2 antagonist. In some embodiments, the CCR2 antagonist is used in monotherapy. In some embodiments, the CCR2 antagonist is used in combination therapy. In some embodiments, the additional therapeutic agent is a RAAS blocker and/or an endothelin receptor inhibitor.

21: 2020/02053. 22: 2020/05/04. 43: 2021/09/14
 51: A01M

71: PLAUT, Rudolf

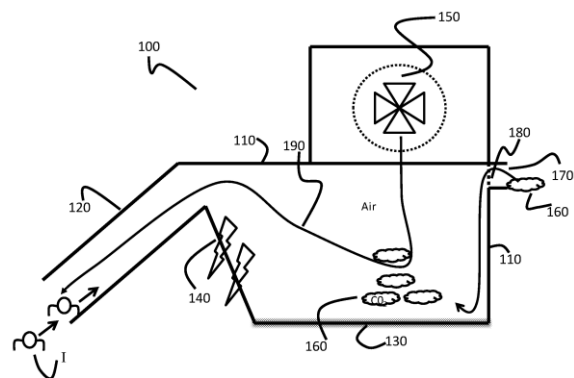
72: PLAUT, Rudolf

33: GB 31: 1716504.4 32: 2017-10-09

54: INSECT TRAPPING

00: -

The invention relates to an insect trapping device (100) comprising: a housing (10) having an opening (120) through which insects (I) can enter the housing; trapping means (130) for trapping insects within the housing; an attractant source (170) and regulating means for regulating a flow of an attractant (160) into the housing; propelling means (150) for evacuating at least a portion of the attractant from within the housing through the opening; control means communicatively coupled with the regulating means and propelling means; wherein the control means is configured to activate the propelling means once a threshold volume of attractant has accumulated within housing. Also disclosed is a method for trapping insects. Advantageously, the present invention can effectively, consistently and quietly control the release of the attractant, where the attractant remains in the housing until the propelling means sends it through the opening, allowing the attractant to accumulate to a specified level in the housing and to be dispersed efficiently creating an effective lure for insects to follow into the traps.



21: 2020/02060. 22: 2020/05/04. 43: 2021/09/02

51: E21C; G01S; G01V; G06T

71: GROUNDPROBE PTY LTD

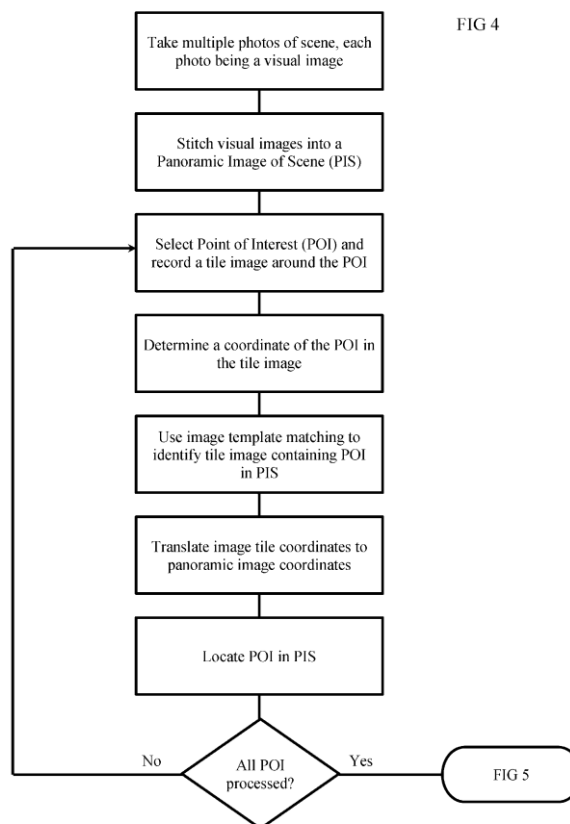
72: CHEN, Benny, CAMPBELL, Lachlan

33: AU 31: 2017904794 32: 2017-11-28

54: SLOPE STABILITY VISUALISATION

00: -

A mine safety apparatus that records movement data of a scene, visual images of the scene and correlates the movement data with the visual images. The apparatus comprises: a slope monitoring device that records location data in the scene and tracks the location data over time to identify movement and produce visual movement overlays; an image capture device that records a plurality of visual images of the scene from a location; and a processor that stitches the visual images into a panoramic image of the entire scene and for selected Points of Interest in the scene accurately determines a coordinate so that the visual movement overlays are correctly correlated with the Points of Interest.



21: 2020/02061. 22: 2020/05/04. 43: 2021/09/06

51: B65B; B65D

71: GUALA PACK S.P.A.

72: TAMARINDO, Stefano

33: IT 31: 102017000120600 32: 2017-10-24

54: METHOD FOR FILLING A THIN-BODY FLEXIBLE BAG PROVIDED WITH A SPOUT

00: -

The invention relates to a method for filling a thin-body flexible package (1) provided with a spout (6). The spout (6) is provided with a normally closed membrane valve (52). The filling system provides a filling nozzle (104) which dispenses the product intended to fill the bag upstream of the valve (52), outside the spout (6) or inside it.

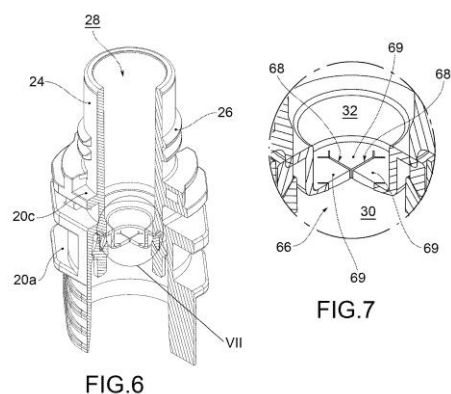


FIG. 6

FIG. 7

21: 2020/02063. 22: 2020/05/04. 43: 2021/09/14
51: G01N
71: STELLENBOSCH UNIVERSITY
72: PRETORIUS, Etheresia, ENGELBRECHT, Anna Martha, PEROLD, Willem Jacobus, NEVELING, Deon Pieter

33: GB 31: 1718708.9 32: 2017-11-13
54: METHODS, SYSTEMS AND DEVICES FOR DETECTING INFLAMMATION

00: -

A method, system, test strip, point-of-care device and computer-implemented method for detecting a level of inflammation in a subject is provided. The level of inflammation is detected by contacting a biological sample obtained from the subject with a serum amyloid A (SAA) capture agent. The capture agent is secured to a substrate and is configured to emit a signal upon binding to SAA. The signal is detected and a result indicating the level of inflammation in the subject is output.

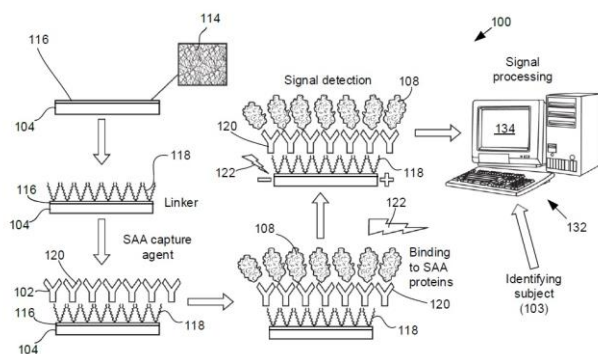


FIGURE 1

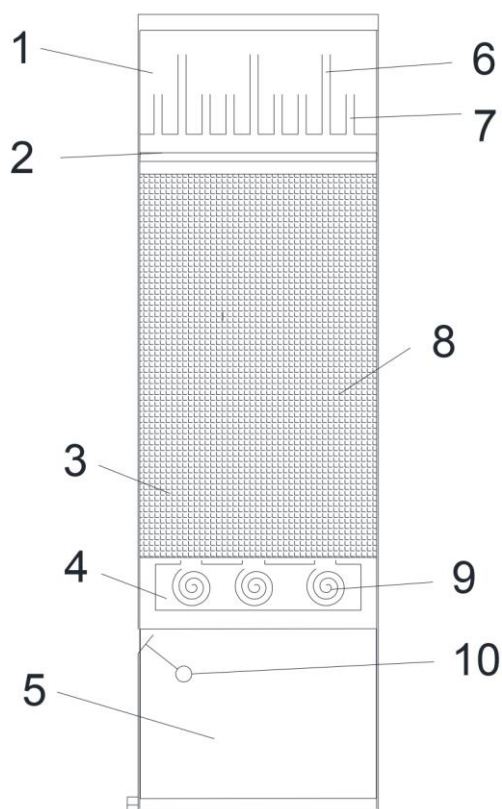
21: 2020/02065. 22: 2020/05/04. 43: 2021/09/02
51: F24F
71: GUANGDONG MECHANICAL&ELECTRICAL POLYTECHNIC
72: TONG, Lei, CHEN, Xueqing

33: CN 31: 201811157204.0 32: 2018-09-30

54: A METHOD FOR TEMPERATURE REGULATION WITH AN AIR-CONDITIONING FAN BY WATER DIVERSION AND AN AIR-CONDITIONING FAN FOR REALIZING THE METHOD

00: -

A method for temperature regulation with an air-conditioning fan by water diversion provided by the present invention is characterized by comprising: siphoning water from a lower position to an upper position by capillary force of a capillary, the water flowing from the upper position to a hydrophilic porous medium uniformly and spreading on a porous passage wall of the hydrophilic porous medium to form a water film; blowing air into the porous passage of the hydrophilic porous medium to form a low pressure on the porous passage wall by an induced draft fan, so that the water film evaporates faster under the low pressure environment and exchanges heat with the air to rapidly reduce temperature of the air; bringing the air with reduced temperature out by the induced draft fan to achieve cool and dry air output by the air-conditioning fan. The method lowers the air temperature, is convenient for use and comfortable for human body, reduces the noise, saves energy and protects the environment. The invention further provides an air-conditioning fan for realizing the method for temperature regulation with an air-conditioning fan by water diversion, which lowers the air temperature, is convenient for use and comfortable for human body, reduces the noise, saves energy and protects the environment.



21: 2020/02069. 22: 2020/05/04. 43: 2021/08/24
51: A61K; A61P

71: ATRIVA THERAPEUTICS GMBH
72: LUDWIG, Stephan, PLANZ, Oliver
33: LU 31: LU100487 32: 2017-10-17

54: NOVEL MEK-INHIBITOR FOR THE TREATMENT OF VIRAL AND BACTERIAL INFECTIONS

00: -

The present invention relates to PD-0184264 for use in a method for the prophylaxis and/or treatment of a co-infection comprising a bacterial infection and an influenza virus infection or a viral or bacterial infection alone. Also provided are compositions comprising such inhibitors for use in the prophylaxis and/or treatment of a co-infection comprising a bacterial infection and an influenza virus infection or a bacterial or viral infection alone.

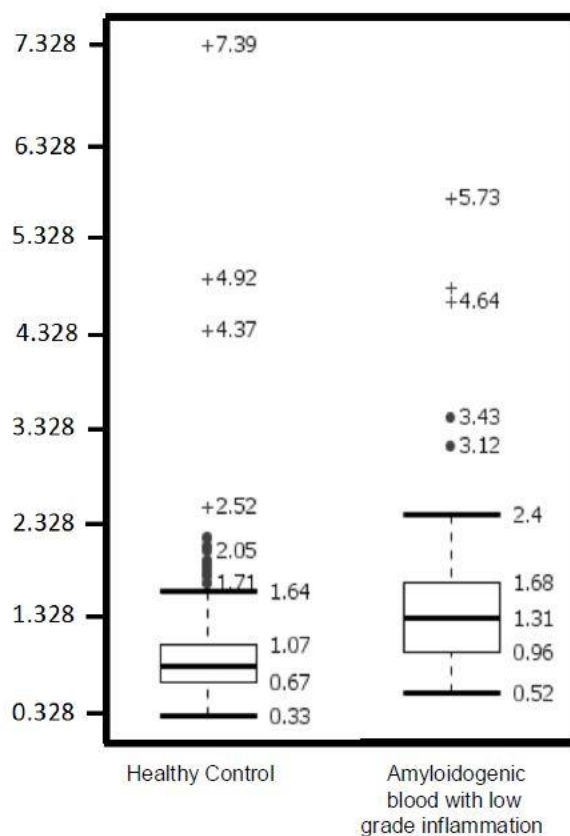
21: 2020/02070. 22: 2020/05/04. 43: 2021/09/14
51: G01N

71: STELLENBOSCH UNIVERSITY
72: PRETORIUS, Etheresia, KELL, Douglas Bruce,
DE VILLIERS, Willem Johan Simon
33: GB 31: 1718704.8 32: 2017-11-13

54: METHOD OF DETECTING INFLAMMATION

00: -

A method of detecting inflammation in a subject is provided. The method comprises determining a quantity of amyloid present in fibrin (ogen) protein in a blood sample obtained from the subject, and assigning a level of inflammation in the subject based on the quantity of fibrin (ogen) amyloid determined. A method of determining an effect of a therapeutic treatment on a subject by comparing a pre-treatment level of inflammation with a post-treatment level is further provided.



21: 2020/02073. 22: 2020/05/04. 43: 2021/09/02
51: A23L; A23P; C07C

71: PURAC BIOCHEM B.V.
72: ROOZEN, Lambertus Henricus Elisabeth,
HILHORST, Gerrit Anthon Rene,
KUSUMAWARDANI, Heny, PAPAGEORGIOU,
Apostolos, VAN DER VOORT MAARSCHALK, Kees
33: EP 31: 17194983.7 32: 2017-10-05

54: LACTATE POWDER AND METHOD FOR THE PREPARATION THEREOF

00: -

The invention relates to a particulate product comprising at least 10 wt.% of the coated lactate particles having the following characteristics: - comprising one or more carrier particles containing at least 80 wt.% of calcium lactate component selected from calcium lactate hydrates, calcium lactate anhydrous and combinations thereof; - comprising a coating layer that covers the one or more carrier particles, said coating layer containing at least 60 wt.% of sodium lactate; - containing sodium and calcium in a molar ratio of 2.1:1 to 5:1; and - a particle size in the range of 120 to 1,200 μm . The coated lactate particles in the particulate product are very stable, even though the sodium lactate in the coating layer is in direct contact with the surrounding atmosphere. The particulate product can suitably be used in the preparation of food stuffs and beverages.

21: 2020/02077. 22: 2020/05/04. 43: 2021/09/02
51: G10L

71: FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V.

72: RAVELLI, Emmanuel, SCHNELL, Markus, BENNDORF, Conrad, LUTZKY, Manfred, DIETZ, Martin, KORSE, Srikanth

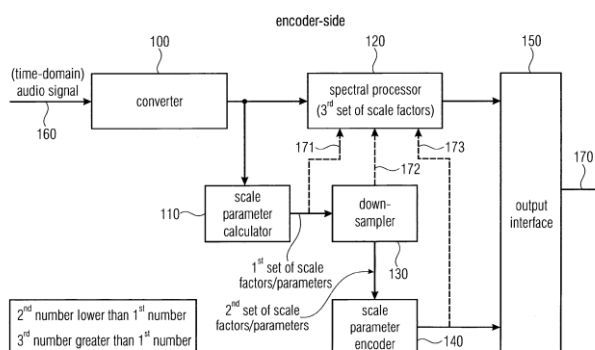
33: EP 31: PCT/EP2017/078921 32: 2017-11-10

54: APPARATUS AND METHOD FOR ENCODING AND DECODING AN AUDIO SIGNAL USING DOWNSAMPLING OR INTERPOLATION OF SCALE PARAMETERS

00: -

An apparatus for encoding an audio signal (160), comprises: a converter (100) for converting the audio signal into a spectral representation; a scale parameter calculator (110) for calculating a first set of scale parameters from the spectral representation; a downsampler (130) for downsampling the first set of scale parameters to obtain a second set of scale parameters, wherein a second number of scale parameters in the second set of scale parameters is lower than a first number of scale parameters in the first set of scale parameters; a scale parameter encoder (140) for generating an encoded representation of the second set of scale parameters; a spectral processor (120) for processing the spectral representation using a third set of scale parameters, the third set of scale parameters having a third number of scale

parameters being greater than the second number of scale parameters, wherein the spectral processor (120) is configured to use the first set of scale parameters or to derive the third set of scale parameters from the second set of scale parameters or from the encoded representation of the second set of scale parameters using an interpolation operation; and an output interface (150) for generating an encoded output signal (170) comprising information on the encoded representation of the spectral representation and information on the encoded representation of the second set of scale parameters.



21: 2020/02085. 22: 2020/05/04. 43: 2021/09/02
51: A47B; A47C; A47D

71: STELLENBOSCH UNIVERSITY

72: FISHER, Dominic, LOUW, Quinette, BROWN, Sjan-Mari, LANGENHOVEN, Jacobus Willem

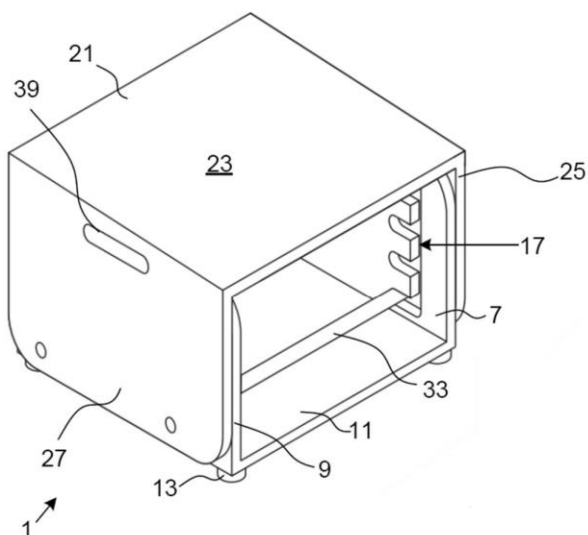
33: ZA 31: 2017/07242 32: 2017-10-25

54: A MULTI-FUNCTIONAL ADJUSTABLE FURNITURE ARTICLE

00: -

The invention provides for an adjustable furniture article comprising a base member, a top member and a retaining and adjustment arrangement. The top member provides a working surface and the retaining and adjustment arrangement are configured operatively to retain the top member relative to the base member in a position which is above the base member and at which an angle between the working surface and the horizontal is acute. The retaining and adjustment arrangement provides an adjustment mechanism configured to enable adjustment of the height of the top member relative to the base member between limits selected to enable adjustment for use of the furniture article

as a seat and use of the furniture article as a standing desk.



21: 2020/02088. 22: 2020/05/04. 43: 2021/09/02
 51: A23B; A23L; A23P; B01J
 71: PURAC BIOCHEM B.V.
 72: ROOZEN, Lambertus Henricus Elisabeth,
 HILHORST, Gerrit Anthon Rene,
 KUSUMAWARDANI, Heny, PAPAGEORGIOU,
 Apostolos, VAN DER VOORT MAARSCHALK, Kees
 33: EP 31: 17200361.8 32: 2017-11-07
**54: ACETATE POWDER AND METHOD FOR THE
 PREPARATION THEREOF**

00: -

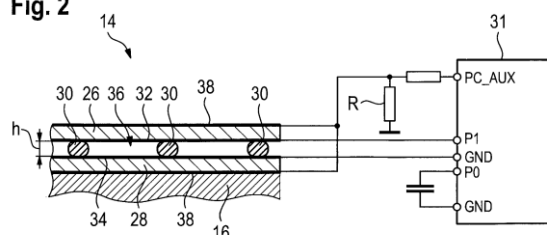
The invention relates to a particulate product comprising at least 10 wt.% of the coated acetate particles having the following characteristics: comprising one or more carrier particles containing at least 80 wt.% of sodium acetate component selected from sodium acetate hydrates, sodium acetate anhydrous and combinations thereof; comprising a coating layer that covers the one or more carrier particles, said coating layer containing at least 60 wt.% of potassium acetate; containing potassium and sodium in a molar ratio of 0.4:1 to 5:1; and a particle size in the range of 40 to 1,000 μm . The coated acetate particles in the particulate product are very stable, even though the potassium acetate in the coating layer is in direct contact with the surrounding atmosphere. The particulate product can suitably be used in the preparation of foodstuffs and beverages.

21: 2020/02100. 22: 2020/05/04. 43: 2021/09/14
 51: B65D; F16B; G01L
 71: CHEP TECHNOLOGY PTY LIMITED
 72: PANNICKE, Marco
 33: IT 31: 102017000115209 32: 2017-10-12
**54: PALLET SYSTEM AS WELL AS MEASURING
 COMPONENT**

00: -

A pallet system (10) for transporting goods has a pallet (12) and a measuring component (14) located on top of the upper surface (18) of the pallet (12). The measuring component (14) comprises a first conductive layer (32) and a second conductive layer (34) spaced apart from each other forming a capacitor with a gap (36). At least one elastic element (30) is arranged within the gap, and a control unit (31) is electrically connected to the first conductive layer (32) and the second conductive layer (34), wherein the control unit (31) is configured to measure the capacitance of the capacitor. Further, a measuring component (14) is shown.

Fig. 2

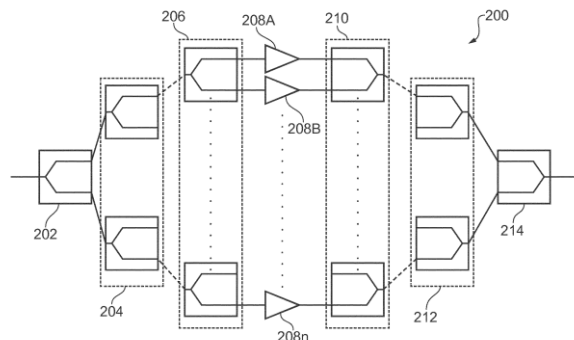


21: 2020/02102. 22: 2020/05/04. 43: 2021/09/02
 51: A61B
 71: CREO MEDICAL LIMITED
 72: HANCOCK, Christopher Paul
 33: GB 31: 1721994.0 32: 2017-12-27
54: ELECTROSURGICAL APPARATUS

00: -

An apparatus capable of generating high power microwave frequency pulses for use with an electrosurgical device. The apparatus may be used for coagulating or ablating biological tissue. The apparatus includes an amplifier line-up comprising: a microwave signal generator for generating microwave radiation; a modulator arranged to pulse the microwave radiation; and an amplifier module arranged to increase the power of pulses of microwave radiation. The amplifier module works by providing a set of amplifiers that exhibit a gain that is greater than the total loss experienced at the

components that divide the input signal and then combine the output signals. For example, if each amplifier in the array has a gain of 10 dBm, it is viable to use conventional power splitters and combiners to obtain an output microwave signal with substantially higher power than is provided by conventional electrosurgical generators.



21: 2020/02357. 22: 2020/05/04. 43: 2021/09/14

51: G06K; G06T

71: SENSE NETWORKS GROUP PTY LTD

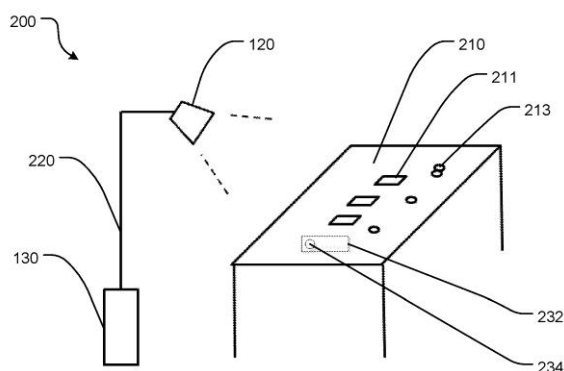
72: VO, NHAT, CHALLA, SUBHASH, QUINN, LOUIS

33: AU 31: 2017903975 32: 2017-10-02

54: SYSTEM AND METHOD FOR MACHINE LEARNING-DRIVEN OBJECT DETECTION

00: -

Embodiments relate to systems and methods for gaming monitoring. In particular, embodiments relate to systems and methods for gaming monitoring based on machine learning processes configured to analyse captured images to identify or detect game objects and game events to monitor games.



21: 2020/02394. 22: 2020/05/04. 43: 2021/08/24

51: B61F

71: AMSTED RAIL COMPANY, INC.

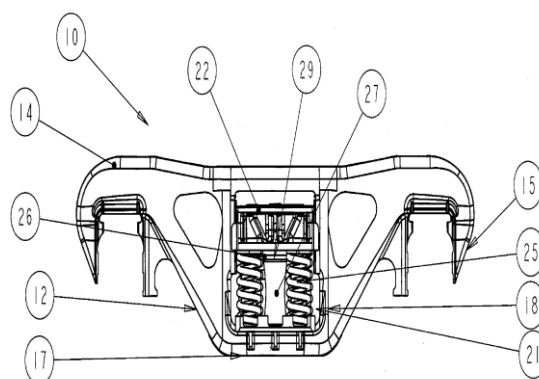
72: HARRIS, Zachary

33: US 31: 15/723,380 32: 2017-10-03

54: RAILWAY TRUCK WITH ELASTOMERIC SUSPENSION

00: -

A railway freight car truck is provided with an elastomeric suspension device between the bolster end and the sideframe spring support surface. The elastomeric device is usually of an elongated oval shape. The elastomeric device takes the place of one or more rows of coil springs that comprise the suspension resting on the sideframe support surface. The freight car truck bolster is supported on the coil springs under empty car conditions and both the coil springs and the elastomeric device under fully loaded car conditions.



21: 2020/02499. 22: 2020/05/06. 43: 2021/09/14

51: D21C; D21H

71: ARCHROMA IP GMBH

72: DOMINGUEZ, Cristina, JACKSON, Andrew, ATKINSON, David, ILHAN, Meral, BUKOWSKI, Marc

33: EP 31: 17210363.2 32: 2017-12-22

54: OPTICAL BRIGHTENER FOR WHITENING PAPER

00: -

The invention relates to an optical brightener for whitening and brightening of paper, board, textiles and non-wovens, a process for manufacturing said optical brightener, the use of said brightener in paper making processes and a process for whitening paper.

21: 2020/02520. 22: 2020/05/07. 43: 2021/09/02

51: G10L

71: FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V.

72: RAVELLI, Emmanuel, LUTZKY, Manfred, SCHNELL, Markus, TSCHEKALINSKI, Alexander, MARKOVIC, Goran, GEYERSBERGER, Stefan

33: EP 31: 17201094.4 32: 2017-11-10

54: TEMPORAL NOISE SHAPING

00: -

There are discussed methods and apparatus for performing temporal noise shaping. An apparatus may comprise a temporal noise shaping, TNS, tool (11) for performing linear prediction, LP, filtering (S33, S35, S36) on an information signal including a plurality of frames; and a controller (12) configured to control the TNS tool (11) so that the TNS tool (11) performs LP filtering with: a first filter (14a) whose impulse response has a higher energy (S36); and a second filter (15a) whose impulse response has a lower energy (S35) than the first filter, wherein the second filter is not an identity filter, wherein the controller (12) is configured to choose (S34) between filtering (S36) with the first filter (14a), and filtering (S35) with the second filter (15a) on the basis of a frame metrics.

21: 2020/02521. 22: 2020/05/07. 43: 2021/09/02
51: G10L

71: FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V.

72: RAVELLI, Emmanuel, DIETZ, Martin, SCHNABEL, Michael, TRITTHART, Arthur, TSCHEKALINSKI, Alexander

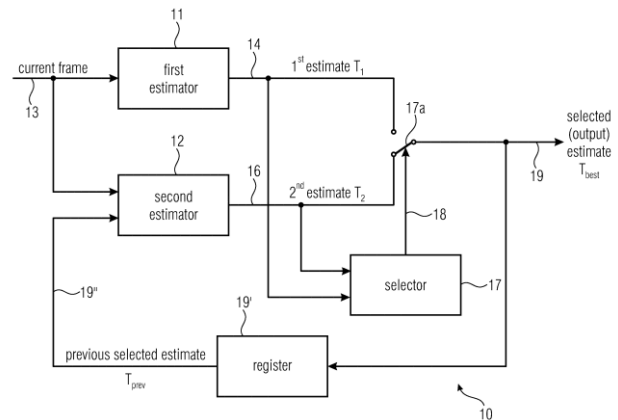
33: EP 31: 17201091.0 32: 2017-11-10

54: SELECTING PITCH LAG

00: -

There are proposed techniques (e.g., in apparatus, methods, programs) for selecting pitch lag. An apparatus (10, 60a, 110) for encoding an information signal including a plurality of frames. The apparatus may comprise a first estimator (11) configured to obtain a first estimate (14, T_i), the first estimate being an estimate of a pitch lag for a current frame (13). The apparatus may comprise a second estimator (12) configured to obtain a second estimate (16, T_2), the second estimate being another estimate of a pitch lag for the current frame (13). A selector (17) may be configured to choose (S103) a selected value (19, T_{best}) by performing a selection between the first estimate (14, T_1) and the

second estimate (16, T_2) on the basis of a first and a second correlation measurements (23, 25).



21: 2020/02616. 22: 2020/05/11. 43: 2021/09/06
51: G02B

71: PRYSMIAN S.P.A.

72: PADDICK, Nathan

54: ELECTRICAL POWER AND OPTICAL DISTRIBUTION BOX FOR FIBER TO THE ANTENNA SYSTEMS

00: -

Distribution box (10) for Fiber To The Antenna (FTTA) systems comprising: an upper compartment (11) and a lower compartment (12) separated one from one another, the lower compartment (12) being provided with a sealable entry point (17) for a pre-terminated hybrid cable comprising at least one electric conductor and at least one optical fiber, a plurality of electrical connectors (21) for electrical power conductors and at least one optical connector (22) for optical fiber being arranged within the lower compartment (12), the upper compartment (11) comprising one or more connection points (23) for hybrid jumper cables.

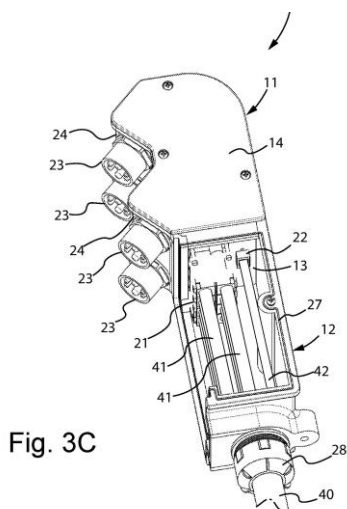


Fig. 3C

21: 2020/02673. 22: 2020/05/12. 43: 2021/08/24
 51: F28C; F28D
 71: BALTIMORE AIRCOIL COMPANY, INC.
 72: BLAY, Preston, SINGH, Ravindra, MORRISON, Frank, T., BEAVER, Andrew, AARON, David, Andrew

33: US 31: 15/814,032 32: 2017-11-15

54: AUTOMATED CONTROL OF HEAT EXCHANGER OPERATION

00: -

An indirect heat exchanger has two airflow paths and an airflow generator to draw air through the airflow paths. A fluid conduit passes through the heat exchanger such that a cooling region is positioned within each of the flow paths. A dispenser is positioned to dispense evaporative liquid on one of the cooling regions. The dispenser operates in a wet mode and a dry mode. A controller regulates airflow through the first flow path and the second flow path, and also controls the operation of the dispenser. In this way, the controller may operate the airflow paths independently such that the airflow through a flow path operating in the dry mode is greater than that of the flow path operating in the wet mode.

21: 2020/02717. 22: 2020/05/13. 43: 2021/08/24
 51: B01J; C10G
 71: IFP ENERGIES NOUVELLES
 72: DIEHL, Fabrice, GUEGAN, Carine
 33: FR 31: 1761407 32: 2017-11-30

54: MULTI-METALLIC CATALYST DOPED WITH PHOSPHORUS AND YTTERBIUM

00: -

The invention relates to a catalyst comprising a carrier, at least one noble metal M, tin, phosphorus and ytterbium, wherein the phosphorus element content is greater than or equal to 0.2 wt %, and less than 0.4 wt %, and the ytterbium content is less than or equal to 1 wt %, in relation to the mass of the catalyst. The invention also relates to the process of preparing the catalyst and to the use thereof in reforming.

21: 2020/02720. 22: 2020/05/13. 43: 2021/08/24
 51: B01J; C07C; C10G
 71: IFP ENERGIES NOUVELLES
 72: DIEHL, Fabrice, GUEGAN, Carine
 33: FR 31: 1761408 32: 2017-11-30

54: MULTI-METALLIC CATALYST DOPED WITH PHOSPHORUS AND YTTRIUM

00: -

The invention relates to a catalyst comprising a carrier, at least one noble metal M, tin, phosphorus and yttrium, wherein the phosphorus element content is less than or equal to 1 wt %, and the yttrium content is less than or equal to 1 wt %, in relation to the mass of the catalyst. The invention also relates to the process of preparing the catalyst and to the use thereof in reforming.

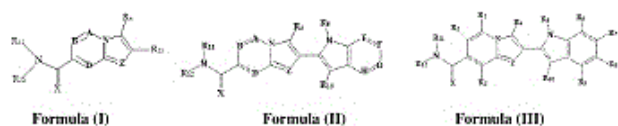
21: 2020/02770. 22: 2020/05/14. 43: 2021/08/16
 51: C07D; A61P; A61K
 71: JUBILANT EPIPAD LLC
 72: HALLUR, GURULINGAPPA, DURAISWAMY, ATHISAYAMANI JEYARAJ, PURRA, BUCHI REDDY, RAO, N V S K, RAJAGOPAL, SRIDHARAN, KRISTAM, RAJENDRA
 33: IN 31: 201741037110 32: 2017-10-18

54: IMIDAZO-PYRIDINE COMPOUNDS AS PAD INHIBITORS

00: -

Heterocyclic compounds of Formula (I), (II), and (III) are described herein along with their polymorphs, stereoisomers, prodrugs, solvates, co-crystals, intermediates, pharmaceutically acceptable salts, and metabolites thereof. The compounds described herein, their polymorphs, stereoisomers, prodrugs, solvates, co-crystals, intermediates, pharmaceutically acceptable salts, and metabolites thereof are PAD4 inhibitors and may be useful in the treatment of various disorders, for example rheumatoid arthritis, vasculitis, systemic lupus erythematosus, cutaneous lupus erythematosus,

ulcerative colitis, cancer, cystic fibrosis, asthma, multiple sclerosis and psoriasis. The process of preparation of the compounds of Formula (I), (II), and (III), their polymorphs, stereoisomers, prodrugs, solvates, co-crystals, intermediates, pharmaceutically acceptable salts, and metabolites thereof, along with a pharmaceutical composition comprising a compound of Formula (I), Formula (II), Formula (III), or a pharmaceutically acceptable salt thereof have also been described.



21: 2020/02909. 22: 2020/05/19. 43: 2021/09/02

51: C05B; C05D; C05G

71: YARA UK LIMITED

72: WARD, Stuart, BUTLER, Victoria

33: GB 31: 1720083.3 32: 2017-12-04

54: NOVEL PHOSPHATIC FERTILIZERS BASED ON ALKANOLAMINE SALTS OF PHOSPHORIC ACID

00: -

The invention relates to use of alkanolamine salts of phosphoric acid as an ammonium-free fertilizer. The invention also discloses aqueous compositions, comprising an alkanolamine salt of phosphoric acid and at least an alkanolamine metal complex.

21: 2020/02925. 22: 2020/05/19. 43: 2021/09/14

51: G01V

71: University of Johannesburg

72: CONNELL, Simon Henry, COOK, Martin Nkululeko Hogan

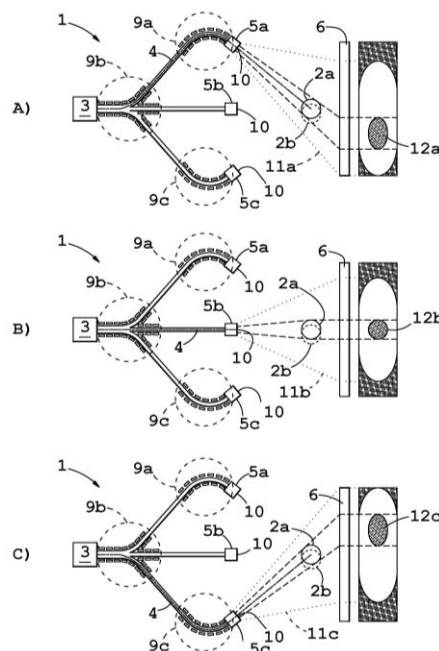
33: ZA 31: 2017/07077 32: 2017-10-19

54: METHOD OF TOMOGRAPHIC RADIOGRAPHY

00: -

This invention relates to a method of creating a representation of the internal structure of a target object. There is provided a method of creating a representation of the internal structure of a target object comprising the steps of accelerating a number of charged subatomic particles, guiding the particles to a plurality of emission sources on one side of a target object, emitting electromagnetic radiation from each specific emission source for a discrete period such that, during the discrete period, the specific emission source is associated with the discrete

period, the electromagnetic radiation being generated by the conversion of the particles to electromagnetic radiation, detecting, on a side opposing the emission sources, a projection of penetration of the electromagnetic radiation from each emission source, and combining the projections from each source to create a representation of the internal structure of the target object.



21: 2020/02944. 22: 2020/05/20. 43: 2021/07/30

51: H04R

71: PS AUDIO DESIGN OY

72: SORONEN, Petri, KAJANUS, Vesa, LUUKKANEN, Petteri, KANKAANPÄÄ, Harri

33: FI 31: 20185251 32: 2018-03-16

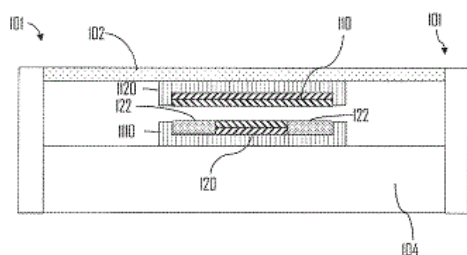
33: FI 31: 20175942 32: 2017-10-25

54: TRANSDUCER ARRANGEMENT

00: -

There is provided an arrangement for generating vibration according to an electrical input signal, the arrangement comprising: a first permanent magnet arrangement comprising a first permanent magnet; a frame comprising magnetic material; a second permanent magnet configured to be arranged between the first permanent magnet and the frame and to be coupled with the frame, one or more portion of the frame extending at least in one direction over an edge area of the second

permanent magnet, the second permanent magnet further configured to face, at a distance, the first permanent magnet such that a magnetic interaction between the first permanent magnet and the second permanent magnet causes a first force to a surface of an apparatus, wherein the frame is configured to be magnetized by the second permanent magnet in order to cause magnetic interaction between said one or more portion of the frame and the first permanent magnet arrangement in order to cause a second force to the surface having an opposite direction compared with the first force.



21: 2020/02948. 22: 2020/05/20. 43: 2021/08/16

51: B25J; B65G

71: IINO HIDEKI

72: IINO, HIDEKI, AOKI, KIYOSHI, HORIKOSHI, HAYATO

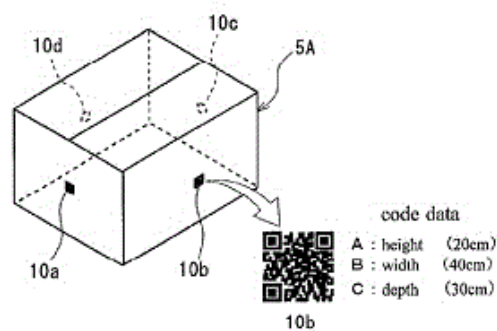
33: JP 31: 2017-215383 32: 2017-11-08

54: FREIGHT IDENTIFICATION CODE, ITEMS DISPLAYING SAME, AND ROBOT HAND USED FOR SAME

00: -

[Problem] To make it possible to smoothly de-van and de-palletize loaded rectangular solid freight while responding to a variety of circumstances.

[Solution] Freight identification codes 10a, 10b, 10c, and 10d, which are to be respectively displayed at specified positions on the four surfaces, front, back, left, and right, or all surfaces of a rectangular freight 5A and the code data of which is to be identified by a specified control means via a reading means, the codes being characterized in that: said code data comprises size information representing the length and width sizes of the code-displaying surface of the freight 5A; and the code causes the reading means and the control means of a robot provided with a robot hand to align the robot hand with the freight 5A on the basis of the code display position and size information.



21: 2020/02991. 22: 2020/05/21. 43: 2021/09/02

51: C12Q

71: ZHUHAI QIWEI BIO-TECHNOLOGY LTD.

72: WEI, Lai

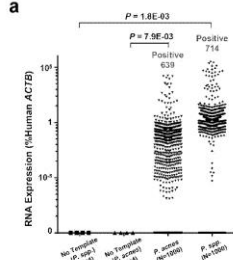
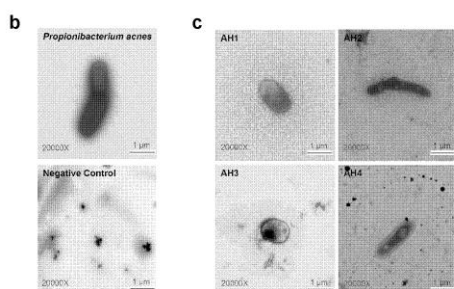
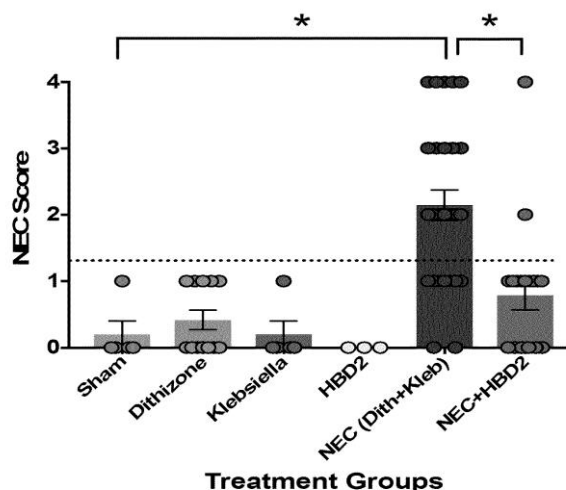
33: CN 31: 201711017087.3 32: 2017-10-26

54: METHODS AND COMPOSITIONS FOR ASSESSING AND TREATING INTRAOCULAR DISEASES AND DISORDERS

00: -

Provided are compositions, devices and systems, methods for assessing, treating and/or preventing an intraocular disease or disorder in a subject, wherein the etiology of the intraocular disease or disorder comprises infection of a microorganism in the intraocular space or cavity of the subject. Provided are compositions, devices and systems, and methods for assessing, treating and/or preventing age-related macular degeneration (AMD) in a subject, e.g., a human patient.

Figure 1 a



21: 2020/02992. 22: 2020/05/21. 43: 2021/09/02
 51: A61K; A61P
 71: DEFENSIN THERAPEUTICS APS
 72: NORDKILD, Peter
 33: EP 31: 17201002.7 32: 2017-11-10
54: MATURATION OF MUCOSAL DEFENSE AND GUT/LUNG FUNCTION IN THE PRETERM INFANT
 00: -

The present invention relates to methods for maturing the mucosal defense and rebalancing the immune system preventing a cytokine storm; treatment or prevention of neonatal sepsis, necrotizing enterocolitis, acute and prolonged diarrhea, short bowel syndrome, respiratory illness, respiratory infection, respiratory failure, impaired neurodevelopment and extra uterine growth restriction, the method comprising oral and/or intrapulmonary and/or subcutaneous administration of at least one antimicrobial peptide selected from the group consisting of α -defensins, β -defensins, cathelicidins, lactoferrins/lactoferricins and lysozymes and/or GLP-2 or GLP-2 analogs in a preterm infant or a mother about to give birth to a preterm infant.

21: 2020/03013. 22: 2020/05/12. 43: 2021/04/07
 51: H02J
 71: Harbin Institute of Technology (Shenzhen) (Harbin Institute of Technology Shenzhen Technology Innovation Institute)
 72: LYU, Jinghang, ZHANG, Yue, ZHAO, Ming, ZHANG, Bingfu
 33: CN 31: CN202010221105.5 32: 2020-03-26
54: METHOD AND SYSTEM FOR CONTROLLING GRID-CONNECTED POWER CONVERTER
 00: -

The present invention relates to a method for controlling a grid-connected power converter, including steps of: acquiring a three-phase AC voltage and a three-phase AC current of a public grid; taking the three phase AC voltage as a first input of a reference current generator; acquiring a DC-link voltage of a DC side of the converter; observing the DC-link voltage acquired through a RGPIO, a value of the voltage observed being used as a second input of the reference current generator; and taking a reference current from the reference current generator and the three-phase AC current acquired as inputs of a RST-SMC, so as to generate a PWM signal for controlling the converter. The present invention further relates to a corresponding system.

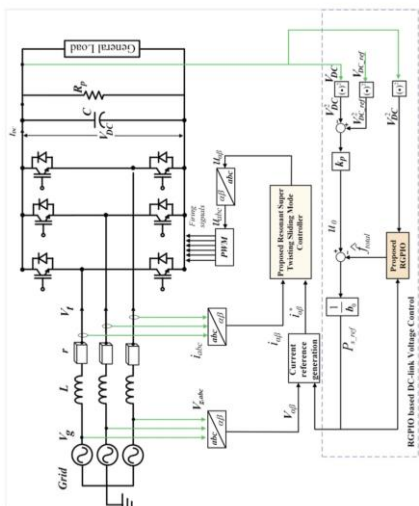
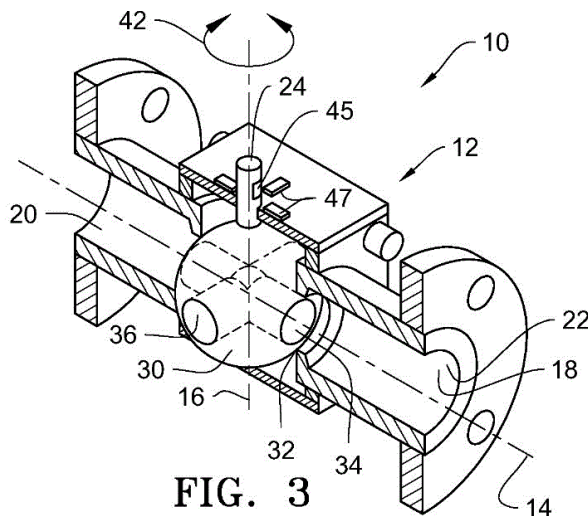


FIG. 3

21: 2020/03025. 22: 2020/05/22. 43: 2021/09/06
51: F16K

71: PRECISION PLANTING LLC

72: MCMENAMY, Justin

33: US 31: 62/622,796 32: 2018-01-26

54: INLINE, MULTI-PORT BALL VALVE

00: -

A ball valve assembly having a valve body with a single inline fluid passage therethrough along a central longitudinal axis. A ball valve is sealingly seated in a valve seat within the valve body. The ball valve includes at least two through-bores, each of the at least two through-bores having a central axis intersecting one another, whereby the ball valve is rotatable between a fully open position and a fully closed position. In one application the ball valve has two bores intersecting one another such that an angle α between adjacent bore openings of the ball valve are less than 90 degrees and an angle β between other adjacent ends of the ball valve are greater than 90 degrees for applying liquid product in a seed furrow before and after each seed in the furrow but not onto the seed.

21: 2020/03103. 22: 2020/05/26. 43: 2021/09/02
51: G06F; G07F

71: HEXING ELECTRICAL CO., LTD

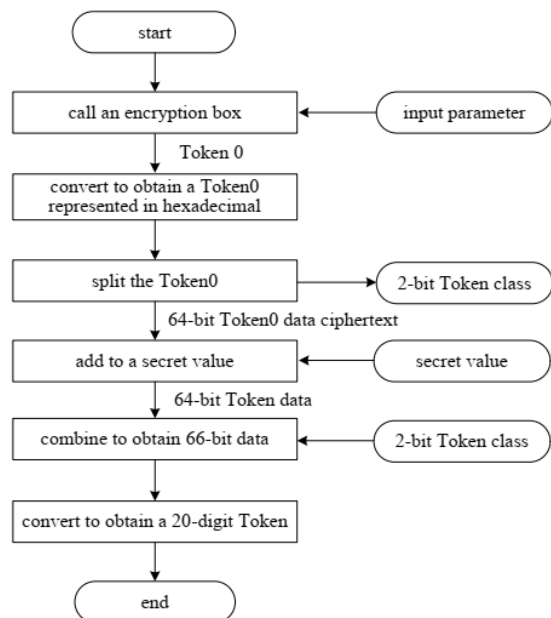
72: ZHENG, Yuanyuan, YAO, Qing, XU, Ziding,
WANG, Liang, GUO, Yuxuan

33: CN 31: 201711019518.X 32: 2017-10-27

54: SUSTAINABLE OPERATION METHOD BASED ON STS PREPAYMENT SYSTEM

00: -

A sustainable operation method based on an STS prepayment system is mainly accomplished by means of the following technical solution: the sustainable operation method based on an STS prepayment system comprises the following steps: during switching of a benchmark date, clear a TID stack in a meter and store a secret value; invoke an encryption box according to requirements to obtain a Token0 having a string of 20 numbers, and convert the Token0 into hexadecimal representation; fetch a Token class of 2 bits to obtain a Token0 data cipher text of 64 bits, and add the Token0 data cipher text and the secret value to obtain Token data of 64 bits; insert the fetched Token class of 2 bits into the Token data, and convert same into a Token having 20 numbers; after receiving the Token, the meter parses same to obtain the Token0 and performs CRC verification and TID identification, and after the verification and the identification are successful, the meter stores a TID of the Token0 and executes corresponding operations. By means of the method, the existing STS prepayment system can be used sustainably without replacing the encryption box, and is not affected by the benchmark date.



21: 2020/03110. 22: 2020/05/26. 43: 2021/08/18
51: B01L; G01N

71: COPAN ITALIA S.P.A.

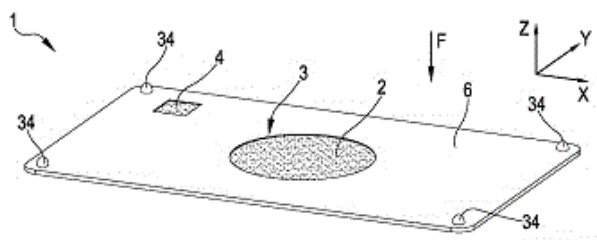
72: MARTELLO, GIORGIO

33: IT 31: 102017000139132 32: 2017-12-01

54: SUPPORT FOR THE PRESERVATION OF BIOLOGICAL SAMPLES AND CORRELATED METHOD OF PRODUCTION

00: -

A support (1) for conserving a sample of biological material comprising at least a substantially rigid body (6) made of moulded plastic material, comprising at least a first through opening (13) and at least a first portion (3) of an absorbent matrix (2) suitable for conserving a sample of biological material, fixed within the first through opening (13). The first portion of the absorbent matrix (3) has at least a first part (28, 29) without support from the body (6) and suspended inside the first through opening (13), the first part (28, 29) being directly accessible to contact.



21: 2020/03124. 22: 2020/05/26. 43: 2021/08/19
51: G06K

71: Retinacheck B.V.

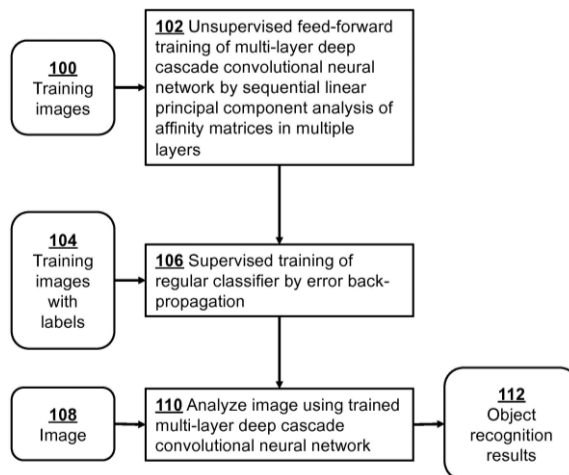
72: TER HAAR ROMENIJ, Barend Marius, ABBASI SURESHJANI, Samaneh

33: US 31: 15/822,982 32: 2017-11-27

54: OBJECT RECOGNITION USING A CONVOLUTIONAL NEURAL NETWORK TRAINED BY PRINCIPAL COMPONENT ANALYSIS AND REPEATED SPECTRAL CLUSTERING

00: -

A method of object recognition uses a convolutional neural network (CNN) trained with a set of training images [100, 104], then classifies [110] an image [108] of an object using the trained CNN. A first layer of the CNN is trained [102] by generating a set of first convolutional filters from eigenvectors produced from linear principal component analysis of patches of the training images [100]. The training of each of multiple hidden layers CNN includes generating a set of convolutional filters from a selected subset of eigenvectors produced from linear principal component analysis of patches of an affinity matrix constructed using a set of prior convolutional filters from a prior layer of the CNN, where the affinity matrix represents correlations of feature vectors associated with the prior layer. The last layer of the CNN is trained [106] with a regular classifier by error back-propagation using the training images and labels associated with the training images [104].



21: 2020/03136. 22: 2020/05/27. 43: 2021/08/24
51: C08H

71: IFP ENERGIES NOUVELLES, AGRO INDUSTRIES RECHERCHE ET DEVELOPPEMENT, INSTITUT NATIONAL DE RECHERCHE POUR L'AGRICULTURE, L'ALIMENTATION ET L'ENVIRONNEMENT

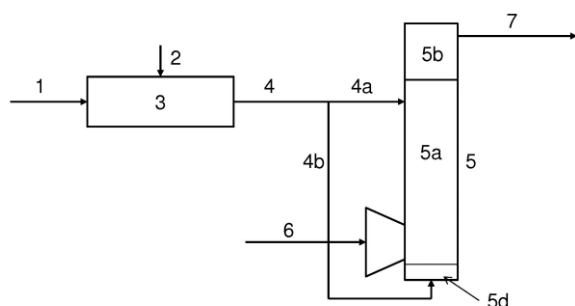
72: AYMARD, Caroline, PEROTTA, Larissa

33: FR 31: 1762610 32: 2017-12-20

54: METHOD FOR TREATING LIGNOCELLULOSIC BIOMASS

00: -

The invention concerns a method for treating lignocellulosic biomass, said method comprising the following steps: a. Preparing an impregnation liquor (4) containing a chemical catalyst intended to impregnate the biomass b. Introducing the crushed biomass (6) through an inlet of an impregnation reactor (5), said inlet being situated in a first impregnation area (5a) of said impregnation reactor that comprises two superposed areas, said first impregnation area and a second so-called dewatering area (5b) above the impregnation area c. Introducing the liquor (4a) through a first liquor inlet situated in said first impregnation area (5a) of the reactor, d. Introducing said liquor (4b) into said reactor through a second liquor inlet in another area of the reactor (5d) situated below the biomass inlet in the first impregnation area (5b). The invention also concerns the facility for implementing the method.



21: 2020/03177. 22: 2020/05/28. 43: 2021/08/24

51: G06F; H04L; G06Q

71: BLOCKCHAIN IT SOLUTIONS PTY LTD

72: ROBISON, Zackery

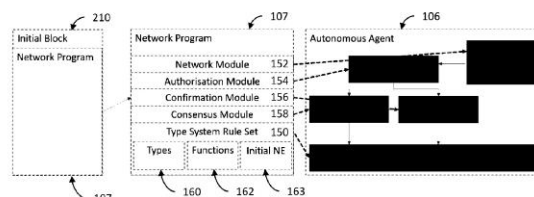
33: AU 31: 2017905067 32: 2017-12-19

54: A SYSTEM AND METHOD FOR IMPLEMENTING A COMPUTER NETWORK

00: -

A method for implementing a private computer network over which digital assets can be securely managed, the method comprising: implementing an

autonomous network agent on each of a plurality of network devices that are communicable over a digital communications medium, the autonomous network agent being operable to execute a network program that is embodied as program code in a blockchain that is stored and synchronised by the respective network devices, the network program defining permissible network defined digital asset types and corresponding functions.



21: 2020/03199. 22: 2020/05/29. 43: 2021/09/14

51: E02F; F16G

71: VAN REENEN STEEL (PTY) LTD

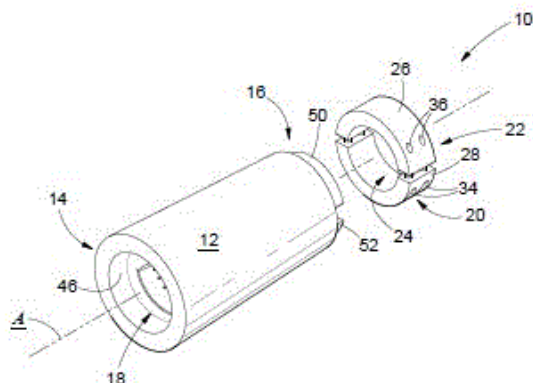
72: BAM, Campbell Alan, LEGG, Tyrone

33: ZA 31: 2019/01394 32: 2019-03-06

54: LINE CONNECTOR

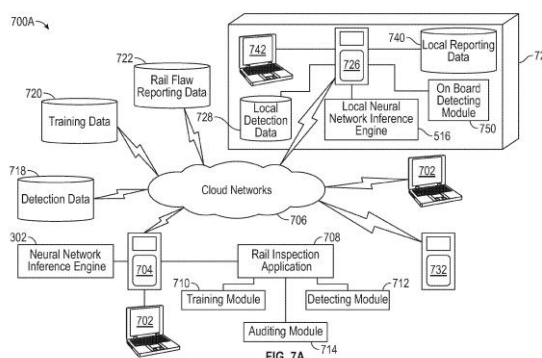
00: -

This invention relates to a self-seating line connector 10 suitable for securing a line 100 to an object. The connector 10 comprises a sleeve 12 extending along an axis A and having a first end 14, a second end 16 being opposite the first end 14, and a bore 18 extending along the axis A between the first and second ends 14, 16 and through which the line is operatively received; attachment means 20 that is attachable to the line 100; and a wedge arrangement 38 for seating co-axially in-between the sleeve 12 and the line 100.



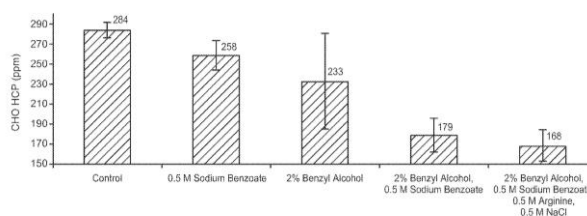
21: 2020/03212. 22: 2020/05/28. 43: 2021/09/14
 51: B61D; B61K; G01N
 71: SPERRY RAIL HOLDINGS, INC.
 72: GILBERT, David Henry
 33: US 31: 15/826,780 32: 2017-11-30
54: SYSTEM AND METHOD FOR INSPECTING A RAIL USING MACHINE LEARNING
 00: -

An aspect includes a vehicle that includes rail inspection sensors configured for capturing transducer data describing the rail, and a processor configured for receiving and processing the transducer data in near-real time to determine whether the captured transducer data identifies a suspected rail flaw. The processing includes inputting the captured transducer data to a machine learning system that has been trained to identify patterns in transducer data that indicate rail flaws. The processing also includes receiving an output from the machine learning system, the output indicating whether the captured transducer data identifies a suspected rail flaw. An alert is transmitted to an operator of the vehicle based at least in part on the output indicating that the captured transducer data identifies a suspected rail flaw. The alert includes a location of the suspected rail flaw and instructs the operator to stop the vehicle and to perform a repair action.



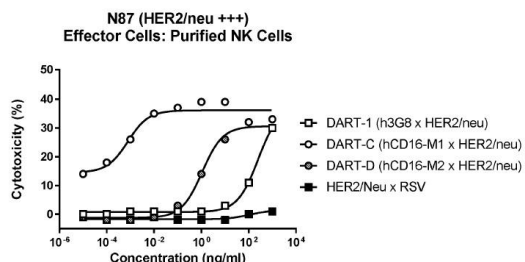
21: 2020/03440. 22: 2020/06/09. 43: 2021/09/06
 51: C07K
 71: GENZYME CORPORATION
 72: BEIGIE, Carl A.
 33: US 31: 62/609,214 32: 2017-12-21
 33: US 31: 62/694,387 32: 2018-07-05
54: METHODS FOR ENHANCED REMOVAL OF IMPURITIES DURING PROTEIN A CHROMATOGRAPHY
 00: -

Provided herein are methods relating to the purification of a polypeptide comprising an Fc region (e.g., an antibody) via protein A chromatography; methods relating to the use of a wash solution comprising a benzoate salt and/or benzyl alcohol during protein A chromatography; and methods of adjusting a harvest using sodium benzoate prior to protein A chromatography.



21: 2020/03445. 22: 2020/06/09. 43: 2021/10/08
 51: A61K; C07K
 71: MACROGENICS, INC.
 72: Gundo DIEDRICH, Liqin LIU, Hua Watson LI, Leslie, S. JOHNSON
 33: US 31: 62/597,800 32: 2017-12-12
54: BISPECIFIC CD 16-BINDING MOLECULES AND THEIR USE IN THE TREATMENT OF DISEASE
 00: -

The present invention is directed to molecules (e.g., an antibody, a diabody, an scFv, an antibody, a TandAb, etc.) capable of binding an epitope of human CD16 (a "CD16 Binding Molecule"). The present invention is further directed to CD 16 Binding Molecules that are capable of binding an epitope of human CD16 and one or more epitope(s) of a Disease Antigen ("DA") (e.g., a "CD16 x DA Binding Molecule"). The present invention is particularly directed to such CD16 x DA Binding Molecules that are antibodies, or that comprise an Epitope Binding Domain thereof, or are diabodies (including DART® diabodies), bispecific antibodies, TandAbs, other multispecific binding molecules (e.g., trivalent TRIDENT™ molecules), etc. The invention particularly concerns CD16 x DA Binding Molecules that are capable of binding a Disease Antigen that is a Cancer Antigen or a Pathogen-Associated Antigen in addition to being able to bind CD 16. The invention particularly concerns the use of such CD16 and CD16 x DA Binding Molecules in the treatment of cancer and pathogen-associated diseases. The present invention is also directed to pharmaceutical compositions that comprise such molecule(s).

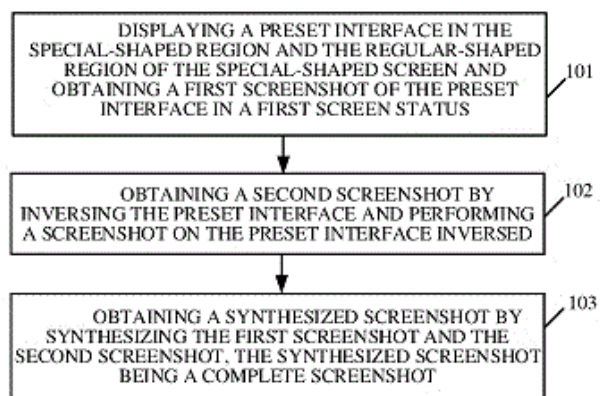


21: 2020/03477. 22: 2020/06/10. 43: 2021/08/17
51: G06F
71: GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
72: ZHANG, HAIPING, ZHOU, YIBAO
33: CN 31: 201711311226.3 32: 2017-12-11
54: METHOD FOR SCREENSHOT AND RELATED PRODUCTS

00: -

A method for screenshot and related products are provided, which are applicable to an electronic device. The method for screenshot includes the following steps: displaying a preset interface in a special-shaped region and a regular-shaped region of a special-shaped screen and obtaining a first

screenshot of the preset interface in a first screen status (101); obtaining a second screenshot by inverting the preset interface and performing a screenshot on the preset interface inverted (102); obtaining a synthesized screenshot by synthesizing the first screenshot and the second screenshot, where the synthesized screenshot being a complete screenshot (103).



21: 2020/03527. 22: 2020/06/12. 43: 2021/08/24
51: A24F
71: CHINA TOBACCO YUNNAN INDUSTRIAL CO., LTD
72: TANG, Jianguo, ZHENG, Xudong, LI, Zhiqiang, SHANG, Shanzhai, HAN, Jingmei, LEI, Ping, WANG, Chengya, WANG, Ru, ZENG, Xu, YUAN, Dalin, CHEN, Yongkuan, MIAO, Mingming
33: JP 31: 2017-188393 32: 2017-09-28
54: AUTOMATICALLY RESETTABLE SMOKING SET

00: -

Disclosed is an automatically resettable smoking set, comprising the following components: an outer upper housing (1), a cigarette cup (3) provided inside the outer upper housing (1), a push-button (5), a spring (2), and the like. The cigarette cup (3), the spring (2) and the outer upper housing (1) can be disassembled and replaced as a whole, and the cigarette cup (3) can extend out of the outer upper housing (1) at a distance to pull out and unload the cigarette and then automatically reset, and the cigarette cup (3) is hidden inside the outer upper housing (1), which can avoid excessive temperature of the cigarette cup (3) being exposed and burning the user, and avoid the risk of losing the cigarette cup (3).

21: 2020/03551. 22: 2020/06/12. 43: 2021/09/06

51: G06K; H04N; G06Q

71: Dae Hoon KIM

72: KIM, Dae Hoon

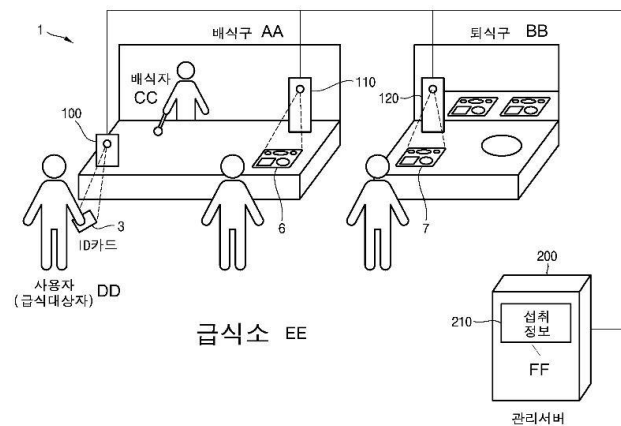
33: KR 31: 10-2017-0151469 32: 2017-11-14

54: MEAL SERVICE MANAGEMENT SYSTEM AND OPERATING METHOD THEREFOR

00: -

A meal service management system is disclosed.

More specifically, the present invention relates to a meal service management system and an operating method therefor, the system being capable of providing information on food ingested by a user to whom a meal service is to be provided and customized information related thereto, and managing food leftover in a meal service. According to an embodiment of the present invention, a scanner device is used such that a user to whom a meal service is to be provided and a food tray before and after meals are identified, and thus a meal service amount and a leftover food amount are acquired, and leftover food information of each user and useful information associated therewith are provided on the basis of the same, and thus users can easily determine their eating habits, nutritional status and the like and the users can be induced to attempt reducing leftover food by themselves.



3 ... ID card

200 ... Management server

AA ... Food distribution counter

BB ... Dish return counter

CC ... Food distributor

DD ... User (to whom meal service is to be provided)

EE ... Meal service facility

FF ... Ingestion information

71: LUMIRADX UK LTD

72: SHEN, Daiwei, KRAYNACK, Bryan, PEREZ, Victor, PROVINS, Jarrod

33: GB 31: 1800109.9 32: 2018-01-04

54: IMPROVEMENTS IN OR RELATING TO AMPLIFICATION OF NUCLEIC ACIDS

00: -

Disclosed is a method of performing a non-isothermal nucleic acid amplification reaction, the method comprising the steps of: (a) mixing a target sequence with one or more complementary single stranded primers in conditions which permit a hybridisation event in which the primers hybridise to the target, which hybridisation event, directly or indirectly, leads to the formation of a duplex structure comprising two nicking sites disposed at or near opposite ends of the duplex; and performing an amplification process by; (b) using a nicking enzyme to cause a nick at each of said nicking sites in the strands of the duplex; (c) using a polymerase to extend the nicked strands to as to form newly synthesised nucleic acid, which extension with the polymerase recreates nicking sites; (d) repeating steps (b) and (c) as desired so as to cause the production of multiple copies of the newly synthesised nucleic acid; characterised in that the temperature at which the method is performed is non-isothermal, and subject to shuttling, a plurality of times, between an upper temperature and a lower temperature during the amplification process of steps (b)-(d), wherein at the upper temperature, one of said polymerase or nicking enzyme is more active than the other of said enzymes, such that there is a disparity in the activity of the enzymes, and at the lower temperature the disparity in the activity of the enzymes is reduced or reversed.

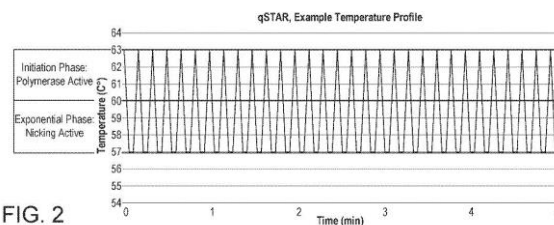


FIG. 2

21: 2020/03620. 22: 2020/06/17. 43: 2021/10/08

51: B01D

71: CPPE CARBON PROCESS & PLANT ENGINEERING S.A.

72: Alain STRICKROTH

21: 2020/03618. 22: 2020/06/17. 43: 2021/08/24

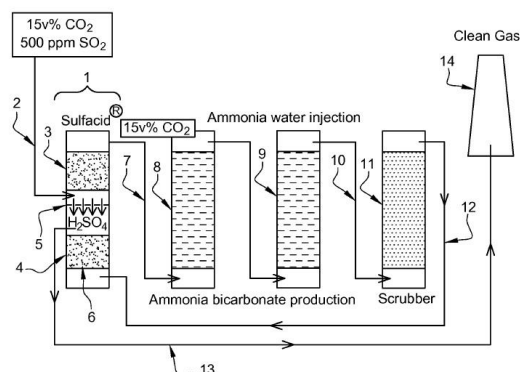
51: C12Q

33: LU 31: 100 469 32: 2017-10-09

54: ELIMINATION OF SO₂ AND CO₂ FROM A GAS

00: -

The present invention concerns a process to treat / clean a gas, containing SO₂, CO₂ and O₂ comprising the steps of: a. Bringing the gas in contact with an activated carbon catalyst, converting SO₂ to SO₃ / H₂SO₄ on the activated carbon catalyst, washing the SO₃ / H₂SO₄ from the activated carbon catalyst to obtain a sulfuric acid solution and a SO₂ depleted gas; b. Bringing the SO₂ depleted gas in contact with an aqueous ammonia solution wherein CO₂ is converted to obtain a SO₂ and CO₂ depleted gas containing ammonia; c. Bringing the SO₂ and CO₂ depleted gas containing ammonia in contact with the sulfuric acid solution obtained in step a. to form a solution containing ammonium sulfate and a treated, clean gas.



21: 2020/03701. 22: 2020/06/19. 43: 2021/09/06

51: G01N

71: GENZYME CORPORATION

72: MORGAN, Christopher, ZHANG, Xiaokui

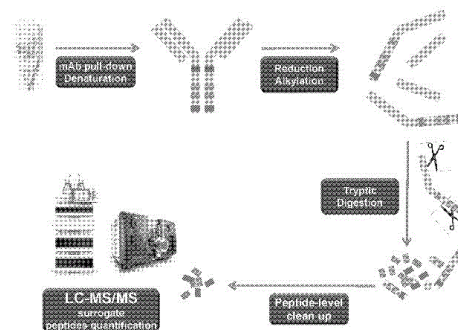
33: US 31: 62/617,080 32: 2018-01-12

54: METHODS FOR THE QUANTITATION OF POLYPEPTIDES

00: -

Provided are methods for quantitating an amount of a polypeptide that comprises a portion of an antibody present in a sample (e.g., a plasma or serum sample) wherein the antibody comprises a constant region (e.g., a heavy chain or light chain constant region) that comprises an engineered mutation.

FIG. 18



21: 2020/03704. 22: 2020/06/19. 43: 2021/09/06

51: B04B; E21B

71: SPINEX PTY LTD

72: WILLIAMS, David

33: AU 31: 2018900483 32: 2018-02-15

33: AU 31: 2018903391 32: 2018-09-10

54: METHOD AND APPARATUS FOR REMOVING PARTICULATES FROM A FLUID

00: -

An apparatus (10) for removing particulates from a fluid is described. The apparatus (10) includes a rotatable vessel (12) for receiving a dirty fluid containing the particulates in suspension, the vessel (12) having a plurality of side walls (14) arranged to form a polygonal cross-sectional shape in a plane orthogonal to an axis of rotation of the vessel. The vessel (12) has a fluid inlet port (16) through which the dirty fluid enters the vessel, and a fluid outlet port (18) through which a clean fluid exits the vessel after removal of particulates. The apparatus (10) also comprises a solids discharge port (20) provided at each of the vertices of the polygonal cross-section wherein, in use, when the vessel is rotated the particulates in the fluid entering the vessel (10) migrate to the vertices, from where they can be discharged through the discharge ports.

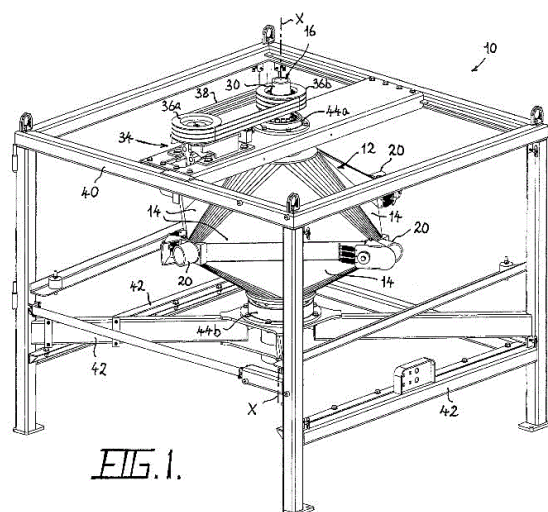


FIG. 1.

21: 2020/03763. 22: 2020/06/22. 43: 2021/09/06
 51: C22B
 71: LOCUS IP COMPANY, LLC
 72: FARMER, Sean, ALIBEK, Ken,
 MOLDAKOZHAYEV, Alibek, IBRAGIMOVA, Samal
 33: US 31: 62/610,581 32: 2017-12-27
**54: ENVIRONMENTALLY-FRIENDLY
 COMPOSITIONS AND METHODS FOR
 EXTRACTING MINERALS AND METALS FROM
 ORE**

00: -

The subject invention provides safe, environmentally-friendly, compositions and methods for extracting minerals and/or metals from ore. More specifically, the subject invention provides for bioleaching using a composition comprising one or more biosurfactant-producing microorganisms and/or microbial growth by-products. In specific embodiments, the composition comprises biosurfactant-producing yeasts and/or their growth by-products.

21: 2020/03876. 22: 2020/06/25. 43: 2021/08/16
 51: E21B
 71: CATERPILLAR GLOBAL MINING EQUIPMENT LLC
 72: HUDSON, CHARLES T, LAREAU, RICHARD J,
 SCOTT, GREGORY
 33: US 31: 15/846,842 32: 2017-12-19
**54: PLATFORM BASED DRILL CAPABLE OF
 NEGATIVE ANGLE DRILLING**

00: -

A platform based drill includes a drilling platform (18) including a frame structure (20) with first and second opposite ends (32, 34), and first and second

opposite sides (33, 35). A mast (30) supported on a pivotal connection (46) to the drilling platform adjacent the first end of the frame structure includes an upper portion (31) extending above the pivotal connection, and a lower portion (53) extending below the pivotal connection. An adjusting mechanism (40) permits the mast to be pivotally adjusted to a negative drilling angle whereby the upper portion of the mast leans in a direction extending away from the second end and toward the first end.

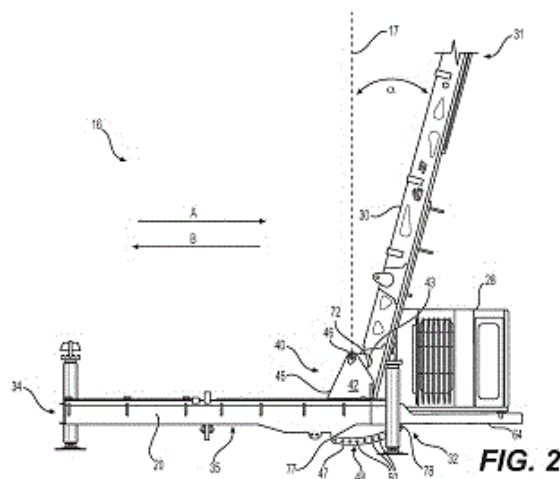


FIG. 2

21: 2020/03892. 22: 2020/06/24. 43: 2021/08/30
 51: A61K; C07K; A61P
 71: I-MAB BIOPHARMA US LIMITED
 72: CUI, Feifei, FANG, Lei, GUO, Bingshi, WANG,
 Zhengyi, ZANG, Jingwu
 33: CN 31: PCT/CN2018/075477 32: 2018-02-06
**54: ANTIBODIES TO T CELL IMMUNORECEPTOR
 WITH IG AND ITIM DOMAINS (TIGIT) AND USES
 THEREOF**

00: -

The present disclosure provides antibodies and fragments thereof having specificity to a human T cell immunoreceptor with Ig and ITIM domains (TIGIT) protein. Methods of using the antibodies or fragments thereof for treating and diagnosing diseases such as cancer and viral infections are also provided.

21: 2020/03908. 22: 2020/06/26. 43: 2021/09/06
 51: C22B
 71: BHP CHILE INC

72: BARIOS ORMEÑO, Damaso, CHIBWANA, Clement Chilowa, STRAUSS, Johannes Mattheus, RORKE, Gary Vernon

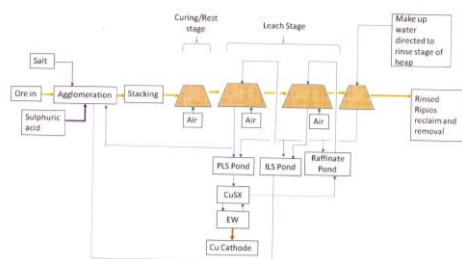
33: ZA 31: 2017/08731 32: 2017-12-21

33: ZA 31: 2018/00345 32: 2018-01-18

54: ACID BALANCE IN A CHLORIDE HEAP LEACH

00: -

A method of controlling the acid balance in a high chloride heap leach process to maximise the copper dissolution in a cure step and to increase overall copper recovery which include an agglomeration stage in which acid and process solutions are combined with the ore prior to stacking to form a heap followed by a cure phase to leach a portion of the copper in the ore in the heap followed by an irrigated leach phase in which the remaining copper minerals are leached and copper is recovered from a pregnant leach solution by a solvent extraction step followed by an electrowinning step wherein the acid concentration in the pregnant leach solution which reports to the solvent extraction step is less than 10 g/L to allow effective copper recovery from the pregnant leach solution in the solvent extraction step.



21: 2020/03938. 22: 2020/06/29. 43: 2021/08/24

51: B60K; B60S

71: SHANGHAI DIANBA NEW ENERGY TECHNOLOGY CO., LTD., AULTON NEW ENERGY AUTOMOTIVE TECHNOLOGY GROUP
72: ZHANG, Jianping, HUANG, Chunhua, ZOU, Rui, WAN, Libin, ZHOU, Junqiao

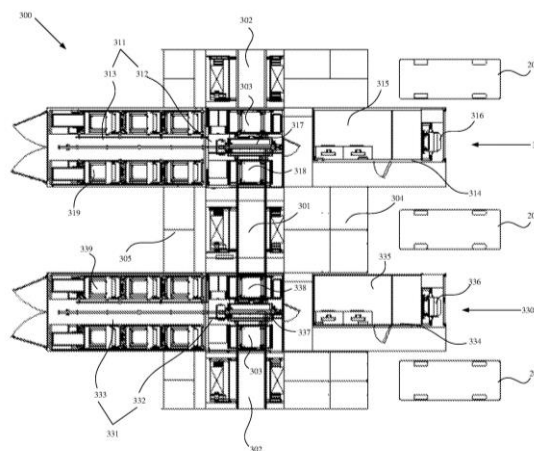
33: CN 31: 201711240305.X 32: 2017-11-30

54: BATTERY SWAPPING STATION AND CONTROL METHOD THEREFOR

00: -

Disclosed are a battery swapping station and a control method therefor. The battery swapping station comprises: a first charging compartment and a second charging compartment; a first battery

swapping platform, the first battery swapping platform being arranged between the first charging compartment and the second charging compartment; a first shuttle and a second shuttle, both of which respectively travel back and forth between the first charging compartment, the second charging compartment, and the first battery swapping platform; and a control unit, the control unit being electrically connected to the first shuttle and to the second shuttle, used for controlling the first shuttle and the second shuttle to perform the following operation: when operating a same vehicle on the first battery swapping platform, if the first shuttle is executing either operation of battery unmounting or battery mounting, the second shuttle executes the other operation of battery unmounting or battery mounting. The battery swapping station and the control method therefor, by means of alternating operations of the first shuttle and the second shuttle, reduces the waiting time for vehicles when swapping batteries, thus increasing the battery swapping efficiency of the battery swapping station.



21: 2020/03939. 22: 2020/06/29. 43: 2021/09/06

51: A61K; C07D; A61P

71: NOVARTIS AG

72: ZHU, Saijie, CHAI, Yongshuai, GODTFREDSEN, Sven Erik, KAGAN, Mark, LIU, Yugang, PRASHAD, Mahavir, WANG, Zhaoyin

33: CN 31: PCT/CN2018/075515 32: 2018-02-07

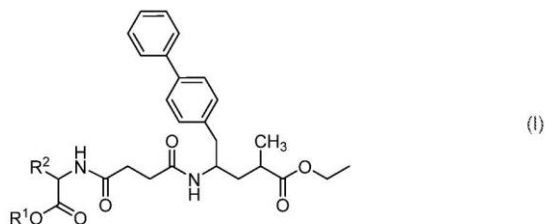
33: CN 31: PCT/CN2018/075791 32: 2018-02-08

54: SUBSTITUTED BISPHENYL BUTANOIC ESTER DERIVATIVES AS NEP INHIBITORS

00: -

The present disclosure provides a compound of Formula (I); or a pharmaceutically acceptable salt

thereof, wherein R1 and R2 manufacturing the compounds of the disclosure, and its therapeutic uses. The present disclosure further provides pharmaceutical composition of the compounds of the disclosure and a combination of pharmacologically active agents and a compound of the disclosure.



21: 2020/03941. 22: 2020/06/29. 43: 2021/10/08
51: A61B

71: SREE CHITRA TIRUNAL INSTITUTE FOR MEDICAL SCIENCES AND TECHNOLOGY

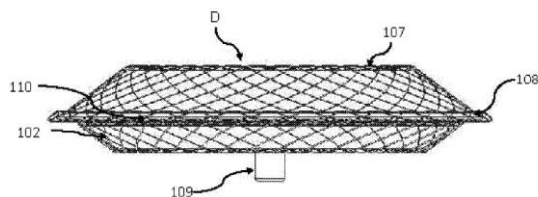
72: Sujesh SREEDHARAN, Jijo JERARD, Liji Geetha VIJAYAN, Bijulal SASIDHARAN

33: IN 31: 201741036490 32: 2017-10-13

54: IMPLANTABLE ATRIAL SEPTAL DEFECT OCCLUSION DEVICE WITH WOVEN CENTRAL SECTION ON LEFT ATRIAL FLANGE

00: -

The present invention relates to a device (D) for occluding atrial septal defect. Non-woven wires are introduced in one or more stages, with each stage interspaced with one or more braids and braided together with the wires from the woven centre and earlier stages to form the device (D). The transcatheter device (D) has two discs (101, 102) one a hub-less disc incorporating a woven central section on the left atrial side and the other disc on the right atrial side with a connecting neck (110) braided from wires. The device (D) has thrombogenic material in either discs (101, 102). A ridge (108) is configured on the periphery of either the left atrial disc or right atrial disc or both discs to improve structural stability of the device and provides enhanced elapsing force onto the septum reducing chances of migration.



21: 2020/03984. 22: 2020/06/30. 43: 2021/08/19
51: A01H

71: Jiangsu Vocational College of Agriculture and Forestry

72: LIANG, Huimin, LIANG, Dong, LIU, Yan, HAN, Peng, HU, Delong, ZHOU, Xingyuan, XIA, Yang, WU, Xuan

33: CN 31: 201810117564.1 32: 2018-02-06

54: HIGH-FREQUENCY SOMATIC EMBRYO REGENERATION GROWTH MEDIUM WITHOUT GERMLASM GENOTYPE RESTRICTION AND APPLICATION THEREOF

00: -

Disclosed by the present invention is a somatic embryo induction growth medium, comprising a modified MS growth medium, 2-4mg/L2, 4-D, 0.2mg/L NAA, 0.1mg/L6-BA, 40g/L saccharose, and 0.7% agar, having a pH value of 5.8-6.0. Also disclosed by the present invention are an embryoid proliferation growth synthetic growth medium and a high-frequency somatic embryo regeneration growth medium without a germplasm genotype restriction. Also disclosed by the present invention are the somatic embryo induction growth medium and an application of the synthetic growth medium. In the present invention, there is excellent coordination of such factors as: selection of a suitable explant, and prompt adjustment of the explant, the growth medium formula, the hormone component concentration, and the corresponding growth conditions on the basis of key developmental stages. This effectively overcomes the problem of different species (breeds) and genotype restrictions and the problem of high-frequency somatic embryo regeneration when culturing *Zoysia japonica*, significantly increasing the frequency of somatic embryogenesis and the frequency of plant regeneration.

21: 2020/04257. 22: 2020/07/10. 43: 2021/08/16
51: G06T

71: UPONOR OYJ

72: KESTI, Tero

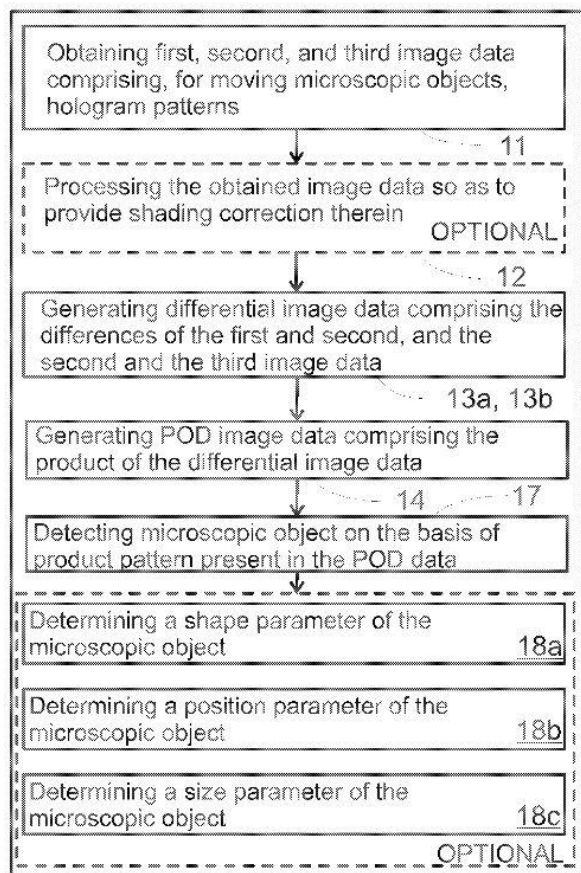
33: EP 31: 17206391.9 32: 2017-12-11

54: DETECTING MICROSCOPIC OBJECTS IN FLUIDS

00: -

A method (10) utilizes first, second, and third image data originating from first, second, and third digital image frames, respectively, captured sequentially in time of a sample volume containing a fluid possibly

comprising moving microscopic objects while illuminating the sample volume by coherent light, each image data comprising, for a moving microscopic object of foreign object present in the sample volume, a hologram pattern (11); and comprises automatically generating first differential image data comprising the difference of the first and the second image data, (13a); automatically generating second differential image data comprising the difference of the second and the third image data (13b); automatically generating product of difference (POD) image data comprising the product of the first and the second differential image data, (14); and automatically detecting the presence of moving microscopic object(s) in the sample volume on the basis of product pattern(s) present in the POD image data (17).

**Fig. 1**

21: 2020/04279. 22: 2020/07/13. 43: 2021/07/30
51: A47C; B29C
71: Intex Marketing Ltd.

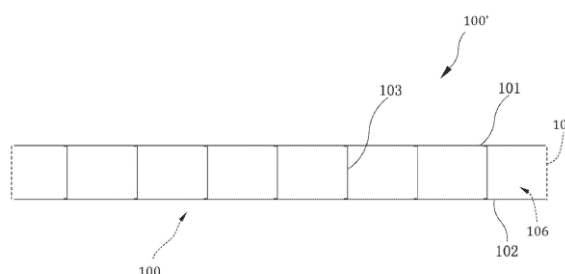
72: HUANG, Zhi Xiong, LI, Hong Wen, HSU, Yaw Yuan

33: CN 31: 201711339752.0 32: 2017-12-14

54: AUTOMATED METHOD AND SYSTEM FOR PRODUCING AN INFLATABLE PRODUCT

00: -

An automated system and method are disclosed for producing an inflatable product (100) having a first sheet, a second sheet, and a plurality of tensioning structures (1031) between the first and second sheets. The system includes an upstream tensioning structure production subsystem that produces the tensioning structures and a downstream preassembly production subsystem that couples the tensioning structures to the first and second sheets. The subsystems may operate simultaneously to produce the inflatable product in an automated, efficient, and repeatable manner.



21: 2020/04347. 22: 2020/07/15. 43: 2021/07/30

51: G01N

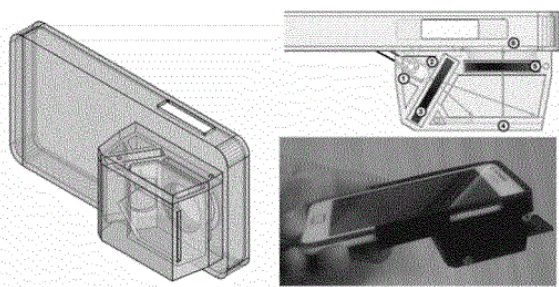
71: BUNDESREPUBLIK DEUTSCHLAND, VERTRETEN DURCH DIE BUNDESMINISTERIN FÜR WIRTSCHAFT UND ENERGIE, DIESE VERTRETEN DURCH DEN PRÄSIDENTEN DER BUNDESANSTALT FÜR MATERIALFORSCHUNG UND- PRÜFUNG (BAM)

72: GOTOR, Raúl, BELL, Jérémy, RURACK, Knut 54: DETERMINATION OF ADULTERATED DIESEL FUEL USING AN ENVIRONMENTALLY SENSITIVE PHOTOLUMINESCENT MOLECULAR PROBE

00: -

A method for detection of an adulterated diesel fuel in a sample is disclosed. The method includes contacting a sample with a molecular probe, the molecular probe having a photoluminescence which is environmentally sensitive; collecting the photoluminescence from the molecular probe; and determining whether the photoluminescence is indicative of adulterated diesel fuel. A test strip for

the detection of adulterated diesel fuel in a sample is disclosed, comprising a molecular probe embedded in a substrate and/or immobilized to the substrate, the molecular probe having a photoluminescence which is environmentally sensitive to adulterated diesel fuel. The method and test strips are designed to be robust, portable, and within the capabilities of untrained personnel.



21: 2020/04471. 22: 2020/07/20. 43: 2021/09/06
51: G10L

71: FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V.

72: FUCHS, Guillaume, BAYER, Stefan, MULTRUS, Markus, THIERGART, Oliver, BOUTHÉON, Alexandre, HERRE, Jürgen, GHIDO, Florin, JAEGER, Wolfgang, KÜCH, Fabian

33: EP 31: 18154749.8 32: 2018-02-01

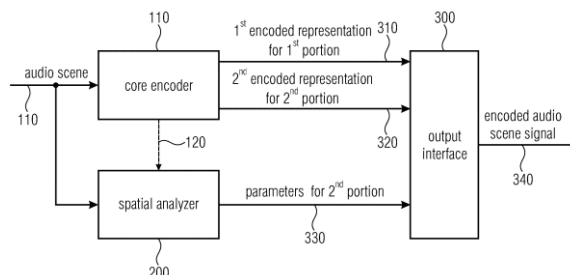
33: EP 31: 18185852.3 32: 2018-07-26

54: AUDIO SCENE ENCODER, AUDIO SCENE DECODER AND RELATED METHODS USING HYBRID ENCODER/DECODER SPATIAL ANALYSIS

00: -

An audio scene encoder for encoding an audio scene, the audio scene comprising at least two component signals, comprises: a core encoder (160) for core encoding the at least two component signals, wherein the core encoder (160) is configured to generate a first encoded representation (310) for a first portion of the at least two component signals, and to generate a second encoded representation (320) for a second portion of the at least two component signals, a spatial analyzer (200) for analyzing the audio scene to derive one or more spatial parameters (330) or one or more spatial parameter sets for the second portion; and an output interface (300) for forming the encoded audio scene signal (340), the encoded audio scene signal (340) comprising the first

encoded representation (310), the second encoded representation (320), and the one or more spatial parameters (330) or one or more spatial parameter sets for the second portion.



21: 2020/04502. 22: 2020/07/21. 43: 2021/09/28

51: B01D; F04D; F16L

71: Turret IP Pty Ltd

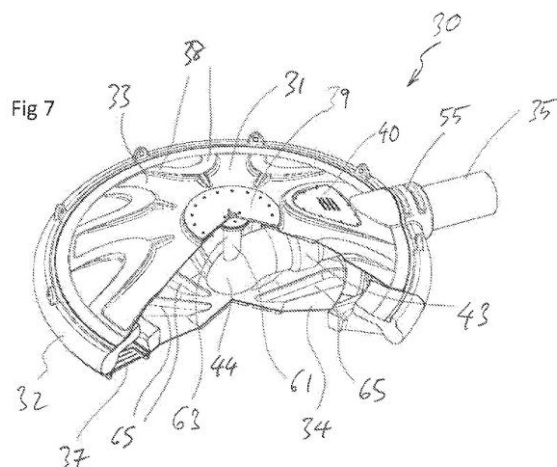
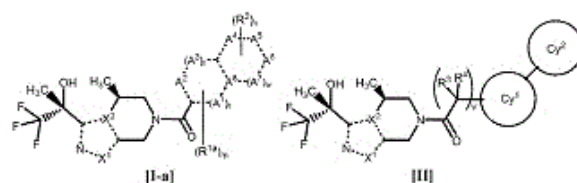
72: HAIR, Robert Bruce

33: AU 31: 2017905172 32: 2017-12-22

54: FLOATING LIQUID INTAKE

00: -

A floating liquid intake (30) for a liquid suction removal system, the liquid intake (30) comprising housing (31) defining an internal cavity (58). The housing (31) has a hollow and buoyant annular body (32), an upper cover (33) and a lower cover (34). The internal cavity (58) is formed between the upper and lower covers (33), (34). A substantially annular inlet (36) is formed in the annular body (32) for ingress of liquid into the cavity (58). The annular body (32) has a buoyancy sufficient for the liquid intake (30) to float in a liquid with the annular inlet (36) submerged below the surface of the liquid in which the liquid intake (30) is floating. A pipe 44 extends into the cavity (58) and the pipe (44) includes an inlet (45) that in use is open below the surface of the liquid within the cavity (58). The pipe extends outside of the cavity 58 for connection to a liquid suction removal system.



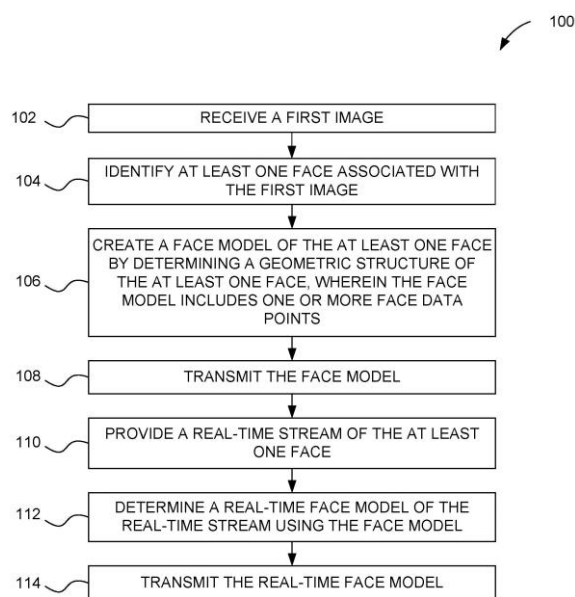
21: 2020/04548. 22: 2020/07/22. 43: 2021/08/16
 51: C07D; A61K; A61P
 71: JAPAN TOBACCO INC.
 72: MAEBA, TAKAKI, SUZAWA, KOICHI, KOTOKU,
 MASAYUKI, MASUO, RITSUKI, MOTODA, DAI,
 YAMAOKA, NOBUTAKA
 33: JP 31: 2018-016328 32: 2018-02-01
**54: NITROGENATED HETEROCYCLIC AMIDE
 COMPOUND, AND USE THEREOF FOR MEDICAL
 PURPOSES**

00: -
 The present invention provides a compound which has a PDHK-inhibiting activity and is useful for the treatment or prevention of diabetes (type 1 diabetes, type 2 diabetes, etc.), insulin resistance syndrome, metabolic syndrome, hyperglycemia, hyperlactatemia, diabetes complications (diabetic neuropathy, diabetic retinopathy, diabetic nephropathy, cataract, etc.), heart failure (acute heart failure, chronic heart failure), cardiomyopathy, myocardial ischemia, myocardial infarction, angina pectoris, dyslipidemia, atherosclerosis, peripheral arterial disease, intermittent claudication, chronic obstructive pulmonary disease, brain ischemia, stroke, mitochondrial disease, mitochondrial encephalomyopathy, cancer, pulmonary hypertension or Alzheimer's disease. The present invention relates to a compound represented by formula [I-a] or [II] or a pharmaceutically acceptable salt thereof. [In the formulae, each symbol is as defined in the description.]

21: 2020/04561. 22: 2020/07/23. 43: 2021/08/24
 51: G06K
 71: DUELIGHT LLC
 72: RIVARD, William, Guie, KINDLE, Brian, J.,
 FEDER, Adam, Barry
 33: US 31: 62/618,520 32: 2018-01-17
 33: US 31: 16/206,241 32: 2018-11-30

**54: SYSTEM, METHOD, AND COMPUTER
 PROGRAM FOR TRANSMITTING FACE MODELS
 BASED ON FACE DATA POINTS**

00: -
 A system, method, and computer program are provided for transmitting face models based on face data points. In use, a first image is received and at least one face associated with the first image is identified. Next, a face model is created of the at least one face by determining a structure of the at least one face, wherein the face model includes one or more face data points. The face model is transmitted. Additionally, a real-time stream is enabled of the at least one face, and a real-time face model is determined of the real-time stream using the face model. The real-time face model is then transmitted.

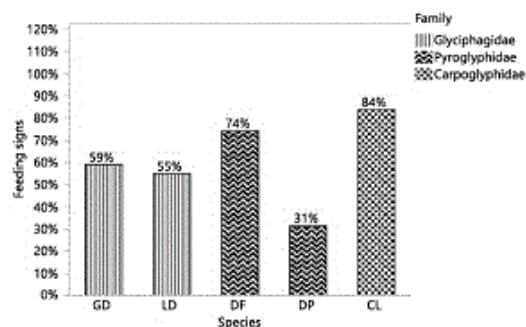


21: 2020/04639. 22: 2020/07/27. 43: 2021/08/03
 51: A01K
 71: BIO-BEE SDE ELIYAHU LTD.
 72: TABIC, ARNON, KATZ, TOM, GROSMAN, AMIR, STEINBERG, SHIMON
 33: IL 31: 257892 32: 2018-03-05

54: NOVEL METHODS FOR REARING AND CONTROLLED RELEASE OF BIOLOGICAL CONTROL AGENTS

00: -

The present invention discloses a rearing composition comprising: predatory mite population capable of oviposition for at least 2 generations comprising at least one mite species of the genus *Phytoseiulus* and a prey mite population comprising at least one species from the order Astigmata and, optionally, from the family Phytoseiidae. A method for rearing the same is also disclosed.



21: 2020/04680. 22: 2020/07/29. 43: 2021/06/29
 51: G06K; G06T

71: THE STATE OF ISRAEL, MINISTRY OF AGRICULTURE & RURAL DEVELOPMENT
 AGRICULTURAL RESEARCH ORGANIZATION

72: ROZENSTEIN, Offer, TANNY, Jose

33: US 31: 62/621,06 32: 2018-01-24

33: WO 31: PCT/IB2019/050605 32: 2019-01-24

54: METHOD AND SYSTEM FOR ESTIMATING CROP COEFFICIENT AND EVAPOTRANSPIRATION OF CROPS BASED ON REMOTE SENSING

00: -

Methods and systems estimate crop coefficients of a crop. At least one image sensor system captures a plurality of multispectral images of the crop and image data is derived from the multispectral images. At least one vegetation index of the crop is determined based on image data in at least a first spectral band. The reflectance of the crop monotonically increases and reaches a reflectance of at least 20% for at least one wavelength in the first spectral band. A crop coefficient of the crop is estimated based on the determined at least one vegetation index.

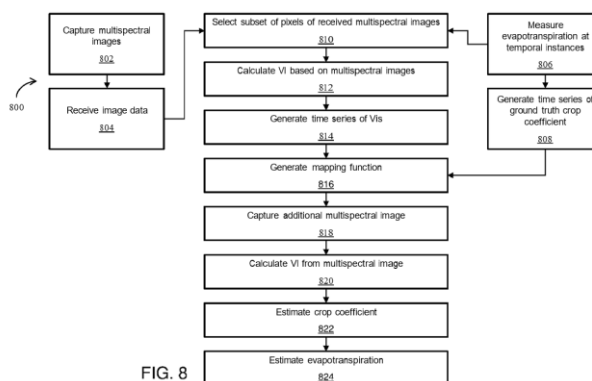


FIG. 8

21: 2020/04806. 22: 2020/08/03. 43: 2021/08/18
 51: A61J

71: Handi-Craft Company

72: REED, Mark D.

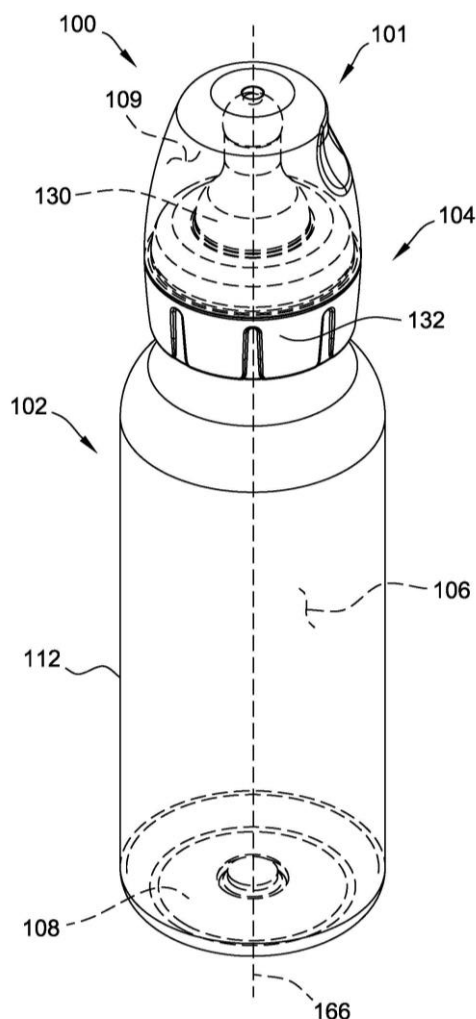
33: US 31: 62/637,804 32: 2018-03-02

54: BOTTLE ASSEMBLY

00: -

A bottle assembly includes a container having an open end, a closed end, a base portion, and a neck together defining a liquid chamber within the container. The neck has a rim defining the open end

of the container. The bottle assembly also includes a collar assembly generally defining a closure for the container. The collar assembly is configured for releasable engagement with the neck of the container over the open end thereof. The collar assembly includes a collar and a nipple. The bottle assembly further includes a cap including a closed end, an open end, and a side wall extending between the closed end and the open end together defining an interior. The cap is configured for releasable engagement with the collar assembly such that the nipple is received within the interior of the cap. In some embodiments, the bottle assembly includes a vent assembly positionable at least in part on the rim of the container to permit venting of the container during use.



21: 2020/04831. 22: 2020/08/04. 43: 2021/06/28

51: C22B

71: RELIANCE INDUSTRIES LIMITED

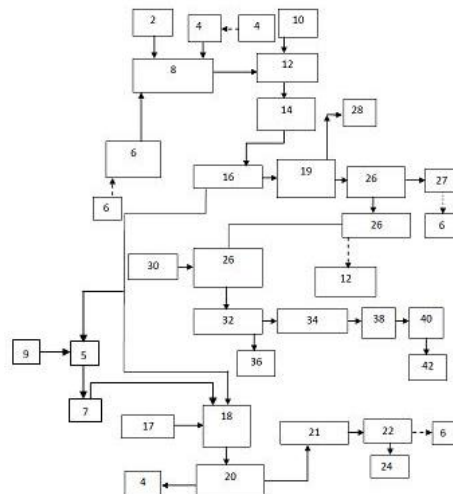
72: DAGGUPATI, Sateesh, MAJHI, Sachchit, MANDAL, Sukumar, DAS, Asit Kumar, SAPRE, AJIT, Vishwanath

33: IN 31: 201821005052 32: 2018-09-02

54: PROCESS FOR RECOVERING VANADIUM IN THE FORM OF IRON VANADATE FROM A GASIFIER SLAG

00: -

The present disclosure provides a process for recovering vanadium in the form of iron vanadate from a gasifier slag. The process comprises a step of pulverizing gasifier slag to a particle size less than 100 μm to obtain pulverized slag. The pulverized slag is soaked in water and alkali salt to obtain a slurry. The slurry is roasted in the presence of air at a temperature in the range of 750 $^{\circ}\text{C}$ to 1100 $^{\circ}\text{C}$ to obtain roasted slag. The roasted slag is leached in water heated to a temperature below its boiling point to obtain a first biphasic mixture comprising a first solid phase and a first liquid phase. The first biphasic mixture is filtered to obtain a first solid residue and a first solution comprising vanadium compounds.



21: 2020/04841. 22: 2020/08/05. 43: 2021/06/28

51: B01L

71: EFA - ENGINEERING FOR ALL LTD

72: EZRA, Yoel, MIZRAHI, Natalya

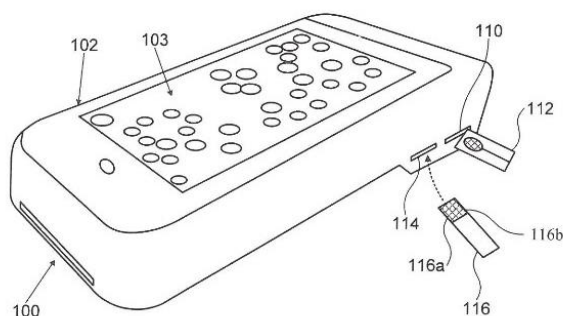
33: US 31: 16/532,558 32: 2019-08-06

54: MICROMIXER

00: -

Computerized devices provide microscopy and electrochemistry tests, performed in dual channels. The devices can be brought to the field, for on-site

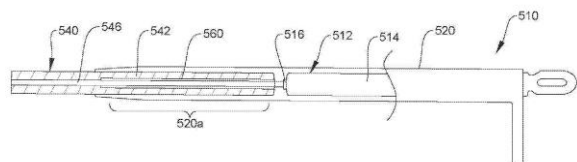
testing with instant results. The dual channels include an imaging (optical or microscopic) channel and a signal channel. Microfluidic chips are disclosed for use with the microscopy channel optics.



21: 2020/04856. 22: 2020/08/05. 43: 2021/07/29
51: B32B; H01B; H02G
71: CTC Global Corporation
72: BOSZE, Eric, WONG, Christopher, PILLING, Ian M., WEBB, William, PILLING, Douglas A.
33: US 31: 62/621,173 32: 2018-01-24

54: TERMINATION ARRANGEMENT FOR AN OVERHEAD ELECTRICAL CABLE

00: -
A termination arrangement for securing an overhead electrical cable to a dead-end structure such as a dead-end tower. The termination arrangement includes a compression sheath that is configured to be disposed between a strength member and the conductive strands of the overhead electrical cable. The compression sheath mitigates damage to the strength member that may occur when an outer metallic sleeve is compressed around the conductive strands and the conductive strands are compressed against the strength member. The arrangement is particularly useful for securing overhead electrical cables having a composite strength member to a dead-end structure.



21: 2020/04862. 22: 2020/08/05. 43: 2021/07/29
51: A61K; A61Q
71: Givaudan SA

72: EL-HABNOUNI, Sarah, AUSSANT, Emmanuel, BOCOKIC, Vladica, GUINEBRETIERE, Sandra, ROBERT, Florent

33: GB 31: 1804038.6 32: 2018-03-14

54: IMPROVEMENTS IN OR RELATING TO ORGANIC COMPOUNDS

00: -

Disclosed is a process for preparing an encapsulated fragrance composition. The composition comprises a plurality of microcapsules dispersed in a dispersion medium. The microcapsules comprise a core and a shell around the core. The process comprises the consecutive steps of: a) Providing an aqueous phase (I) comprising at least one anionically modified polyisocyanate (A); b) Providing an organic phase (II) comprising at least one fragrance ingredient; c) Mixing the aqueous phase (I) and the an organic phase (II) to obtain a mixture; d) Forming an emulsion comprising droplets of the organic phase (II) in the continuous aqueous phase (I); e) Adding at least one polyfunctional amine; f) Effecting formation of shells around the droplets formed in step d), to obtain a dispersion of microcapsules. The process comprises the additional step of adding a polyisocyanate (B), which is different from polyisocyanate (A).

21: 2020/05285. 22: 2020/08/25. 43: 2021/10/08
51: B21D; B23K

71: ARCELORMITTAL

72: Wolfram EHLING, Niko VAN DER BORGHT

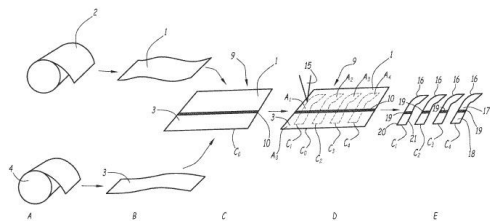
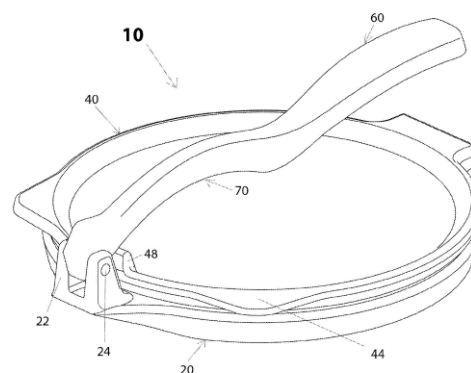
33: IB 31: PCT/IB2018/051521 32: 2018-03-08

54: METHOD FOR PRODUCING A WELDED METAL BLANK AND THUS OBTAINED WELDED METAL BLANK

00: -

The present application relates to a method of producing a welded metal blank (16), comprising the steps of : cutting a first initial metal sheet (1) and a second initial metal sheet (3) from a first (2) and second metal strip (4), joining the first and second initial metal sheets (1, 3) by welding so as to obtain an initial welded metal blank (9), the initial welded metal blank (9) comprising a weld joint (10) joining the first and the second initial metal sheets (1, 3), and cutting said initial welded metal blank (9) by a process involving metal melting so as to obtain at least one final welded metal blank (16) comprising a first metal blank portion (17) and a second metal

blank portion (18) joined by a weld joint portion (19) consisting of a portion of the weld joint (10) obtained during the joining step.



21: 2020/05417. 22: 2020/08/31. 43: 2021/06/30
51: A21B; A21C; B30B

71: MU Mecanicos Unidos S.A.S

72: ZAPATA, David

33: US 31: 15/916,377 32: 2018-03-09

54: HAND OPERATED PRESS

00: -

A hand operated press (10) for foodstuff includes a base plate assembly (20) with a moving plate assembly (40) hingedly mounted at a predetermined points of their peripheries. An actuating arm (60) is hingedly mounted to the periphery of the base plate assembly (20) at a point opposite to where moving plate assembly (40) is hingedly mounted. A concave portion (70) in the actuating arm with a concavity facing the distal end of the moving plate comes in cammingly contact avoiding a perpendicular angle of attack. A protuberance (48) extending from the distal end (47) of the moving plate assembly (40) further ensures the cammingly contact while preventing actuating arm assembly (60) to totally collapse against the base plate assembly. A curved portion adjacent to the concave portion is prevents a user's fingers from coming in contact with the base plate assembly.

21: 2020/05427. 22: 2020/08/31. 43: 2021/08/19
51: F41A

71: FN Herstal S.A.

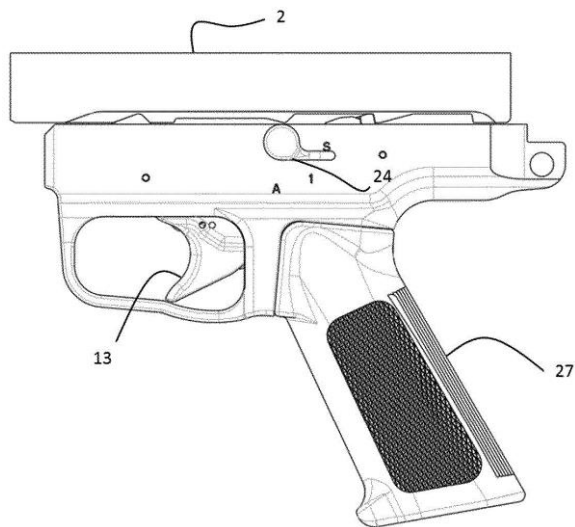
72: FRANSSEN, Pascal

33: EP(BE) 31: 18156026.9 32: 2018-02-09

54: TRIGGER MECHANISM FOR FIREARM

00: -

The present invention relates to a firearm shooting with an open breech and comprising a detent mechanism with a hammer block (5) that can block the forward movement of movable parts (2), a trigger (10) that can lift the hammer block (5) when the movable parts (2) move backwards, an action bar (12) that actuates the hammer block (5) and the trigger (10) when shooting is triggered and stopped, and a finger piece (13) linked to the action bar (12) by a disconnecter (11) that can shift from a position in which the finger piece (13) is mechanically coupled to the action bar (12) to a position in which the finger piece (13) is mechanically uncoupled from the action bar (12), the action bar (12) shifting from a shooting position to a rest position when the disconnecter (11) shifts from its coupling position to its uncoupling position so as to prevent the following shot from being fired if the finger piece (13) is maintained in the shooting position.

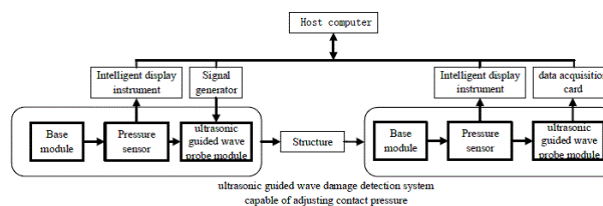


21: 2020/05455. 22: 2020/09/01. 43: 2021/10/13
 51: G01N
 71: South China University of Technology
 72: HONG, Xiaobin, ZHOU, Jianxi
 33: CN 31: 201910417708.X 32: 2019-05-20
**54: AN ULTRASONIC GUIDED WAVE DAMAGE
 DETECTION SYSTEM CAPABLE OF ADJUSTING
 CONTACT PRESSURE**

00: -

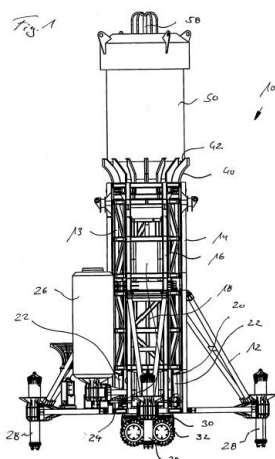
The invention discloses an ultrasonic guided wave damage detection system capable of adjusting contact pressure, which includes a host computer, a control interface and an ultrasonic guided wave damage detection device. The ultrasonic guided wave damage detection device includes a base module, an ultrasonic guided wave probe module and a pressure measuring module. The host computer is respectively connected with the pressure measuring module and the ultrasonic guided wave probe module in the ultrasonic guided wave damage detection device. It is used to control the ultrasonic guided wave damage detection device through the control interface. The base module, as the supporting structure of the detection device, is connected with the pressure measuring module, which is used for the load-bearing of the detection device and the initial positioning of the probe. The ultrasonic guided wave probe module is composed of a wedge and a voltage ceramic plate, and the piezoelectric ceramic plate is attached to the bottom edge of the wedge to excite and receive the ultrasonic guided wave. The pressure measuring

module is composed of a pressure sensor and an intelligent display instrument. The pressure sensor is connected with the intelligent display instrument to display the pressure of the pressure sensor through the intelligent display instrument, and transmit the pressure data to the host computer.



21: 2020/05475. 22: 2020/09/02. 43: 2021/10/08
 51: E02D; E02F
 71: BAUER Maschinen GmbH
 72: Leonhard WEIXLER, Peter PLATZEK, Stefan
 Michael FINKENZELLER, Kurt OSTERMEIER
 33: EP 31: 18170545.0 32: 2018-05-03
**54: UNDERWATER MINING DEVICE AND
 METHOD FOR MINING**
 00: -

The invention relates to an underwater excavation apparatus and to a method for excavating ground material, having an immersible working platform which can be placed on the bed of a body of water, a removal device for removing ground material from the bed of the body of water, an adjustment device for adjusting and introducing the removal device into the bed of the body of water, and a conveying line for conveying ground material removed away from the removal device. According to the invention, a receptacle for a conveying container is formed on the working platform, the conveying container is mounted and held detachably in the receptacle, the conveying line opens into the conveying container, ground material removed can be accommodated in the conveying container, and a separating device is provided in the conveying container.



21: 2020/05584. 22: 2020/09/09. 43: 2021/07/29
 51: A61K; A61Q
 71: Givaudan SA
 72: SCANDOLERA, Amandine, CHAPUIS, Emilie,
 REYNAUD, Romain
 33: GB 31: 1913054.1 32: 2019-09-10
54: HAIR CARE ACTIVE AGENT
 00: -

A hair care active agent comprising hydrolyzed wheat peptides is provided, which serves for conditioning the hair.

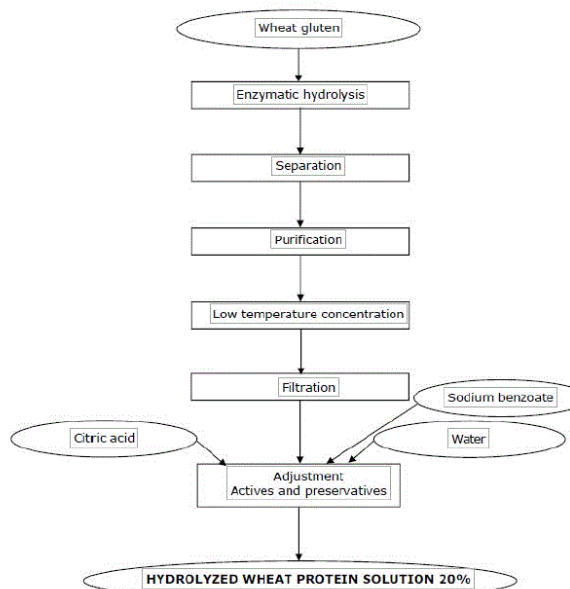


Figure 1: Flow chart: production process for hydrolyzed wheat protein solution 20%.

21: 2020/05594. 22: 2020/09/09. 43: 2021/07/29
 51: A23J B01F

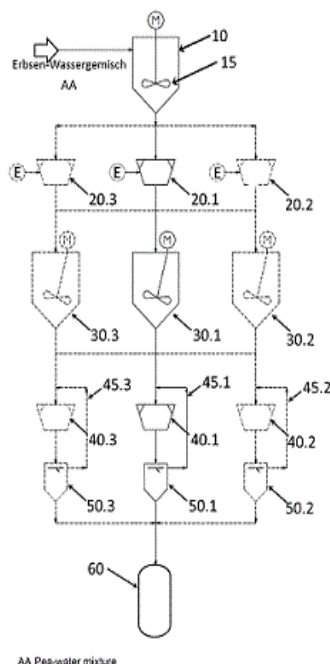
71: ENDECO GMBH

72: BERGMANN, Karl-Heinz, BUNTROCK, Reiner
 33: DE 31: 10 2018 202 275.5 32: 2018-02-14

54: METHOD AND APPARATUS FOR PROCESSING LEGUMES

00: -

The invention relates to a method and a device for processing legumes and in particular peas. The invention further relates to a method for purifying proteins from an acidic protein-containing suspension, preferably obtained by the legume processing method according to the invention.

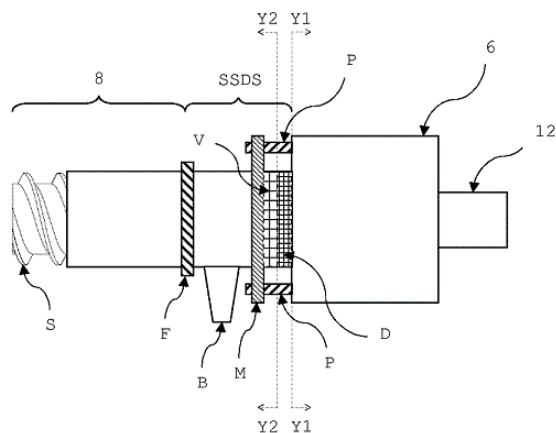


21: 2020/05595. 22: 2020/09/09. 43: 2021/07/29
 51: B29C B29B
 71: BÜHLER AG
 72: KRISCHE, Andreas, ZHUANG, Di, WUEST, Urs
 33: EP 31: 18161204.5 32: 2018-03-12
54: EXTRUDER FOR THE EXTRUSION OF FOOD OR FEED

00: -

Single screw extruder (E) for the extrusion of food or feed, comprising in the direction of flow of a product to be extruded: i) a processing section (8); ii) a bypass outlet (B); iii) a valve plate (V); iv) a die plate (D); and iv) a cutter (6). The flow of product can be directed through the valve plate under normal operating conditions of the extruder (E), and through the bypass outlet (B) during start-up of the extruder (E) or for maintenance purposes downstream of the

valve plate (V). The valve plate (V) is arranged on or in a mounting plate (M); the cutter (6) and the mounting plate (M) are provided with interacting guiding means that prevent rotation of the cutter (6) vis-a-vis the mounting plate (M); and the cutter (6) and the mounting plate (M) are mechanically fastened to each other with rotational locking means.



21: 2020/05856. 22: 2020/09/22. 43: 2021/07/29
51: A61K

71: HASSON, Sidgi Syed Anwer Abdo, AL-JABRI, Ali Abdullah Hasan, AL-SAWI, Abdulgawad Mohamed

72: HASSON, Sidgi Syed Anwer Abdo, AL-JABRI, Ali Abdullah Hasan, AL-SAWI, Abdulgawad Mohamed

54: TREATMENT OF INFECTIONS

00: -

A composition comprising solvent extract of the fruits of *Rhus coriaria* L., smooth Sumac *Rhus Glabra*, Staghorn sumac, and the roots of *Aucklandia lappa* Decne and medical uses of the composition are provided.

Serial code No.		Record of improvement in clinical features and investigations with treatment Mark for clinical features only with a tick (✓) and write the results for investigations																	
		DOSE				Day 1				Day 2				Day 3				Day 4	
1. Symptom and Sign improved		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
1.1.	Fever																		
	Chills																		
1.2.	Cough																		
1.3.	Nasal congestion																		
1.4.	Sore throat																		
1.5.	Tiredness																		
1.6.	Nausea/Vomiting																		
1.7.	Fatigue																		
1.8.	Muscle/body pain																		
1.9.	Diarrhoea																		
1.10.	Headache																		
1.11.	Appetite																		
1.12.	Taste																		
1.13.	Smell																		
1.14.	Concentration																		
1.15.	Dyspnoea																		
1.16.	Breath shortness																		
1.17.	Chest pressure																		
1.18.	Normal breathing																		
1.19.	Sleep better																		
1.20.																			

2. Record of investigations		Days Since Starting Treatment			
		1	4	7	14
2.1.	CBC				
2.2.	CRP				
2.3.	S. Ferritin				
2.4.	D. Dimers				
2.5.	LDH				
2.6.	LFT				
2.7.	RFT				
2.8.	PCR				
2.9.	Chest-Ray				
2.10.	CT Scan				

21: 2020/06008. 22: 2020/09/29. 43: 2021/08/18
51: A61K; A61P; C07D

71: FutureChem Co., Ltd.

72: CHI, Dae Yoon, LEE, Byoung Se, CHU, So Young, JEONG, Hyeon Jin, KIM, Min Hwan

33: KR 31: 10-2018-0037226 32: 2018-03-30

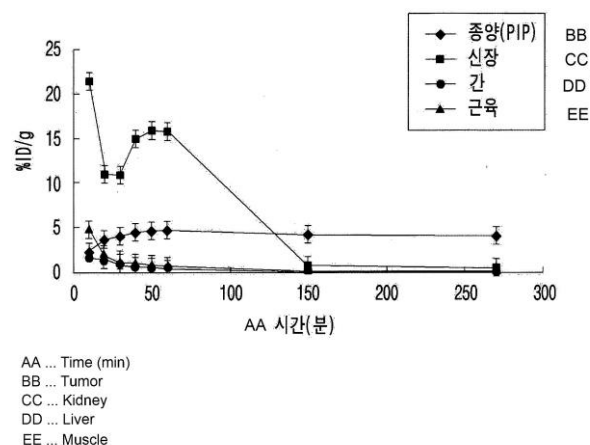
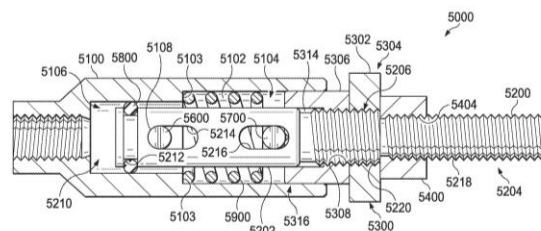
54: PSMA-TARGETED RADIOPHARMACEUTICAL FOR DIAGNOSING AND TREATING PROSTATE CANCER

00: -

The present invention relates to a pharmaceutical composition for diagnosing and treating prostate cancer, capable of targeting PSMA, and a compound provided by one aspect of the present invention has a glutamine-urea-lysine compound to which a radioactive metal-coupled chelator is structurally coupled and to which an aryl group that can additionally bind to PSMA protein is coupled. Coupling between the glutamine-urea-lysine compound and the chelator includes a polar spacer so as to serve the role of reducing in vivo nonspecific coupling and exhibit an effect of being rapidly removed from vital organs, but not from prostate cancer. These characteristics lower the radiation exposure, which is caused by a therapeutic radioisotope-coupled compound, to normal tissue

and organs, and thus reduce side effects. In addition, a compound that contains a phenyl group having a coupling force with albumin has an increased residence time in the blood, thereby becoming more accumulated in prostate cancer.

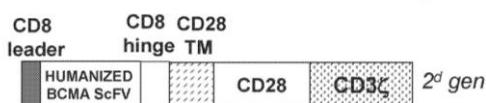
【도 1】



21: 2020/06057. 22: 2020/09/30. 43: 2021/08/19
51: A61K; A61P; C07K
71: Caribou Biosciences, Inc.
72: WU, Lijun, GOLUBOVSKAYA, Vita
33: US 31: 62/793,274 32: 2019-01-16
54: HUMANIZED BCMA ANTIBODY AND BCMA-CAR-T CELLS
00: -

The present invention is directed to a humanized BCMA single-chain variable fragment (scFv), comprising V_H having the amino acid sequence of SEQ ID NO: 3 and V_L having the amino acid sequence of SEQ ID NO: 5. The present invention is also directed to a BCMA chimeric antigen receptor fusion protein comprising from N-terminus to C-terminus: (i) a single-chain variable fragment (scFv) of the present invention, (ii) a transmembrane domain, (iii) at least one co-stimulatory domain, and (iv) an activating domain. This humanized BCMA-CAR-T cells have specific killing activity against BCMA-positive tumor cells.

Humanized BCMA ScFv-CD28-CD3ζ

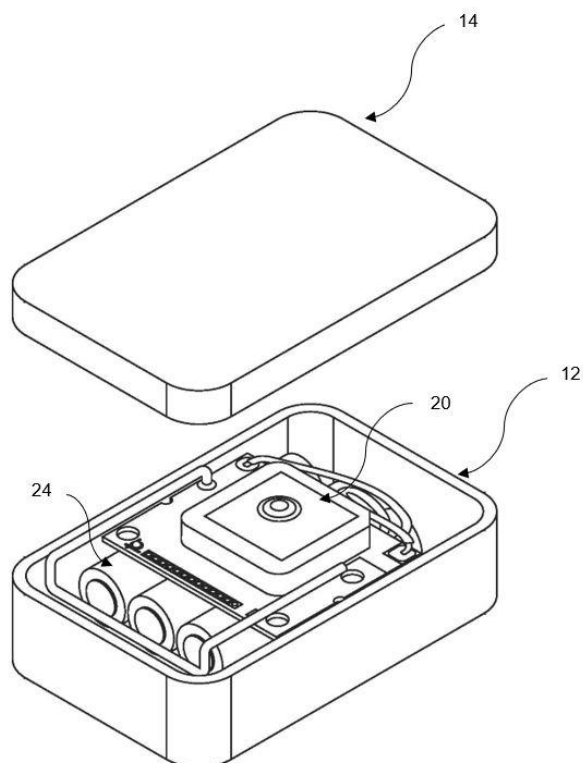


21: 2020/06112. 22: 2020/10/02. 43: 2021/07/15
51: G05B; G06F
71: LOMBARD, JUAN-PIERRE
72: LOMBARD, JUAN-PIERRE, SCHALKWYK, Sam
54: TROLLEY MONITORING SYSTEM
00: -

A trolley environment communicator adapted for use with a monitoring system for a trolley on, or within, which said communicator can be located, said communicator comprising: a watertight insulating body; and communication means disposed on, or within, said insulating body for, in use, communication of information to a controller adapted to interpret the communicated information and act thereon to monitor displacement of the trolley from a trolley storage and usage environment. The invention extends to trolley monitoring system in which the communicator is used.

21: 2020/06010. 22: 2020/09/29. 43: 2021/07/29
51: A61B
71: Texas Scottish Rite Hospital for Children
72: ROSS, John David, SAMCHUKOV, Mikhail L., CHERKASHIN, Alexander M., BIRCH, John G.
33: US 31: 15/950,166 32: 2018-04-10
54: IMPROVED DYNAMIZATION DEVICE FOR ORTHOPEDIC FIXATION DEVICE
00: -

A dynamization device may comprise a sleeve, a shaft, a dial, a contact feature, and a biasing member. The shaft may comprise an interior section partially within an inner recess of the sleeve; a flat surface on the interior section of the shaft; and a plurality of external threads on the interior section of the shaft. The dial may comprise a body disposed partially within the inner recess; an annular lip; and internal threads secured to external threads of the shaft. The contact feature has an annular geometry disposed within the inner recess of the sleeve. The biasing member may be disposed around the interior section of the shaft, and disposed between the contact feature and a shoulder within the inner recess of the sleeve. Rotation of the annular lip may provide for compressive movement of the biasing member relative to the sleeve and shaft.



21: 2020/06116. 22: 2020/10/02. 43: 2021/08/20
51: C12N

71: Kabushiki Kaisha Yakult Honsha
72: MIIDA, Satoshi, MAKINO, Yuzuru, MATSUI, Akihisa, ITO, Masahiko, MOTOKI, Yasuhiro
33: JP 31: 2018-072833 32: 2018-04-05

54: METHOD FOR PRODUCING HIGHLY VIABLE DRIED MICROBIAL CELLS

00: -

Provided is a novel technology that reduces cell damage and death through a method for producing highly viable dried microbial cells, the method being characterized by subjecting dried microbial cells to alternating temperature treatment.

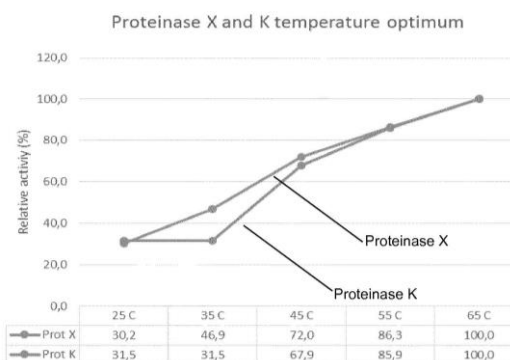
21: 2020/06186. 22: 2020/10/06. 43: 2021/08/20
51: C12N

71: ArcticZymes AS
72: STRIBERNY, Bernd Ketelsen, PEDERSEN, Cathrine, HENRIKSEN, Jørn Remi, LANES, Olav, LORENTZEN, Marit Sjø
33: GB 31: 1803654.1 32: 2018-03-07

54: THERMOLABILE PROTEINASES

00: -

The invention provides a composition comprising a proteinase or an enzymatically active fragment thereof, said proteinase comprising the amino acid sequence of SEQ ID NO: 1 or comprising an amino acid sequence which is at least about 70% identical to SEQ ID NO: 1, wherein i) the concentration of free calcium in said composition is $\leq$ about 80 μ M; or ii) the concentration of monovalent salt in said composition is $\geq$ about 20 mM. Under such conditions, the proteinases and enzymatically active fragments thereof are inducibly thermolabile. The invention further provides samples comprising one or more polypeptides and a proteinase or an enzymatically active fragment thereof, said proteinase comprising the amino acid sequence of SEQ ID NO: 1 or comprising an amino acid sequence which is at least about 70% identical to SEQ ID NO: 1, wherein i) the concentration of free calcium in said sample is $\leq$ about 80 μ M; or ii) the concentration of monovalent salt in said sample is $\geq$ about 20 mM. The invention further provides methods comprising the inactivation of such proteinases or enzymatically active fragments thereof, wherein said method comprises the step of heating the sample to inactivate said proteinase or enzymatically active fragment, and wherein i) the concentration of free calcium in said sample is $\leq$ about 80 μ M; or ii) the concentration of monovalent salt in said sample is $\geq$ about 20 mM.



21: 2020/06191. 22: 2020/10/06. 43: 2021/08/20
51: B66C; E04C

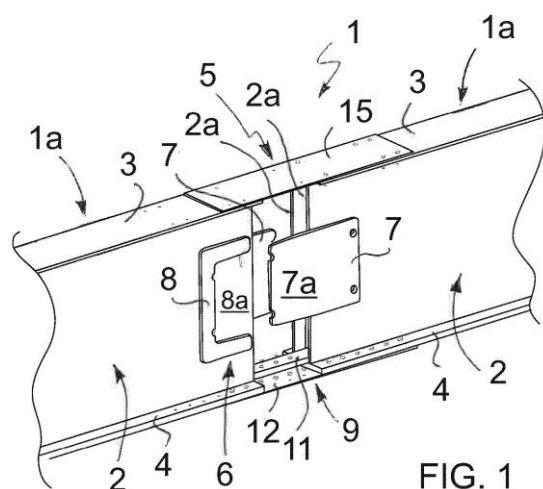
71: Konecranes Global Corporation
72: PEIPPO, Juha, KALLIOKOSKI, Kirsi
33: FI 31: 20185375 32: 2018-04-20

54: SPLICE JOINT OF CRANE MAIN GIRDER

00: -

The invention relates to a splice joint (5) of a main girder (1) of a crane, whereby the main girder (1) comprises at least two longitudinal main girder parts (1a) to be connected to each other by their ends and each having a central web (2) which comprises at least one web plate (2a), a longitudinal upper flange (3) or top plate arranged to the top part of the central web (2) as well as a longitudinal lower flange (4) which is arranged to the bottom part of the central web (3) and which protrudes from the central web (2) to its both sides. The splice joint (5) comprises, on both outer sides of the central web (2), a plate-like tongue- and-groove joint (6) receiving its the shear forces, the tongue-and-groove joint (6) in each case comprising a tongue (7) fixed to the central

web (2) of a main girder part (1a) to be joined, and a groove (8) fixed to the central web (2) of a second main girder part (1a) to be joined; and a lower flange joint (9) receiving the bending forces of the splice joint (5), whereby the tongue-and-groove joints (6) on opposite outer sides of the web (2) are arranged reversed in relation to each other, and whereby the location of the tongues and grooves (7, 8) on opposite sides of the web (2) is reverse in relation to each other.

**FIG. 1**

21: 2020/06207. 22: 2020/10/07. 43: 2021/08/20
51: C12N

71: JIANGSU ACADEMY OF AGRICULTURAL SCIENCES

72: FENG, Lei, CHEN, Li, YUN, Junwen

33: CN 31: 201810613327.4 32: 2018-08-13

54: BHK21 CELL POPULATION WITH RECONSTRUCTED INNATE IMMUNE SYSTEM, AND USE OF CELL CLONES THEREOF IN VIRUS PROLIFERATION

00: -

The present invention provides a method for enhancing virus proliferation, and establishes a BHK21 cell population with a reconstructed innate immune system for virus proliferation. This method offers a new idea for virus proliferation, expands the application range of BHK21 cells, and lays a solid foundation for the development of vaccines that can control viruses.

21: 2020/06222. 22: 2020/10/07. 43: 2021/08/17

51: A61B; A44C; A61K

71: DRZALA, MARK R, REITER, MITCHELL F

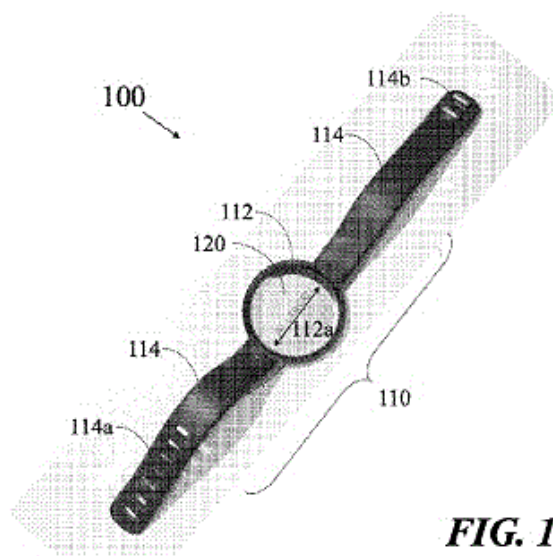
72: DRZALA, MARK R, REITER, MITCHELL F

33: US 31: 15/948,620 32: 2018-04-09

54: APPARATUS FOR ASSESSING SKIN REACTIVITY TO AN IMPLANT MATERIAL

00: -

This disclosure provides an apparatus for assessing skin reactivity to a test material, e.g., an implant material. The apparatus includes a holder (110) and a test material unit (120). The holder further comprises a test portion (112) and a holding portion (114). The test portion comprises a concave housing compartment (112a) with an opening facing towards the skin of a subject when the apparatus is worn. The concave housing compartment is adapted to receive and contact the test material unit therein. The periphery of the test material unit matches the shape of an inner surface of the concave housing compartment. The holding portion is configured to cause the test material unit to directly contact with the skin, without using an adhesive. The test material unit comprises an implant material and is mounted to the concave housing compartment of the holder. A method of assessing skin reactivity is also provided.

**FIG. 1**

21: 2020/06339. 22: 2020/10/13. 43: 2021/08/20

51: G06F; G06Q

71: S.G.A. Innovations Ltd.

72: SHTENDEL, Yuval, GAL, Shmuel, TSIRLIN,

Alexey, SHTENDEL, Ronit, SHTENDEL, Noa

33: US 31: 62/649,589 32: 2018-03-29

33: US 31: 62/649,590 32: 2018-03-29

54: SYSTEM, DEVICE AND METHODS FOR EXCHANGE OF MESSAGE/FILE OVERTLY AND COVERTLY AND CREATION OF DYNAMIC SUBGROUPS

00: -

The present invention provides systems, devices and methods for dynamic communication of overtly and covertly data sections in a message, wherein the covertly data may be selectively manipulated by the sender of the message and wherein the dynamic communication includes creation of one or more subgroups.

21: 2020/06342. 22: 2020/10/13. 43: 2021/07/29
51: A61F

71: Edwards Lifesciences Corporation

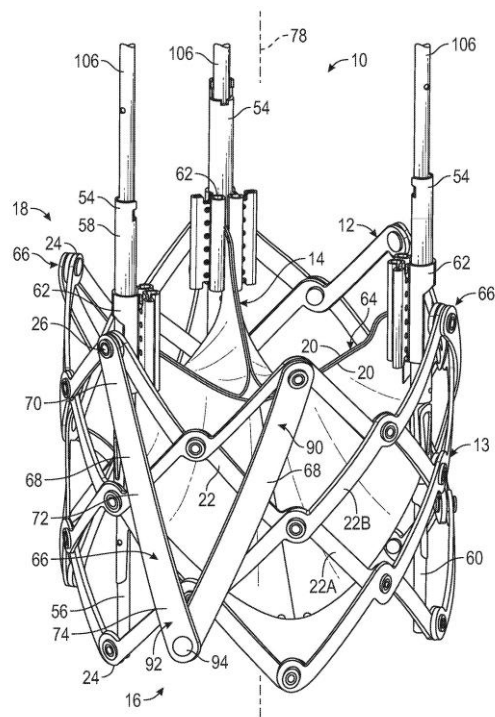
72: NEUMANN, Yair A.

33: US 31: 62/663,615 32: 2018-04-27

54: MECHANICALLY EXPANDABLE HEART VALVE WITH LEAFLET CLAMPS

00: -

A frame for a prosthetic heart valve includes a plurality of strut members arranged to form an annular main body and coupled together by a plurality of pivot joints. The main body of the frame is radially collapsible to a collapsed configuration and radially expandable to an expanded configuration, and the frame has an inflow end and an outflow end. The frame further includes a plurality of leaflet clamps disposed on the exterior of the main body of the frame and coupled to the strut members. The leaflet clamps are movable between an open position corresponding to the collapsed configuration of the frame and a closed position corresponding to the expanded configuration of the frame. Motion of the main body of the frame between the collapsed configuration and the expanded configuration causes corresponding motion of the leaflet clamps between the open position and the closed position.



21: 2020/06362. 22: 2020/10/13. 43: 2021/08/20
51: F02B: F02D: F02M

71: Fuelsave GmbH

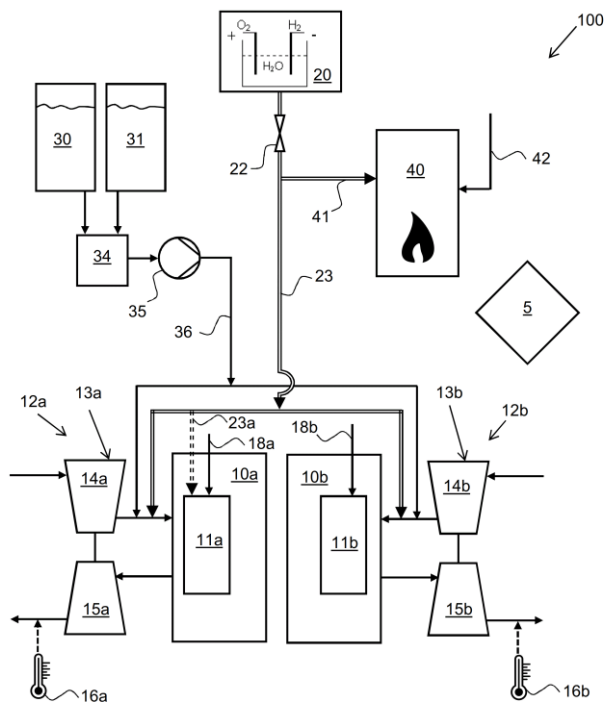
72: Dirk Hoffmann

33: EP 31: 18162732.4 32: 2018-03-20

54: SHIP DRIVE SYSTEM AND RETROFITTING METHOD FOR A SHIP DRIVE SYSTEM

00: -

The invention relates to a ship drive system comprising at least one internal combustion engine (10a, 10b) with a combustion chamber (11a, 11b) for combusting a fuel and with a turbocharger (13a, 13b) comprising a compressor (14a, 14b) in an intake tract (12a, 12b) of the internal combustion engine (10a, 10b). The ship drive system additionally comprises an electrolysis device (20) which generates hydrogen and oxygen gas that are added to the pressure side of the compressor (14a, 14b) and conducted to the internal combustion engine (10a, 10b). Additionally, a water tank (31) and an alcohol tank (30) are connected to the pressure side of the compressor (14a, 14b) in order to add water and alcohol to the charge air.



21: 2020/06375. 22: 2020/10/14. 43: 2021/09/09
51: C01B; C09C

71: SYNTOL SPOLKA AKCYJNA

72: Marcin BANACH, Jolanta PULLIT-PROCIAK

33: PL 31: P.425261 32: 2018-04-17

54: A METHOD OF CARBONIZATE PURIFICATION

00: -

A method of purification of carbonizate resulting from the thermal recycling process of rubber waste consists in that the carbonizate is mixed with sodium bicarbonate, then deionized water having increased temperature and strong mineral acid and/ or mixture of mineral acids are introduced into the obtained mixture, and next the whole is stirred at increased temperature, and filtered at decreased pressure while washing with deionized water having increased temperature, the filtrate is discarded, the solution of a strong base is introduced into the solid residue, and the whole is stirred at increased temperature, then the obtained suspension is filtered at decreased pressure, and washed with deionized water having increased temperature, and next the filtrate is discarded, and the solid residue is dried.

21: 2020/06396. 22: 2020/10/15. 43: 2021/08/20
51: A47K

71: MOELICH, Arend, Theodorus, MOELICH,

Theodorus, Arend, ROSSOUW, Hanre, Karel

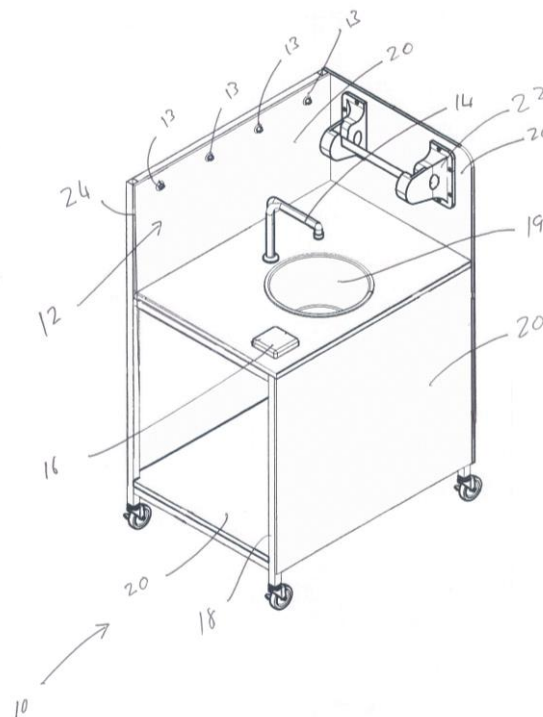
72: MOELICH, Arend, Theodorus, MOELICH,

Theodorus, Arend, ROSSOUW, Hanre, Karel

54: HAND WASH SYSTEM

00: -

A hand wash system which includes a display configured to guide a user through a hand wash technique in a step by step manner, each step of the hand wash technique being time based and wherein the display is further configured to indicate to a user when to terminate a step and to commence with the next step of the hand wash technique; a dispenser configured to dispense a hand cleaning composition and water, one in the absence of the other, at predetermined intervals; and an activator for activating the hand wash system, and, an apparatus incorporating a system of the kind.



21: 2020/06438. 22: 2020/10/16. 43: 2021/08/13
51: A61L; G07D

71: Spectra Systems Corporation

72: LAWANDY, Nabil

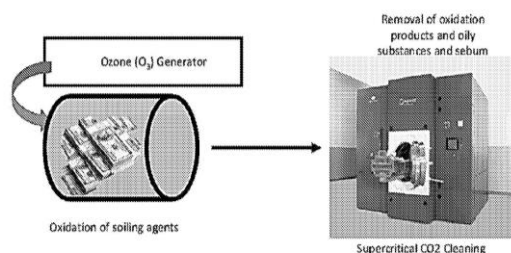
33: US 31: 62/648,143 32: 2018-03-26

54: SUPERCRITICAL FLUID CLEANING OF BANKNOTES AND SECURE DOCUMENTS UTILIZING OZONE

00: -

A method and associated apparatus for cleaning a secure instrument including a substrate, visual data and a security feature, including exposing the secure instrument to ozone sufficient to clean the substrate and not compromise the security feature and the visual data, where to clean the substrate includes to remove one or more substances from the substrate into the ozone or to chemically alter the one or more substances in or on the substrate such that exposing the secure instrument to a supercritical fluid removes the one or more substances.

Ozone-Assisted Cleaning of Banknotes and Documents



21: 2020/06834. 22: 2020/11/02. 43: 2021/08/04

51: G06F

71: DISCOVERY LIMITED

72: HENDRIE, SIMON

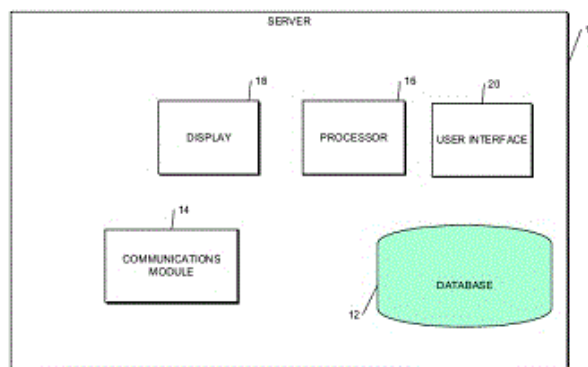
33: ZA 31: 2019/07206 32: 2019-11-01

54: A COMPUTER IMPLEMENTED SYSTEM AND METHOD OF DETECTING EXERCISE DEVICE FRAUD

00: -

A system and method for detecting step counter device fraud is provided. The method includes receiving exercise data including records of monitored exercise workouts by a user of an exercise monitoring device. The records include an identification of exercise monitoring device, a workout start time, a workout end time and an average heart rate of the user over the duration of the workout. Storing in a memory user data including one or more of the age of the user, the weight of the user and the body mass index of the user. Processing the data to analyse the workout data records for a user to determine if there are any inconsistencies between the number of workouts, the intensity of the workouts and the user's body

mass index. If there are any inconsistencies, then generating a possible fraud alert flag for an operator of the system.



21: 2020/06841. 22: 2020/11/02. 43: 2021/10/08

51: B32B

71: PFNONWOVENS, LLC, PFNONWOVENS HOLDING S.R.O.

72: PARSONS IV, John, Charles, ZAJACZKOWSKI, Peter, RAMARATNAM, Karthik, ERLANDSSON, Sven Krister Mikael, KASPARKOVA, Pavlina

33: US 31: 62/672,933 32: 2018-05-17

54: MULTILAYERED NONWOVEN FABRICS AND METHOD OF MAKING THE SAME

00: -

A nonwoven composite fabric including a first nonwoven layer composed substantially of meltblown fibers, the fibers within the first nonwoven layer having diameters that vary in accordance with a first distribution, a second nonwoven layer composed substantially of meltblown fibers, the fibers within the second nonwoven layer having diameters that vary in accordance with a second distribution, and a third nonwoven layer composed substantially of meltblown fibers, the third nonwoven layer disposed between the first and second nonwoven layers, the fibers within the third nonwoven layer having diameters that vary in accordance with a third distribution that is greater than the first and second distributions.

21: 2020/06853. 22: 2020/11/03. 43: 2021/08/16

51: A61M

71: L'Air Liquide Société Anonyme pour l'Etude et l'Exploitation des Procédés Georges Claude

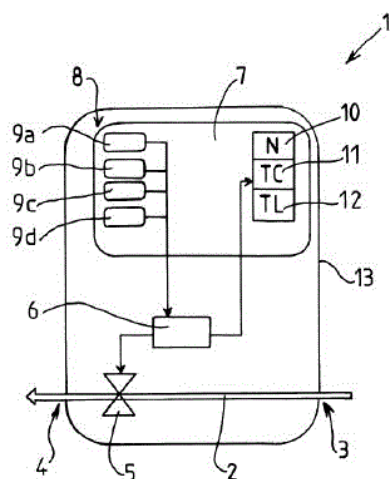
72: BLANDIN, Yann, THEVENET, Louise, AMORY, Marie

33: FR 31: 1912769 32: 2019-11-15

54: DEVICE FOR SUPPLYING THERAPEUTIC GAS, PARTICULARLY NO OR N₂O, TO A PATIENT

00: -

The invention relates to a device (1) for supplying therapeutic gas, notably NO/N₂ or O₂/N₂O mixtures, comprising an internal passage (2) with valve means (5) for conveying and controlling the flow of therapeutic gas in the internal passage (2), control means (6) controlling the valve means (5), a graphic display (7) for displaying choices (9a-9d) that can be selected by a user, and selection means (8), such as touch-sensitive keys displayed on the graphic display (7) for making a selection from among the selectable choices (9a-9d) displayed on the graphic display (7). The control means (6) are configured to count a total number (N) of patients treated by administration of the therapeutic gas from the selection, by a user, via the selection means (8), of a first given choice (9a) corresponding to the start of a treatment by administering the therapeutic gas to a patient concerned.



21: 2020/06874. 22: 2020/11/04. 43: 2021/08/04
51: A61B; G06F

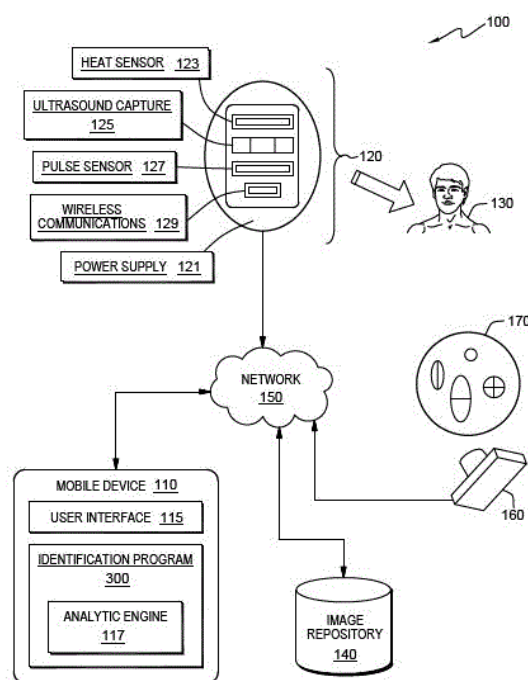
71: International Business Machines Corporation
72: MAPIYE, Darlington Shingirirai, MASHIYANE, James, DLAMINI, Gciniwe, MAKORO, Dineo, MULLER, Stephinie, MOKOATLE, Mpho
33: US 31: 16/674,522 32: 2019-11-05

54: NON-INVASIVE DETECTION OF INGESTED MEDICATIONS

00: -

A method for non-invasive detection of ingested medication which provide for one or more

processors to receive images of medications designated for a user prior to ingestion of the medications by the user. The one or more processors capture an ultrasound image during ingestion by the user by an ultrasound device removably adhered to a throat area of the user. The one or more processors determine whether contents of the ingestion by the user includes one or more of the medications designated for the user, and responsive to determining the contents of the ingestion by the user includes one or more of the medications designated for the user, the one or more processors generate a confirmation that includes identification of the detected medications ingested by the user.



21: 2020/06880. 22: 2020/11/04. 43: 2021/08/04
51: A61K; C12N

71: Caribou Biosciences, Inc.

72: CAMERON, Peter Sean, GRADIA, Scott David, KLOMPE, Sanne Eveline, STERNBERG, Samuel Henry, THOMPSON, Matthew Scott

33: US 31: 62/684,735 32: 2018-06-13

54: ENGINEERED CASCADE COMPONENTS AND CASCADE COMPLEXES

00: -

The present disclosure provides engineered Class 1 Type I CRISPR-Cas (Cascade) systems that comprise multi-protein effector complexes,

nucleoprotein complexes comprising Type I CRISPR-Cas subunit proteins and nucleic acid guides, polynucleotides encoding Type I CRISPR-Cas subunit proteins, and guide polynucleotides. Also, disclosed are methods for making and using the engineered Class 1 Type I CRISPR-Cas systems of the present invention.

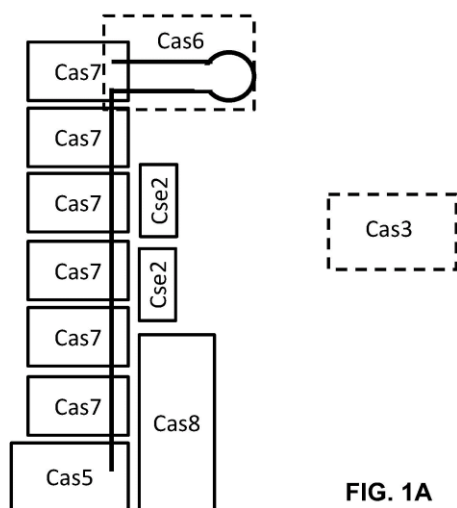


FIG. 1A

21: 2020/06901. 22: 2020/11/05. 43: 2021/08/04
51: H01B
71: TAYLOR, Wayne, George, PRETORIUS, David, Johannes, VERMEULEN, Petrus, Johannes
72: TAYLOR, Wayne, George, PRETORIUS, David, Johannes, VERMEULEN, Petrus, Johannes
33: ZA 31: 2018/02244 32: 2018-04-06
54: INSULATOR AND BUSHING
00: -

The invention provides an insulator, made of a composite material. The composite material includes including a derivative or a combination of minerals and a polymeric material.

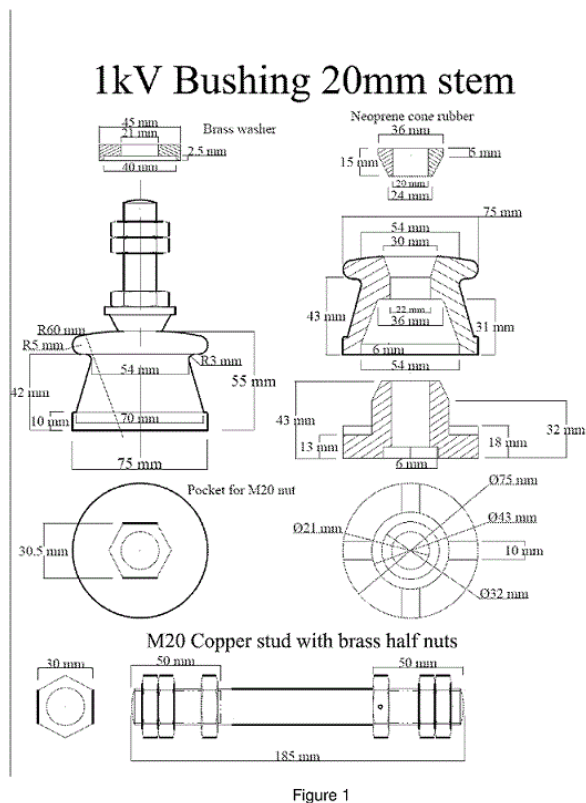
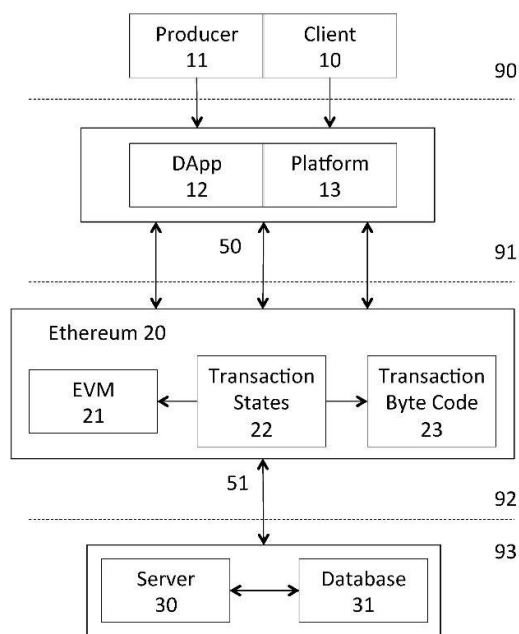


Figure 1

21: 2020/06918. 22: 2020/09/17. 43: 2021/08/04
51: H04L; G06Q
71: LAND LAYBY TECHNOLOGIES LIMITED
72: PETER TOLE
33: KE 31: KE/P/2018/002792 32: 2018-02-23
54: ASSET TRANSACTION SYSTEM AND METHOD
00: -

The disclosure provides systems and methods for securing data pertaining to an asset, such as a land asset or another asset. The system involves a distributed ledger that securely and transparently allows for asset-related transactions and recording of data by authorized users, and further includes a reward and penalty system to encourage accuracy from users.



21: 2020/06925. 22: 2020/11/06. 43: 2021/08/06
51: B61G

71: P THORBURN CONSULTING ENGINEERS
(PROPRIETARY) LIMITED

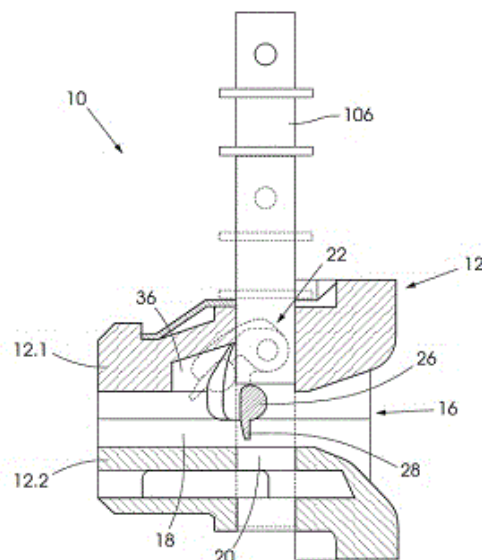
72: WILSON, GARY GRAHAM

33: ZA 31: 2019/07384 32: 2019-11-07

54: HOPPER COUPLER

00: -

In accordance with the invention there is provided a hopper coupler. The coupler includes a coupler head defining an entrance to a first passage to receive an end of a coupling link and defining a second passage for receiving a coupling pin. The coupler includes a detent which is movable between a first, inoperative position wherein the detent obstructs movement of the coupling pin along the second passage so as to allow movement of the coupling link along the first passage and a second, operative position wherein the detent is displaced to allow movement of the coupling pin along the second passage so as to secure the coupling link in the first passage when located therein. The detent is suspended from a pivot about which it pivots when moving between its operative and inoperative positions.



21: 2020/06927. 22: 2020/11/06. 43: 2021/08/06
51: G06F

71: Fusion Holdings Ltd

72: PILLAY, Rodney, JUNGBAHADUR, Sidesh

33: GB 31: 1916286.6 32: 2019-11-08

54: SYSTEMS AND METHODS FOR PREDICTING ASPECTS OF AN UNKNOWN EVENT

00: -

Example embodiments relate to predicting aspects of an unknown event. A system may involve an electronic device communicatively coupled to a server. The server may provide a set of possible parameters relating to an unknown event to the electronic device. The electronic device may enable a user to select predicted parameters via a user interface and may further transmit the predicted parameters to the server. The server may generate a combination from the set of possible parameters to use to retrieve a pre-recorded event and transmit the event to the electronic device for display to the user. The server may also compare the predicted parameters to the generated parameters to determine a result and provide the result to the electronic device for display to the user.

21: 2020/06966. 22: 2020/11/09. 43: 2021/08/05
51: A47C; B68G

71: L&P Property Management Company

72: EIGENMANN, Guido, RICHMOND, Darrell A.,

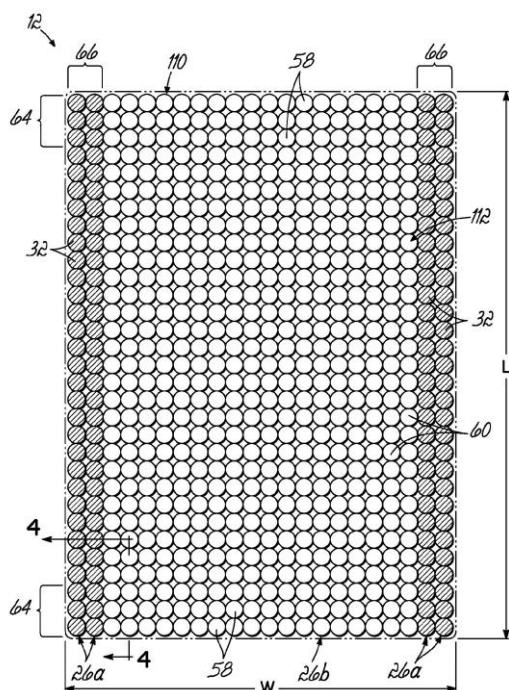
BAUER, Bernhard, LIECHTI, Urs, MEIER, Andreas

33: US 31: 62/684,334 32: 2018-06-13

54: SECTIONED POCKETED SPRING ASSEMBLY AND METHOD OF MAKING SAME

00: -

A pocketed spring assembly (12, 13, 12c) comprises parallel strings (26, 27, 26a, 26b, 26c, 26cc), each string joined to at least one adjacent string. At least some of the strings (26b) have springs of different gauge wire and some of the pockets (58, 60) of the strings (26b) having springs of different gauge wire are spliced together. At least some of the strings (26b) have springs of different geometries and some of the pockets (58, 60) of the strings (26b) having springs of different geometries are spliced together. At least some strings (26b) may have end sections (64, 64c) with springs different than a middle section therebetween, the springs of the end sections (64, 64c) being firmer than the springs of the middle section.



21: 2020/06996. 22: 2020/11/10. 43: 2021/08/12

51: C21D; C22C

71: voestalpine Rail Technology GmbH

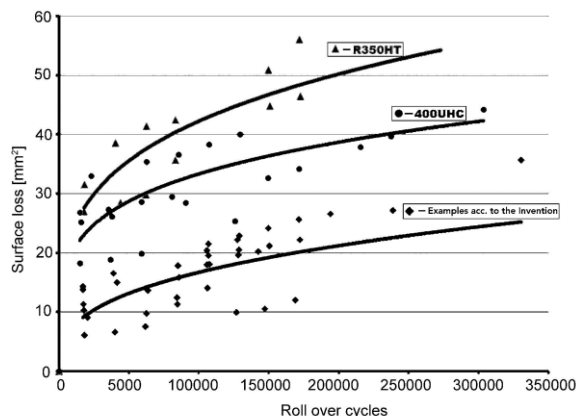
72: GORIUPP, Jürgen, KUSS, Mario

33: AT 31: A 201/2018 32: 2018-07-10

54: TRACK PART MADE OF A HYPEREUTECTOID STEEL

00: -

In a track part, in particular rail for railway vehicles, made of a hypereutectoid steel, comprising a rail foot, a rail web and a rail head portion, a hypereutectoid steel with the following directional analysis is used: 0.98 - 1.17 wt.-% of C 0.90 - 1.35% wt.-% of Mn 0.70 - 1.10% wt.-% of Si 0.15 - 0.70 wt.-% of Cr and wherein the steel, at least in the head portion of the rail, has a pearlitic structure that is substantially free of secondary cementite networks.



21: 2020/07004. 22: 2020/11/11. 43: 2021/07/29

51: E05B; E05G; H04L

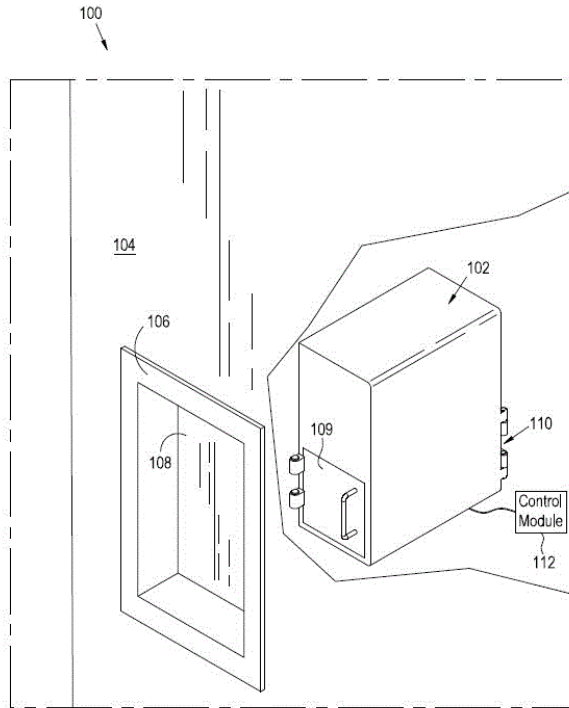
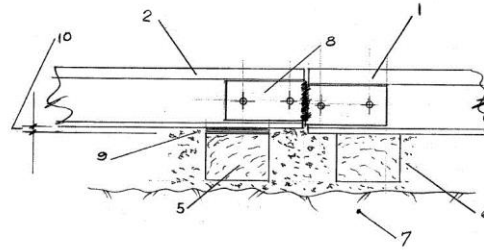
71: FIRSTRAND BANK LIMITED

72: BRITZ, Eugene, VAN WYK, Louw

54: A SAFE ASSEMBLY FOR TRANSFERRING VALUABLES FROM ONE PARTY TO ANOTHER

00: -

A safe assembly for transferring valuables includes a safe or vault provided with at least two doors, namely a front door at a front of the safe and rear door at a rear of the safe, wherein the front door is an inner front door and further an outer front door external to the safe. The safe assembly includes a control module configured to unlock the outer front door and/or the inner front door in response to one or more authorised unlock commands from a first party and to unlock the rear door in response to an authorised unlock command from a second party. The control module is configured to prevent simultaneous unlocking of the inner front and rear doors of the safe, that is, the rear door can be unlocked only if the inner front door is locked and the inner front door can be unlocked only if the rear door is locked.



21: 2020/07006. 22: 2020/11/11. 43: 2021/07/29
51: E01B; E01D

71: TITAN MINING (PTY) LTD

72: LAWRENCE, Allen Preston

33: ZA 31: 2019/07537 32: 2019-11-14

54: METHOD OF CORRECTING STEP JOINTS IN RAILS

00: -

This invention discloses a method of correcting step joints arising from uneven rail heights at a joint defined between two adjacent rail sections that are or to be joined end to end, to bring the adjacent rail crowns of the adjacent rail sections into alignment. The method comprises securing inner and outer fish plates to the ends of the rail sections so as to extend across the step joint on both the inner and outer sides of the adjacent rail sections; splitting the inner and outer fish plates vertically at the centre of the step joint to define two fish plate portions; arranging the ends of the rail sections so as to align the adjacent rail crowns of the adjacent rail sections; and welding the opposing ends of the adjacent fish plate portions to define aligned adjacent rail crowns of the adjacent rail sections.

21: 2020/07011. 22: 2020/11/11. 43: 2021/08/12

51: F41G G01C

71: SHELTERED WINGS, INC. D/B/A VORTEX OPTICS

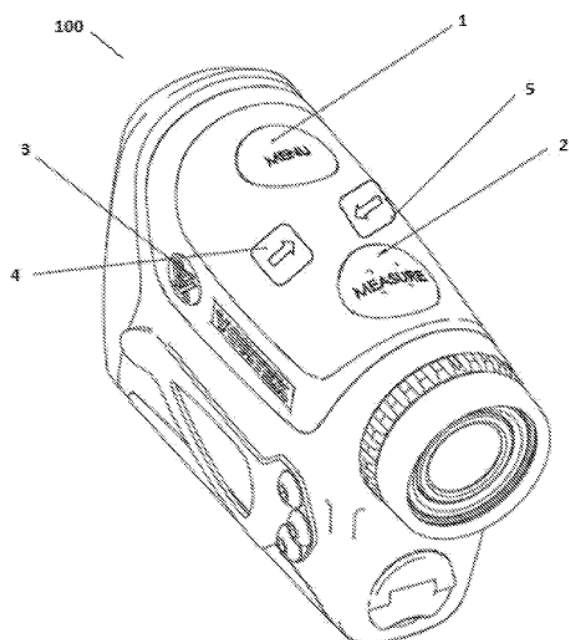
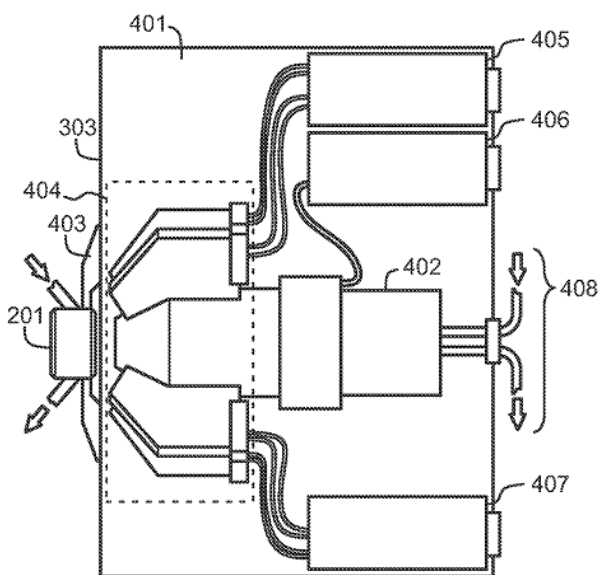
72: CAMPBELL, Richard, HAMILTON, David, M., PARKS, Scott, NEESS, Paul

33: US 31: 62/657,450 32: 2018-04-13

54: VIEWING OPTIC WITH WIND DIRECTION CAPTURE AND METHOD OF USING THE SAME

00: -

The disclosure relates to a viewing optic. In one embodiment, the viewing optic has a direction sensor to capture the direction of wind. In one embodiment, the viewing optic has a ranging system to determine the distance to a target. In one embodiment, the viewing optic has a processor with a ballistics program that can use the distance and the wind direction to determine a ballistics trajectory. Further, the disclosure relates to methods for capturing wind direction.



21: 2020/07012. 22: 2020/11/11. 43: 2021/08/12
 51: G01N G21K G01T C22B
 71: OUTOTEC (FINLAND) OY
 72: SIPILÄ, Heikki, PELLİ, Antti, KOSKINEN, Tommi
 33: FI 31: PCT/FI2018/050281 32: 2018-04-20
 33: FI 31: PCT/FI2018/050283 32: 2018-04-20
 33: FI 31: PCT/FI2018/050282 32: 2018-04-20

54: X-RAY FLUORESCENCE ANALYZER SYSTEM AND A METHOD FOR PERFORMING X-RAY FLUORESCENCE ANALYSIS OF AN ELEMENT OF INTEREST IN SLURRY

00: -

X-ray fluorescence analyzer system comprises an X-ray tube (402), a slurry handling unit (201), and a crystal diffractor (601) located in a first direction from said slurry handling unit (201). The crystal diffractor (601) separates a predefined wavelength range from fluorescent X-rays (207) that propagate into said first direction, and directs the fluorescent X-rays in the separated predefined wavelength range to a radiation detector (602, 1605). The crystal diffractor (601) comprises a pyrolytic graphite crystal (603). Said predefined wavelength range comprises characteristic fluorescent radiation of a predefined element of interest with its atomic number Z between 41 and 60 the ends included. An energy resolution of said radiation detector (602, 1605) is better than 600 eV at the energy of said characteristic fluorescent radiation.

21: 2020/07013. 22: 2020/11/11. 43: 2021/08/12
 51: G01N B03B G21K C22B G01T

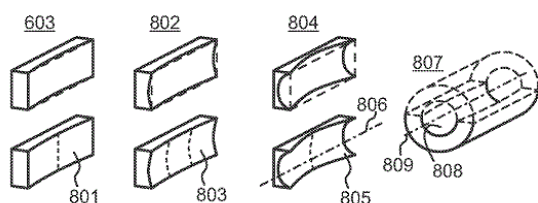
71: OUTOTEC (FINLAND) OY

72: KOSKINEN, Tommi, PELLİ, Antti, SIPILÄ, Heikki

54: X-RAY FLUORESCENCE ANALYZER, AND A METHOD FOR PERFORMING X-RAY FLUORESCENCE ANALYSIS

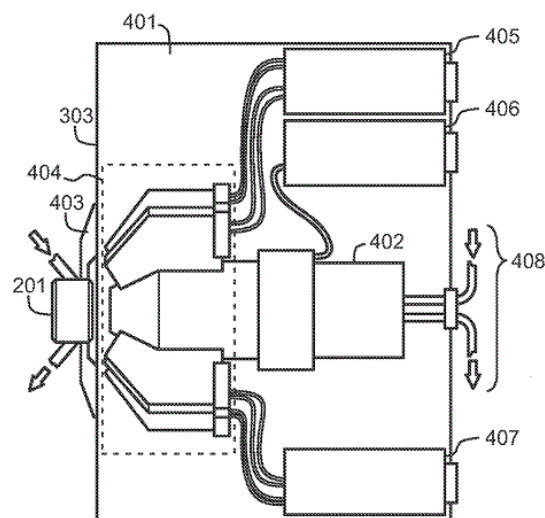
00: -

An X-ray fluorescence analyzer comprises an X-ray tube (402) for emitting incident X-rays (206) in the direction of a first optical axis (204). A slurry handling unit (201) is configured to maintain a constant distance between a sample (202) of slurry and said X-ray tube. A first crystal diffractor (601) is located in a first direction from said slurry handling unit (201), and configured to separate a predefined first wavelength range from fluorescent X-rays (207) that propagate into said first direction. The first crystal diffractor is configured to direct the fluorescent X-rays in the separated predefined first wavelength range to a first radiation detector (602, 1505). The first crystal diffractor (601) comprises a pyrolytic graphite crystal (603, 802, 804) that has a diffractive surface (801, 803, 805), which is a simply connected surface. Said first radiation detector (602) is a solid-state semiconductor detector.



21: 2020/07018. 22: 2020/11/11. 43: 2021/08/06
 51: C22B G01T B03B G21K G01N
 71: OUTOTEC (FINLAND) OY
 72: KOSKINEN, Tommi, PELLI, Antti, SIPILÄ, Heikki
54: X-RAY FLUORESCENCE ANALYSER, AND A METHOD FOR PERFORMING X-RAY FLUORESCENCE ANALYSIS

00: -
 An X-ray fluorescence analyser comprises an X-ray tube (402) for emitting incident X-rays (206) in the direction of a first optical axis (204). A slurry handling unit (201) is configured to maintain a constant distance between a sample (202) of slurry and said X-ray tube. A first crystal diffractor (601) is located in a first direction from said slurry handling unit (201), and configured to separate a predefined first wavelength range from fluorescent X-rays (207) that propagate into said first direction. It is configured to direct the fluorescent X-rays in the separated predefined first wavelength range to a first radiation detector (602, 505). The input power rating of said X-ray tube (402) is at least 400 watts. The first crystal diffractor (601) comprises a pyrolytic graphite crystal (603). The optical path between said X-ray tube (402) and said slurry handling unit (201) is direct with no diffractor therebetween.



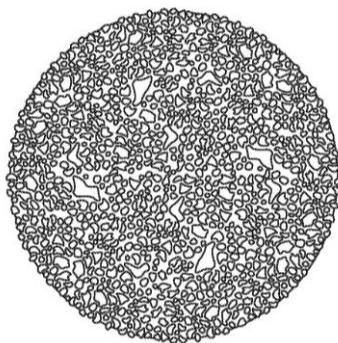
21: 2020/07019. 22: 2020/11/11. 43: 2021/08/06
 51: A01N C08G A23K A61K
 71: EVONIK OPERATIONS GMBH
 72: HÄNSEL, René, SKRABANIA, Katja, KLEINEN, Jochen, FERENZ, Michael
 33: EP 31: 18168183.4 32: 2018-04-19
54: BIOCOMPATIBLE SILOXANES FOR FORMULATION OF MICROORGANISMS

00: -
 The invention relates to compositions containing at least one siloxane and at least one microbiological active substance, to methods of producing same, the use thereof in the treatment of plants, seeds or soils, the use thereof as a biostimulant or the use thereof as a probiotic nutritional supplement or animal feed additive, and compositions for use as probiotic drugs, and to the use of the siloxane to improve the storage stability of a microbiological active substance.

21: 2020/07035. 22: 2020/11/11. 43: 2021/08/12
 51: A01N
 71: Syngenta Crop Protection AG
 72: FOWLER, Jeffery David, KIM, Sejong, LEBEDEVA, Natalia, NARSALE, Jelena
 33: US 31: 62/670,271 32: 2018-05-11
54: STABILIZED CHEMICAL COMPOSITION

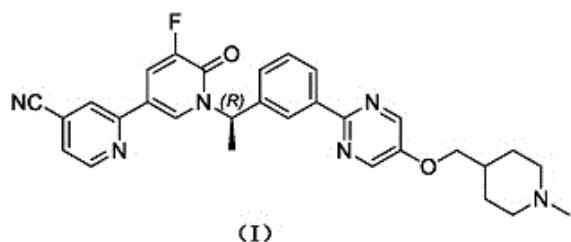
00: -
 Stabilized liquid agrochemical compositions are provided that comprise flowable, liquid dispersion concentrates comprising a) a continuous liquid phase; and b) a dispersed phase comprising a dispersion of gel-like polymer matrix particles having

a hardness greater than 0.01 MPa and less than 6 MPa, and where the outside surfaces of the particles comprise a colloidal solid material and the particles have a agrochemically active ingredient distributed therein. The agrochemically active ingredient may be solid or liquid and is distributed within the polymer matrix particle. The compositions of the invention can be used directly or with dilution to combat pests or as plant growth regulators.



21: 2020/07037. 22: 2020/11/11. 43: 2021/08/12
51: C07D; A61K; A61P
71: FUJIAN COSUNTER PHARMACEUTICAL CO., LTD.
72: XU, XIONGBIN, LI, GANG, YAO, TING, WANG, KUN, HU, LIHONG, DING, CHARLES Z
33: CN 31: 201810387693.2 32: 2018-04-26
54: CRYSTAL FORM OF C-MET INHIBITOR AND SALT FORM THEREOF AND PREPARATION METHOD THEREFOR

00: -
Disclosed are a crystal form of a c-MET inhibitor and a salt form thereof and a preparation method therefor. Specifically involved are the compound as shown in formula (I), and a salt form and a crystal form thereof, and also included is the use of the crystal form and the salt form in the preparation of medicines for treating cancers.



21: 2020/07056. 22: 2020/11/12. 43: 2021/10/08
51: C07K

71: MACROGENICS, INC., DUKE UNIVERSITY
72: Chia-Ying, Kao LAM, Gundo DIEDRICH, Jeffrey, Lee NORDSTROM, Liqin LIU, Leslie S. JOHNSON, Scott KOENIG, Barton F. HAYNES, Guido FERRARI
33: US 31: 62/673,462 32: 2018-05-18

54: OPTIMIZED GP41-BINDING MOLECULES AND USES THEREOF

00: -

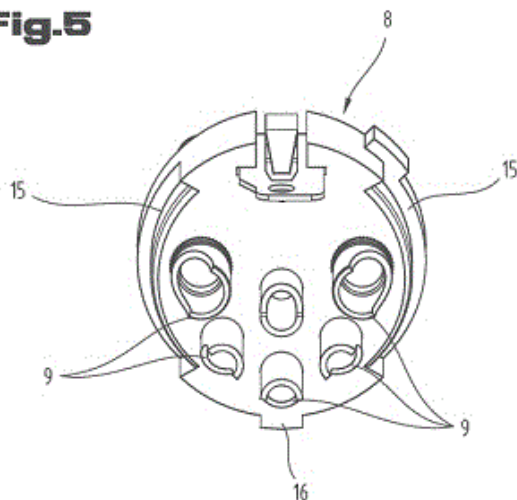
The present invention is directed to optimized HIV-1 gp41-Binding Molecules having reduced immunogenicity. More specifically, the invention relates to optimized gp41-Binding Molecules that comprise a gp41-binding Variable Light Chain (VL) Domain and/or a gp41-binding Variable Heavy Chain (VH) Domain that has/have been optimized to reduce the immunogenicity of such Domain(s) upon administration to a recipient subject. The invention particularly pertains to gp41-Binding Molecules that are multispecific gp41-Binding Molecules (including bispecific diabodies (including DART® diabodies), BiTE®s, bispecific antibodies, trivalent binding molecules (including TRIDENT™ molecules), etc.) that comprise: (i) such optimized gp41-binding Variable Domain(s) and (ii) a domain capable of binding to an epitope of a molecule present on the surface of an effector cell. The invention is also directed to pharmaceutical compositions that comprise any of such gp41-Binding Molecules, and to methods involving the use of any of such gp41-Binding Molecules in the treatment of HIV-1 infection.

21: 2020/07082. 22: 2020/11/13. 43: 2021/08/12
51: H01R
71: NEUTRIK AG
72: DOBLER, OLIVER
33: AT 31: A50987/2019 32: 2019-11-14
54: CONTACT CARRIER FOR ELECTRICAL PLUG CONNECTORS AND PLUG CONNECTORS THEREFOR

00: -

An electrical plug connector having a housing (1, 19, 36, 43) and a contact carrier held inside the housing. It comprises, in any case, an electrically insulating base part (8, 18) and at least one pair of first electrical contacts (4, 31) for transmitting energy and multiple pairs of second electrical contacts (2, 30) for transmitting data. The contacts (2, 4, 30, 31) are held in the base part (8, 18) and arranged so as to be distributed in a plane extending essentially

perpendicular relative to the longitudinal axis of the contact elements and the contact carrier. First distance lines (50) between the contacts (91, 92) of the pairs of first contacts are free of overlaps with second distance lines (51, 52) between the contacts of the pairs (93, 94 and/or 95, 96) of second contacts.

Fig.5

21: 2020/07117. 22: 2020/11/16. 43: 2021/07/30
51: H05B

71: STEYN, Tracey, SMITH, Reginald, Gerald,
SMIT, Marthinus, Christoffel

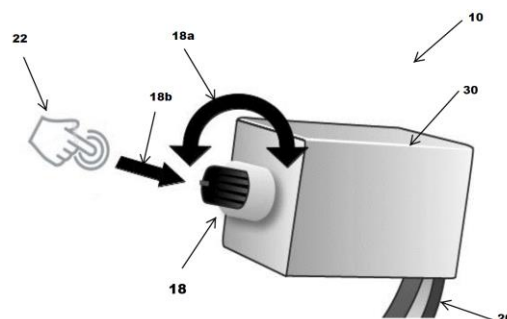
72: STEYN, Tracey, SMITH, Reginald, Gerald,
SMIT, Marthinus, Christoffel

33: ZA 31: 2019/07696 32: 2019-11-21

54: A CONTROLLER

00: -

A controller which includes a connector 12 for interconnecting an electrical energising means 14 and an article 16 to be energised, a resistor 18 arranged in electrical communication with the connector 12, the resistor 18 being configured to variably control a resistance between the electrical energising means 14 and the article 16 to be energised upon rotatable 18a or axial 18b displacement thereof.



21: 2020/07129. 22: 2020/11/16. 43: 2021/07/29
51: A01N; F25D

71: Indian Institute of Science

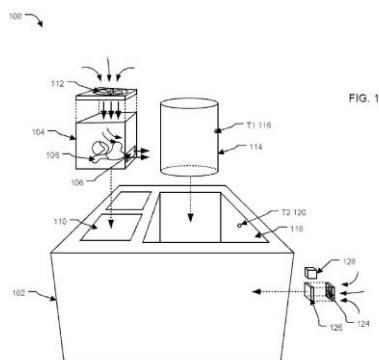
72: GURUMOORTHY, Balan, GHOSAL, Ashitava,
NAMBIAR, Rohit S, KARIA, Deval

33: IN 31: 201841006081 32: 2018-04-17

54: AN APPARATUS TO MAINTAIN TEMPERATURE OF AN OBJECT

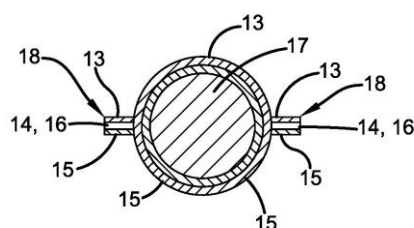
00: -

The present disclosure provides a portable apparatus to maintain temperature of an object comprising a first chamber containing a quantity of a thermal material. The first chamber is thermally coupled to a container holding the object of interest. Ambient air is driven over the thermal material and then towards the container to change the temperature of the container. A valve is provided near the container which can be opened to allow entry of ambient air towards the container. Either of the heated or cooled air flow and the operation of the valve is regulated to maintain the temperature of the container to within a predetermined temperature range. The container is configured to be sealed to isolate the object from the ambient and allows for a means to preserve object quality. A housing of the apparatus is provided with a provision to protect the first container from mechanical shocks.



21: 2020/07131. 22: 2020/11/16. 43: 2021/07/29
 51: H01B; H02G
 71: WESCO Equity Corporation
 72: ALLEN, Jerry L.
 33: US 31: 62/681,744 32: 2018-06-07
54: CABLE WITH A FABRIC SLEEVE AND ITS METHOD OF MANUFACTURE
 00: -

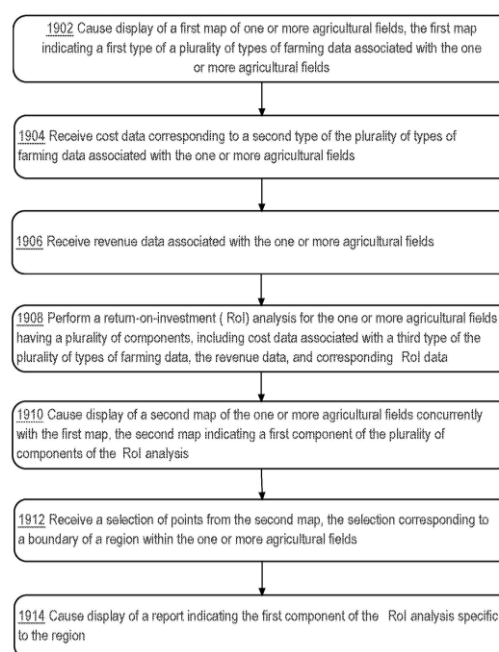
A fabric wrapped cable is formed by positioning adhesive on opposed layers of fabric. A cable is positioned between those layers and the layers are attached by attaching the adhesive of one layer to the adhesive of the other layer. In forming the wrapped cable in such a manner, the cable is provided with at least one wing.



21: 2020/07133. 22: 2020/11/16. 43: 2021/07/30
 51: G06Q
 71: The Climate Corporation
 72: BONES, Tavis, STUBER, Jakob, PLATTNER, Kyle, MERRYMAN, Joshua, LISKER, Oriana, SAUDER, Doug, BARRON, Christopher H.
 33: US 31: 15/976,574 32: 2018-05-10
54: ANALYSIS AND PRESENTATION OF AGRICULTURAL DATA
 00: -

A computer-implemented method is disclosed. The method comprises causing display of a first map of one or more agricultural fields, the first map indicating a first type of farming data; receiving cost data corresponding to a second type of farming data; receiving revenue data; performing an RoI analysis

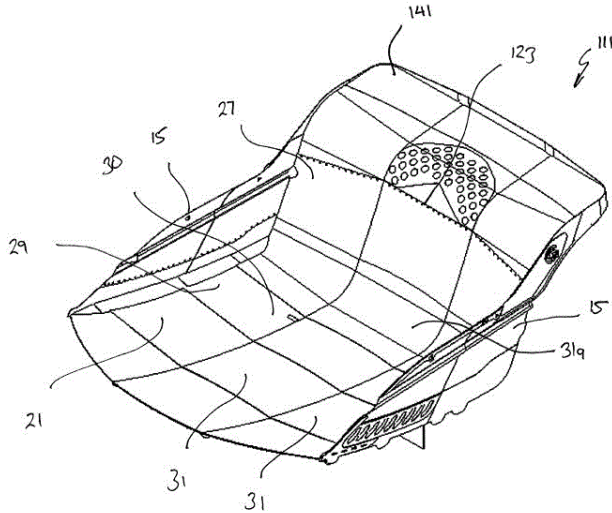
for the one or more agricultural fields having a plurality of components, including cost data associated with a third type of farming data, the revenue data, and corresponding RoI data; causing display of a second map of the one or more agricultural fields concurrently with the first map, the second map indicating a first component of the RoI analysis; receiving a selection of points from the second map, the selection corresponding to a boundary of a region within the one or more agricultural fields; causing display of a report indicating the first component of the RoI analysis specific to the region.



21: 2020/07155. 22: 2020/11/17. 43: 2021/07/30
 51: B60P
 71: G&G MINING FABRICATION PTY LTD
 72: DE JAGER, John, CESPEDDES, Alex, CORNFOOT, Ian
 33: AU 31: 2018901308 32: 2018-04-19
54: BODY FOR A TRUCK AND A TRUCK
 00: -

The present invention is in the form of a body (111) adapted to be fitted to a truck having at least two axles. The body is capable of tipping once fitted to the truck. The body comprises two side surfaces (13) interconnected by a longitudinal surface (21) to keep the side surfaces in spaced apart relation. The longitudinal surface and the side surface define a

cavity (30) for receiving a payload. The longitudinal surface is configured such that the payload is self-centering as the body is loaded, such that in operation the distribution of load on each of the at least two axles remain substantially the same between a first payload having a first volume and a second payload having a second volume, neither payload resulting in the gross vehicle weight limit being exceeded.



21: 2020/07261. 22: 2020/11/20. 43: 2021/08/05
51: G06F; E21F

71: CHINA UNIVERSITY OF MINING AND TECHNOLOGY

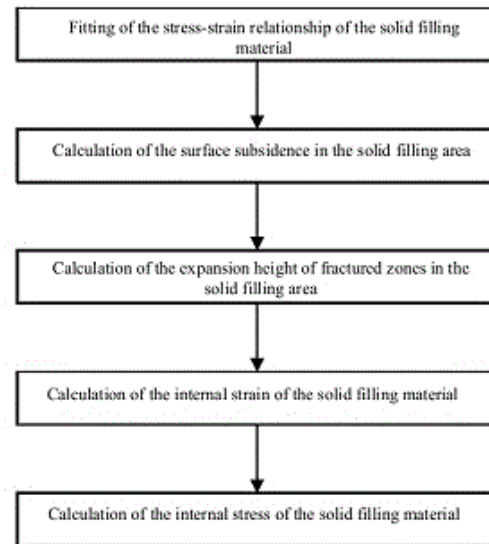
72: ZHOU, NAN, YAN, HAO, ZHANG, JIXIONG, A.J.S., (SAM) SPEARING, LI, BAIYI, WU, ZHONGYA

33: CN 31: 201811034412.1 32: 2018-09-06

54: METHOD FOR DETERMINING INTERNAL STRESS OF SOLID-CUT-AND-FILL MATERIAL
00: -

A method for determining the internal stress of a solid-cut-and-fill material, characterized by comprising the following steps: step 1), acquiring solid-cut-and-fill material stress data, and fitting a stress-strain relationship of the solid-cut-and-fill material; step 2), on the basis of the equivalent mining height theory and the probability integral method, calculating a surface subsidence amount of a solid-cut-and-fill region; step 3), calculating, in cases of solid-cut-and-fill coal mining, an expansion height of a fissure zone in the region; step 4), in combination with steps 2) and 3), calculating the internal strain of the solid-cut-and-fill material at a position distanced from the rear of a stope by L; and

step 5), calculating an internal stress of the solid-cut-and-fill material at the position distanced L from the rear of a working face. Said method is a method for calculating a stress of a cut-and-fill body in solid-cut-and-fill coal mining. The method is simple and practical, is usable for calculating surrounding rock stress distribution in solid-cut-and-fill mining, provides guidance for designs of cut-and-fill mining and supporting, enriches the mine pressure theoretical system in cut-and-fill mining, and is of great importance.



21: 2020/07305. 22: 2020/11/24. 43: 2021/08/06
51: C21D H05B

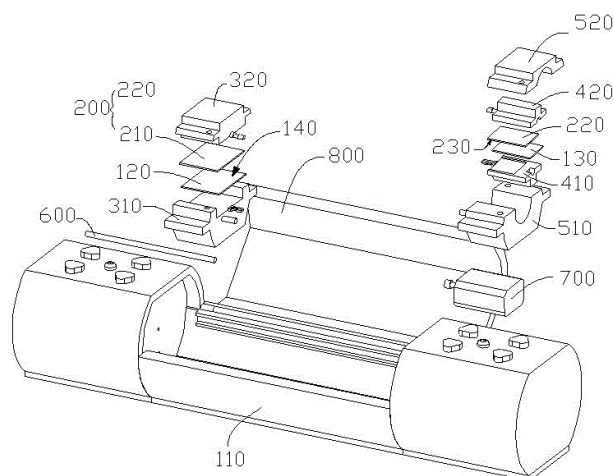
71: QINGDAO UNIVERSITY OF TECHNOLOGY
72: ZHANG, Shuling, CUI, Ning, WU, Qianqian, GAO, Xuenan

33: CN 31: 201910345564.1 32: 2019-04-26

54: CLAMPING MECHANISM AND ANNEALING DEVICE
00: -

Disclosed are a clamping mechanism (01) and a related annealing device, relating to the field of clamping apparatuses. The clamping mechanism (01) comprises a base (100) and two clamping members (200), wherein the base (100) is provided with first clamping faces (140); each of the clamping members (200) is provided with a second clamping face (230); the two clamping members (200) are both connected to the base (100); and a clamping space configured to clamp a metal wire is formed between each second clamping face (230) and each

of the first clamping faces (140). When the clamping mechanism is used, the metal wire is firmly and reliably clamped, and the metal wire is not easily bent by the clamping mechanism; therefore, a test result is more accurate. The annealing device comprises the clamping mechanism and has all the advantages of the clamping mechanism.



21: 2020/07339. 22: 2020/11/25. 43: 2021/08/06

51: B60J; B66F

71: MANITOU ITALIA S.R.L.

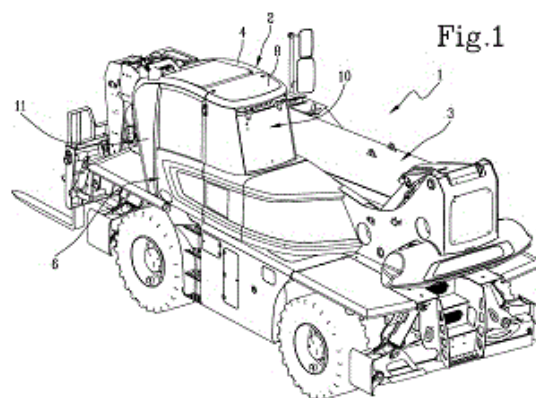
72: IOTTI, MARCO

33: IT 31: 102019000023532 32: 2019-12-10

54: SELF-PROPELLED OPERATING MACHINE EQUIPPED WITH AN IMPROVED CABIN

00: -

A self-propelled operating machine (1) comprising a control cabin (2) for housing an operator and a unit (3) for moving a load. The control cabin (2) comprises a supporting frame (4) and a transparent wall (7) applied to the supporting frame (4) and partly delimiting the cabin (2). The transparent wall (7) can be made opaque in a controlled manner.



21: 2020/07340. 22: 2020/11/25. 43: 2021/08/06

51: B66F; B66C; E02F

71: MANITOU ITALIA S.R.L.

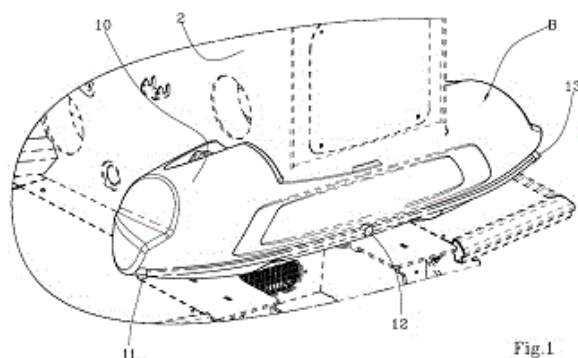
72: IOTTI, MARCO

33: IT 31: 102019000023631 32: 2019-12-11

54: ROTARY TOWER WITH BALLAST

00: -

A ballast for a rotary tower, comprising: a main body (10), equipped with coupling means designed to allow a connection to the rotary tower; a detecting device (11, 12, 13), associated with the main body (10), designed for detecting the presence of an obstacle positioned at a distance less than a predetermined safety distance from the main body (10), and for emitting a proximity signal, signifying the presence of an obstacle at a distance less than the safety distance from the main body (10).



21: 2020/07347. 22: 2020/11/25. 43: 2021/08/13

51: C07D A61P A61K

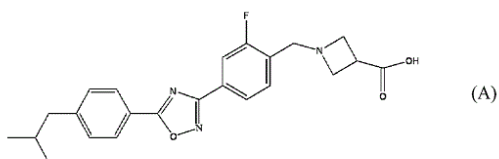
71: SUZHOU CONNECT BIOPHARMACEUTICALS, LTD

72: ZHENG, Wei, PAN, Wubin, GUO, Jiawang

54: ADDITION SALT OF S1P1 RECEPTOR AGONIST AND CRYSTAL FORM THEREOF, AND PHARMACEUTICAL COMPOSITION

00: -

Disclosed in the present invention are a salt form and a crystal form of an S1P1 receptor mediated disease or symptom drug 1-{2-fluoro-4-[5-(4-isobutylphenyl)-1,2,4-oxadiazole-3-yl]benzyl}-3-azetidinecarboxylic acid (formula A). Also disclosed in the present invention are a preparation method for the salt form or the crystal form, a pharmaceutical composition of the salt form or the crystal form, and use of the salt form or the crystal form in the preparation of a drug for treating and/or preventing an S1P1 receptor mediated disease or symptom.



21: 2020/07436. 22: 2020/11/30. 43: 2021/08/04

51: A61F

71: Walter Sisulu University

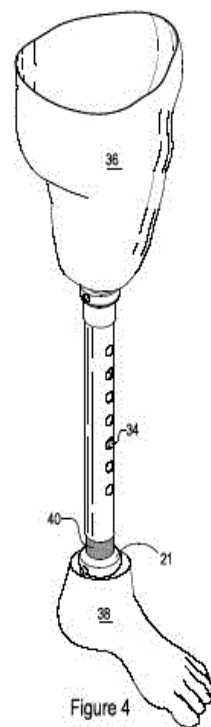
72: MGWILI, Siphosethu

33: ZA 31: 2019/07903 32: 2019-11-28

54: PYLON

00: -

The invention relates to a pylon for a prosthesis. The pylon comprises an elongate outer tube having an end for releasably attaching to one of a prosthetic calf/socket and foot; an elongate inner tube having an end which is arranged to be releasably fitted to the other of the prosthetic calf/socket and foot, the inner tube being slidably received in telescoping relationship within the outer tube; and adjustment arrangement for allowing incremental adjustment of the length of the pylon. The invention also relates to a prosthetic assembly.



21: 2020/07461. 22: 2020/11/30. 43: 2021/08/05

51: G10H; H04M

71: Smule, Inc.

72: STEINWEDEL, David, SLOBODIEN, Andrea, SMITH, Jeffrey, COOK, Perry R.

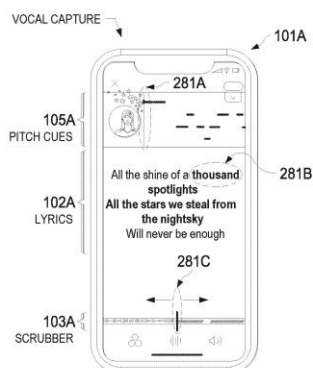
33: US 31: 62/674,460 32: 2018-05-21

54: NON-LINEAR MEDIA SEGMENT CAPTURE AND EDIT PLATFORM

00: -

User interface techniques provide user vocalists with mechanisms for forward and backward traversal of audiovisual content, including pitch cues, waveform- or envelope-type performance timelines, lyrics and/or other temporally-synchronized content at record-time, 5 during edits, and/or in playback. Recapture of selected performance portions, coordination of group parts, and overdubbing may all be facilitated. Direct scrolling to arbitrary points in the performance timeline, lyrics, pitch cues and other temporally-synchronized content allows user to conveniently move through a capture or audiovisual edit session. In some cases, a user vocalist may be guided through the performance timeline, lyrics, pitch cues 10 and other temporally-synchronized content in correspondence with group part information such as in a guided short-form capture for a duet. A scrubber allows user vocalists to

conveniently move forward and backward through the temporally-synchronized content.



21: 2020/07499. 22: 2020/11/26. 43: 2021/10/08
51: F16G
71: SCHMIEDESTÜCK-VERTRIEB FEUERSTEIN GMBH
72: Till STUKENBERG
33: DE 31: 10 2018 115 129.2 32: 2018-06-22
54: BLOCK LOCK FOR ROUND STEEL CHAINS FOR MINING
00: -

Block lock (100) for round steel chains, having two half-elements (10) which are displaceable relative to one another for opening and closing the block lock (100) and which each have ends connected to one another via a longitudinal web (10.1), of which in each case one end has an insertion plug (11) with a width reduced in relation to the longitudinal web and with retaining webs (13.1, 13.2) integrally formed on both sides, wherein at least two parallel retaining webs (13.1, 13.2) are arranged above one another on each side, and of which in each case the other end has a receiving pocket (12) which serves to receive the insertion plug (11) and on the two lateral inner flanks of which there are in each case formed at least two retaining grooves (14.1, 14.2) above one another to form a toothing by receiving the retaining webs (13.1, 13.2). A central web (10.2) extends inwardly from at least one longitudinal web (10.1). The insertion plug (11) widens, as seen in side view, from the longitudinal web (10.1) towards its end, and the length of the retaining webs (13.1, 13.2) increases. At the same time, the receiving pocket (12), as seen in side view, narrows from the longitudinal web (10.1) to its end.

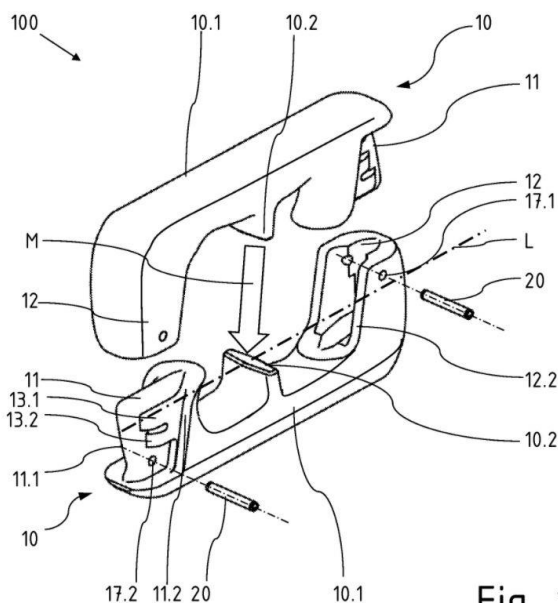


Fig. 1

21: 2020/07529. 22: 2020/12/03. 43: 2021/08/05
51: C05G; C09K
71: JILIN UNIVERSITY
72: GAO, YAN, ZHOU, ZHENGXIN
33: CN 31: 201911240091.5 32: 2019-12-04
54: CONDITIONER CONTAINING PHOSPHORYLATED RESIDUES FOR ALKALINE SOIL AND PREPARATION METHOD AND USE THEREOF
00: -

The present disclosure belongs to the technical field of soil improvement, and provides a conditioner containing phosphorylated residues for alkaline soil, and a preparation method and use thereof. The method is implemented by liquefying crop stalks and livestock and poultry manure at a high temperature and a high pressure to obtain agricultural solid residues, and mixing with phosphorylated residues to obtain a conditioner containing phosphorylated residues for alkaline soil. The method is simple, and can process a large amount of industrial and agricultural wastes in a relatively short time, achieving efficient recycle and utilization of wastes. The method mainly solves pollution problems of phosphorylated residues, and agricultural wastes of stalks and livestock and poultry manure. The method also promotes sound agricultural development, and improves economic benefits.

21: 2020/07535. 22: 2020/12/03. 43: 2021/10/08

51: C23C

71: ARCELORMITTAL

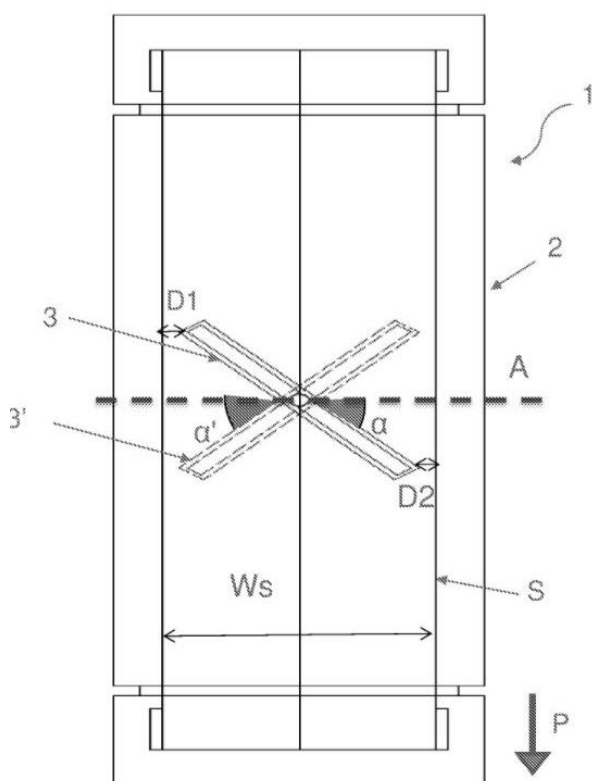
72: Eric SILBERBERG, Sergio PACE, Rémy BONNEMANN

33: IB 31: PCT/IB2018/054299 32: 2018-06-13

54: VACUUM DEPOSITION FACILITY AND METHOD FOR COATING A SUBSTRATE

00: -

The present invention relates to A Method for continuously depositing, on a running substrate, coatings formed from at least one metal inside a Vacuum deposition facility comprising a vacuum chamber; a substrate coated with at least one metal on both sides of the substrate having an average thickness, wherein the coating is deposited homogeneously such that the maximum thickness of the coating can exceed the average thickness of 15% maximum and a vacuum deposition facility.



21: 2020/07564. 22: 2020/12/04. 43: 2021/08/05

51: C12N

71: ALPHA ANOMERIC SAS

72: RENNER, Wolfgang

33: US 31: 62/670,319 32: 2018-05-11

54: OLIGONUCLEOTIDES CONJUGATES COMPRISING 7'-5'-ALPHA-ANOMERIC-BICYCLIC SUGAR NUCLEOSIDES

00: -

The invention provides for an oligonucleotide lipid group conjugate, wherein the oligonucleotide comprises at least two alpha anomeric bicyclo-DNA residues connected by a phosphodiester bond, and wherein the lipid group is attached to the oligonucleotide via a linker. The invention also provides for methods of modulating gene expression using an oligonucleotide lipid group conjugate.

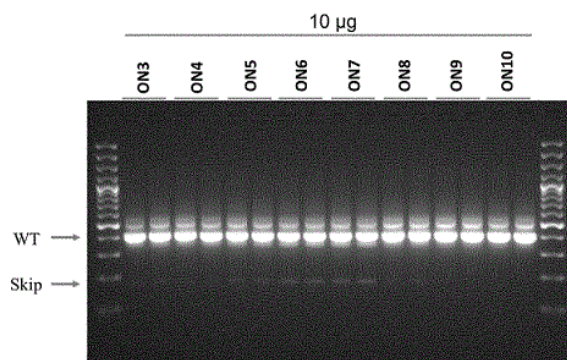


FIG. 9A

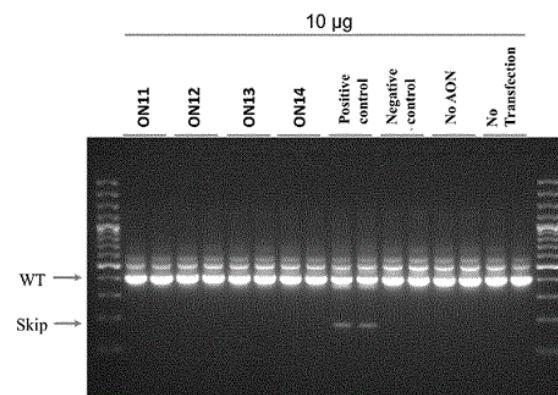


FIG. 9B

21: 2020/07580. 22: 2020/12/04. 43: 2021/07/30

51: B01D F24F

71: FANCA TECHNOLOGIES PTY LTD.

72: FANNING, Andrew

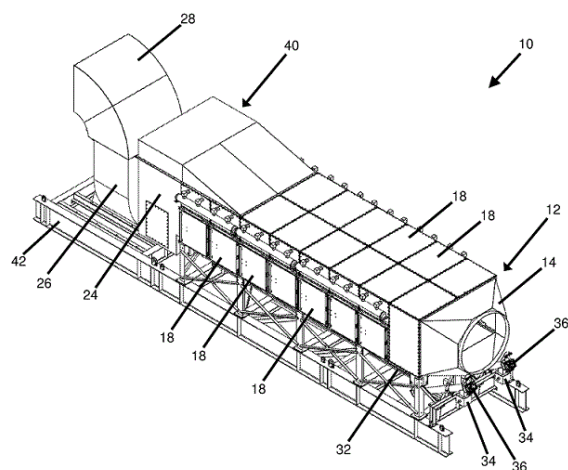
33: AU 31: 2018904361 32: 2018-11-15

54: DUST EXTRACTION DEVICE

00: -

A dust extraction device for filtering air, the dust extraction device including one or more filter housing, each having at least one air filter, an inlet

housing fluidly connected to the filter housing, a fan assembly including a fan, a fan inlet and a fan outlet, the fan assembly fluidly connecting the filter housing to the fan outlet, and a support frame for supporting the filter housing, inlet housing and the fan assembly.



21: 2020/07590. 22: 2020/12/07. 43: 2021/08/05

51: F42B

71: DIEHL DEFENCE GMBH & CO. KG.

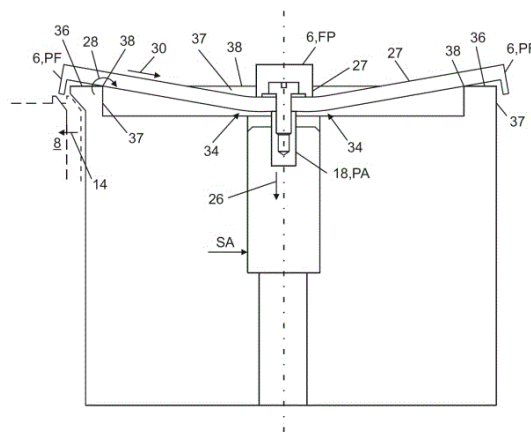
72: NEUKAM, Stefan, BÄR, Klaus

33: DE 31: 10 2019 008 539.6 32: 2019-12-10

54: MISSILE WITH PYROTECHNIC UNLOCKING

00: -

A missile (2) contains a device (4) for unlocking a component (8) locked by a catch (6), having the at least one catch (6), which can be moved between a blocking position (PB) that locks the component (8) and a release position (PF) that releases the component (8), having a pyrotechnic force element (16) with an output (18), which, in response to a trigger signal (SA), can be moved pyrotechnically out of a passive position (PP) into an active position (PA).



21: 2020/07602. 22: 2020/12/07. 43: 2021/08/11

51: A45D A61M A61Q

71: BRICKELL BIOTECH, INC.

72: BRINKMAN, Herbert, KOLENG, John, ALZENSTAT, Aron, SKLAWER, Andrew, NAGAO, Tatsuro, TAKAOKA, Masayoshi

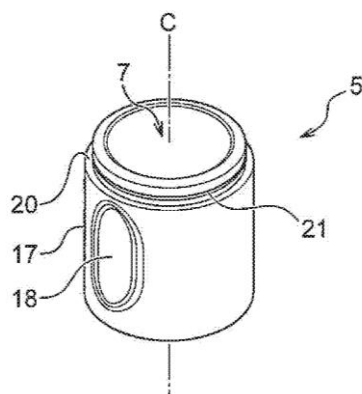
33: JP 31: 2018-92243 32: 2018-05-11

33: US 31: 62/670,475 32: 2018-05-11

54: APPLICATOR AND SYSTEM FOR PHARMACEUTICAL PREPARATION AND METHOD OF USE

00: -

An applicator and applicator system are provided for a topically or transdermally applying a pharmaceutical preparation or formulation. The applicator and applicator system can reduce drip during use, provide efficient transfer of a dose of the pharmaceutical preparation or formulation from the applicator to the skin of a patient, and can be used hands-free, which can reduce, prevent or eliminate cross-contamination to other areas, including undesired application to other parts of the skin or to other individuals. The applicator and applicator system include a therapeutic surface which can receive a single dose of the pharmaceutical preparation and can be manipulated by the user to transfer and apply the pharmaceutical preparation on a body surface.



21: 2020/07639. 22: 2020/12/08. 43: 2021/08/04

51: C22C

71: HELA Novel Metals LLC

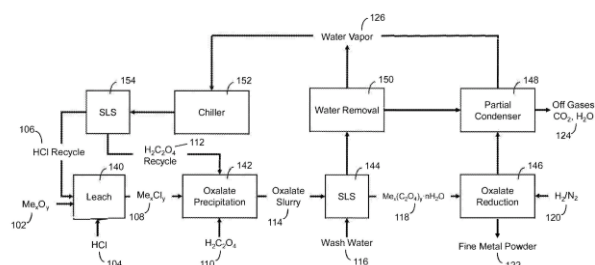
72: KASAINI, Henry W.

33: US 31: 62/678,247 32: 2018-05-30

54: METHODS FOR THE PRODUCTION OF FINE METAL POWDERS FROM METAL COMPOUNDS

00: -

Methods for the manufacture of fine metal powders from metal carboxylate compounds such as metal oxalate compounds. The method includes decomposing particulates of the metal oxalate compound by heating to a decomposition temperature in the presence of a dilute hydrogen gas to decompose the metal oxalate compound, and forming a fine metal powder by heating to a higher refining temperature to remove contaminants from the metal powder. The method may include the conversion of a non-oxalate metal compound to a hydrated metal oxalate and the dehydration of the hydrated metal oxalate before decomposition to the metal. The method is applicable to the production of a wide variety of metals, and is particularly applicable to the production of rare earth metals of high purity and fine particle size.



21: 2020/07640. 22: 2020/12/08. 43: 2021/08/04

51: B01D; B01J; C13B

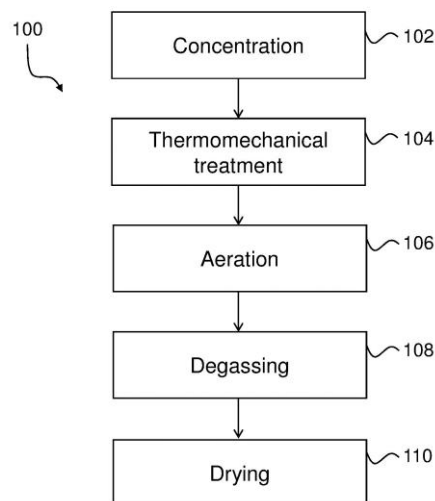
71: Biomass Technologies Pty Ltd

72: SCOTT, Maxwell, BROWN, Rodney

54: METHOD AND APPARATUS FOR MANUFACTURE OF DRY POWDERS

00: -

A method of production of a homogeneous powdered product from a starting product in a liquid state, the starting product having sugars as at least 60% of its total solids, the method comprising: in the absence of air: pressurizing the starting product to a pressure greater than 1 bar; injecting a gas into the starting product to form a mixture in which the starting product is substantially saturated by the gas; and degassing the mixture into a continuous stream of transport gas such that, on contact with the transport gas, water from the mixture evaporates to leave the homogeneous powdered product.



21: 2020/07680. 22: 2020/12/09. 43: 2021/08/05

51: A01D; A01G; B60P

71: TURF GAMECHANGER OY

72: KRISTIANSSON, Pasi, KAIVOSOJA, Ilkka

33: FI 31: 20185622 32: 2018-07-05

54: LAWN MAINTENANCE MACHINE

00: -

The invention relates to a lawn maintenance machine comprising a container (10) and a movable wall (40), the movable wall (40) dividing the container (10) to a first storage (20) having a first length in a longitudinal direction, and a second storage (30) having a second length in the

longitudinal direction, wherein the second storage (30) is placed rearward from the first storage (20), the lawn maintenance machine further comprising an actuator arrangement configured to move the movable wall (40) forward and backward in the longitudinal direction in order to increase and decrease, respectively, the volume of the second storage (30). The invention further relates to a method for taking care of a lawn or a turf. This invention further relates to a lawn maintenance method and a lawn maintenance system.

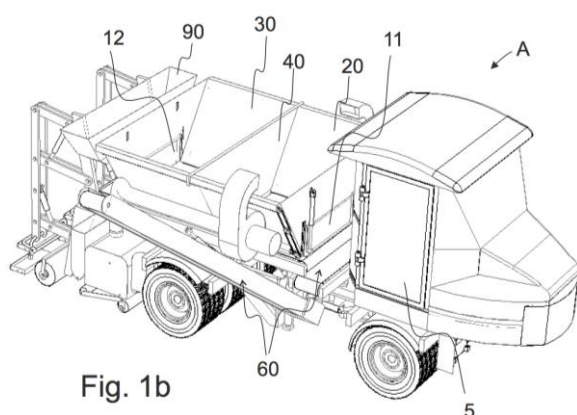


Fig. 1b

21: 2020/07701. 22: 2020/12/10. 43: 2021/08/12

51: C07C, C08K

71: EVONIK OPERATIONS GMBH

72: SCHULZ, Imke, GRASS, Michael, FRANKE, Robert, KRAFT, Johannes, BELLER, Matthias, JACKSTELL, Ralf

33: EP 31: 19216888.8 32: 2019-12-17

54: TRIESTERS OF CYCLOHEXANETRIPROPIONIC ACID

00: -

The invention relates to triesters of cyclohexanetripropionic acid, preparation thereof and use thereof as plasticizers for polymers.

21: 2020/07722. 22: 2020/12/10. 43: 2021/08/11

51: A47K; B67D; G08B

71: WATERIO LTD.

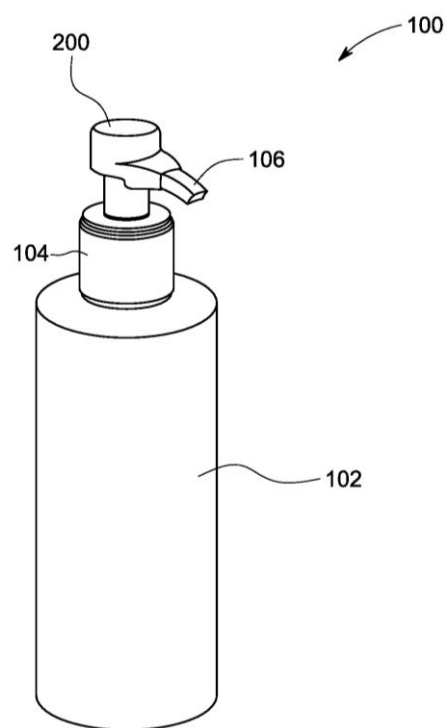
72: BENTKOVSKI, Yakov

33: US 31: 62/672,234 32: 2018-05-16

54: DISPENSING MONITORING SYSTEM & METHOD

00: -

Disclosed is a dispensing system. The dispensing system includes a fluid container adapted to store a fluid, and having a predefined storage capacity; a memory unit having a plurality of instructions and information pertaining to the fluid contained in the fluid container, stored therein; a dispensing pump associated with the fluid container, the dispensing pump adapted to selectively dispense fluid from the fluid container; a sensor configured to detect dispensing of fluid from the fluid container; and a processing unit in communication with each of the sensor and the memory unit. The processing unit is adapted to process the set of instructions stored in the memory unit to determine quantity of fluid dispensed from the fluid container, upon receiving a signal from the sensor.



21: 2020/07735. 22: 2020/12/11. 43: 2021/08/11

51: B66C; B66F

71: MANITOU ITALIA S.R.L.

72: IOTTI, MARCO

33: IT 31: 102019000023835 32: 2019-12-12

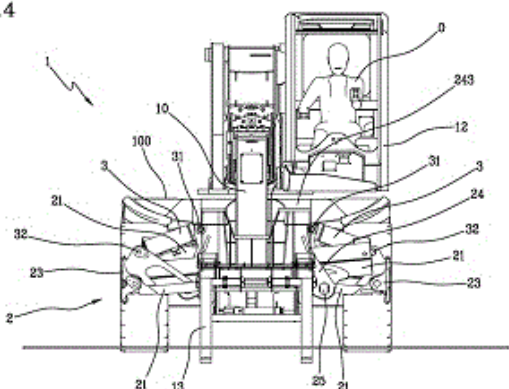
54: OPERATING MACHINE WITH IMPROVED STABILISERS

00: -

A self-propelled operating machine (1) equipped with stabilizers which comprise a front stabilizing unit (2),

mounted on a chassis (100) of the machine (1), which is movable on wheels and is fitted with a driver's cab (12) for an operator (O). The stabilizing unit (2) comprises a supporting frame (24) and two stabilizing arms (21, 22, 23), each of which includes a first segment (21) hinged to the frame (24) by a pin (25) located at a lower side of the first segment (21).

Fig.4



21: 2020/07738. 22: 2020/12/11. 43: 2021/08/11
51: G06F; G06K; G06N; G08C

71: International Business Machines Corporation
72: KURIEN, Toby, YOUNG, Richard,
WELDEMARIAM, Komminist

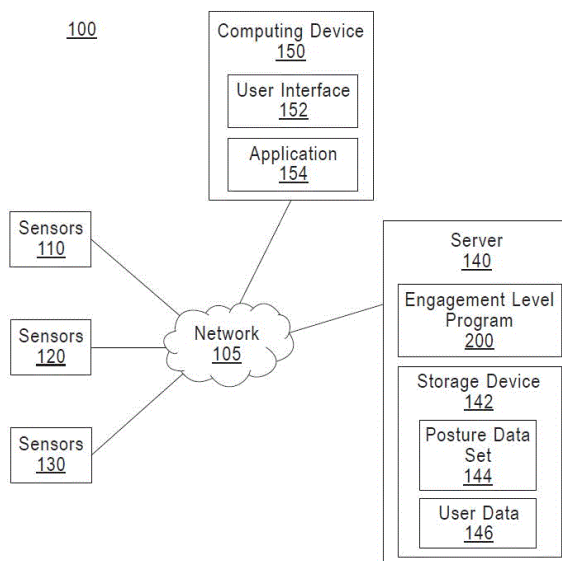
33: US 31: 16/925,725 32: 2020-07-10

54: DETECTING AND MANAGING AUDIENCE ENGAGEMENT

00: -

Aspects of the present invention disclose a method, computer program product, and system for determining engagement levels of an audience and providing associated recommendations to a presenter. The method includes one or more processors receiving sensor data from sensors located in an audience area during a presentation. The method further includes one or more processors determining an engagement level for a first individual in the audience area utilizing sensor data from sensors associated with the first individual. The method further includes one or more processors determining whether the determined engagement level for the first individual indicates that the first individual is not engaged with the presentation. In response to determining that the determined engagement level of the first individual indicates that the first individual is not engaged with the presentation, the method further includes one or

more processors determining recommendations to increase engagement of the first individual.



21: 2020/07740. 22: 2020/12/11. 43: 2021/08/11
51: G06N; G06Q

71: Zensar Technologies Limited

72: KISHORE, Sandeep, KULKARNI, Sumant,
JAHNAVI, Agepati, S M, Hari Eswar, CHAURASIA,
Aishwarya, SAWHNEY, Richa, SOMANI, Shree
Krishna

33: IN 31: 201921051734 32: 2019-12-13

54: METHOD AND SYSTEM FOR IDENTIFYING AT LEAST A PAIR OF ENTITIES FOR A MEETING

00: -

Disclosed herein is a system and method for identifying entities from a service provider side and a client side for a meeting. The system identifies a client service having a highest similarity score with the service type required by the client. It then identifies, a first set of service provider and client entities. It further identifies a second set of service provider and client entities based on a plurality of service provider and client parameters respectively such that the second set of service provider and client entities have a highest similarity score vis-à-vis the first set of service provider and client entities respectively. Further, it generates, based on a set of predicted time dependent win-ratios, one or more combinations comprising at least a pair of entities. Each combination is assigned with a success score

and at least one combination is selected based on the success score.

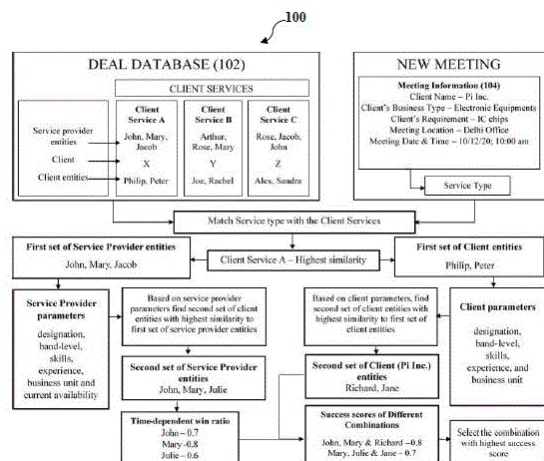
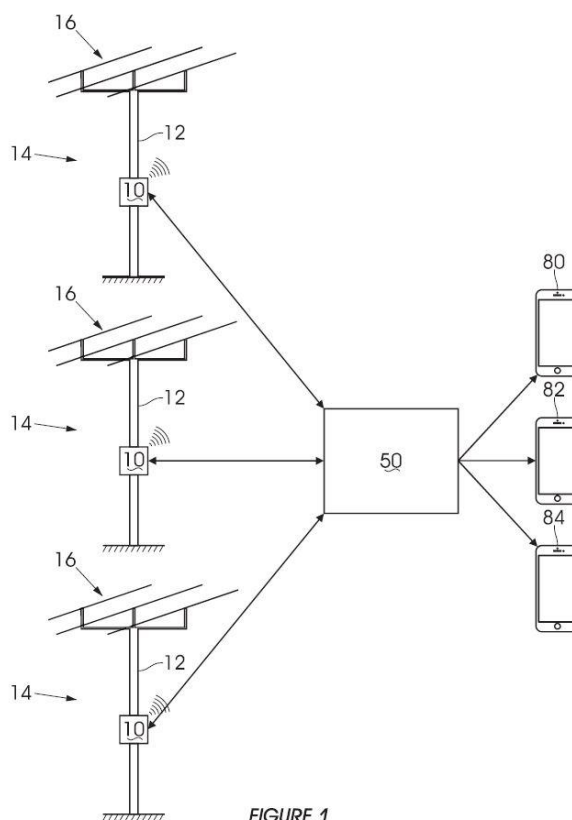


FIGURE 1

21: 2020/07741. 22: 2020/12/11. 43: 2021/08/11

51: G01R; G06F

71: ESKOM HOLDINGS SOC LIMITED

72: ADIGUN, Peter Ayotola

54: DEVICE, SYSTEM AND METHOD FOR FAULT DETECTION

00: -

The invention relates to a fault current detection device for an overhead power line. The fault current detection device is configured to apply a fault detection algorithm which includes a duration test and a return to normal test. The fault current detection device reports a fault current to a remote fault monitoring device only if both tests are passed. The fault monitoring device is configured to apply an alert ranking algorithm to determine which of a plurality of the fault current detection devices is closest to a fault. The alert ranking algorithm includes identifying or establishing a location of an upstream source associated with the fault current detection devices and classifying the fault current detection device which is the furthest downstream from the upstream source as the closest to the fault. A fault current detection method and a fault detection system and method are disclosed.

21: 2020/07754. 22: 2020/12/11. 43: 2021/08/11

51: B03B

71: ROBIN DUNCAN KIRKPATRICK, COLIN JURIE

LOTTER, JOHANN ANTON SCHNEIDER

72: ROBIN DUNCAN KIRKPATRICK, COLIN JURIE

LOTTER

33: ZA 31: 2018/03882 32: 2018-06-08

54: PROCESS AND EQUIPMENT ASSEMBLY FOR BENEFICIATION OF COAL DISCARDS

00: -

According to the invention, there is provided a process for the beneficiation of coal discards by increasing calorific value and carbon content while removing inert mineral matter and Sulphur compounds. The process involves the pre-treatment of wash water with a non-ionic kinetically energized surface-active agent and the admixture with a fixed mass of raw coal discard to enhance hydrophobicity and carboniferous particle agglomeration. Processing of the resulting suspension through a dedicated series of spiral separators and high frequency, resonance sieves reliably reduces excessive levels of mineral ash and Sulphur compounds.

21: 2020/07766. 22: 2020/12/11. 43: 2021/08/11

51: G01N; G06N; G16C; G16H

71: Pattern Bioscience, Inc.

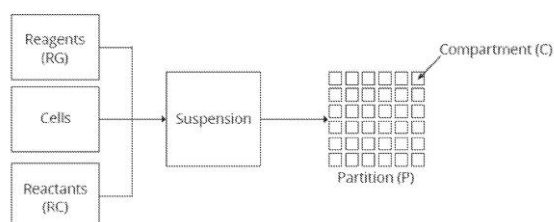
72: FISHER, Matthew, ARAB, Nicolas, Johnson, Ross, BUSSIAN, David

33: US 31: 62/684,736 32: 2018-06-13

54: COMPOSITIONS AND METHODS FOR CELLULAR PHENOTYPE ASSESSMENT OF A SAMPLE USING CONFINED VOLUME ARRAYS

00: -

Certain embodiments of the invention are directed to evaluating and identifying cells by recording and interpreting a time-dependent signal produced by unique cell respiration and permeability attributes of isolated viable cells.



21: 2020/07774. 22: 2020/12/14. 43: 2021/08/11

51: F16J

71: RULA HOLDINGS (PTY) LTD.

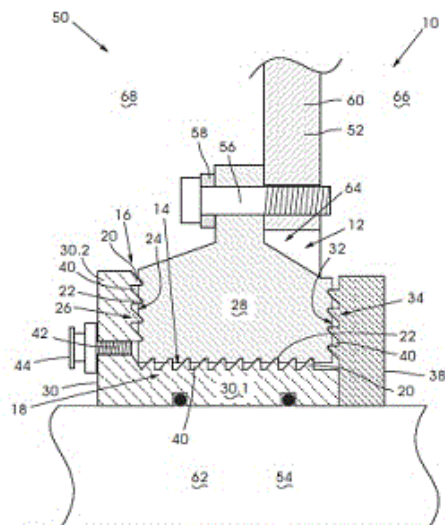
72: ODENDAAL, ROELF FREDRICK

33: ZA 31: 2019/08290 32: 2019-12-12

54: SEAL ASSEMBLY

00: -

A seal assembly 10, typically used with machinery having machine parts which rotate in environments comprising abrasive substances. The seal assembly 10 comprises a first seal arrangement 12 having a first bearing surface 14 of a flexible material and a second seal arrangement 16 having a first set 18 of more than one substantially rigid ridge formations 20. The arrangement is such that the more than one ridge formations 20 of the first set 18 are operatively arranged in contact with the first bearing surface 14. In this way, each of the ridge formations 20 causes a localised deformation of the bearing surface 14, thereby creating more than one sealing interface 22 between the first bearing surface 14 and the first set 18.



21: 2020/07789. 22: 2020/12/14. 43: 2021/08/11

51: A01N; A01P; C12P

71: ETHANOL TECHNOLOGIES LIMITED

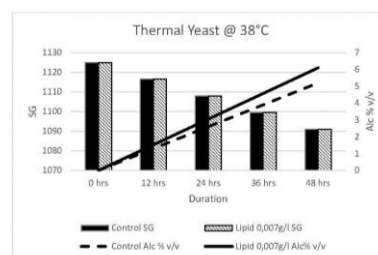
72: CAMBRAY, Garth Anton

33: ZA 31: 2018/03407 32: 2018-05-23

54: THE PROMOTION OF FUNGAL AND MICROBIAL PROCESSES

00: -

A nutrient additive for a fungus or a microbe, or for use in a process employing a fungus or a microbe, includes an optional diluent and a lipid portion or lipid composition. The lipid portion or lipid composition includes free or saponified fatty acids, free fatty alcohols, wax esters, hydrocarbons and at least one phospholipid. The free fatty alcohols make up at least 5% by mass of the lipid portion or lipid composition and the phospholipid or phospholipids make up at least 0.4% by mass of the lipid portion or lipid composition. The invention extends to a microbial fermentation process for producing alcohol.



21: 2020/07803. 22: 2020/12/15. 43: 2021/08/12

51: C07C, C08K

71: EVONIK OPERATIONS GMBH
72: DONG, Kaiwu, FRANKE, Robert, JACKSTELL, Ralf, BELLER, Matthias

33: EP 31: 19216884.7 32: 2019-12-17

54: ALKOXYCARBONYLATION OF TRIVINYLCYCLOHEXANE

00: -

A process for the alkoxycarbonylation of trivinylcyclohexane.

21: 2020/07812. 22: 2020/12/15. 43: 2021/08/11

51: C07K C12P

71: JIANGSU HENGRUI MEDICINE CO., LTD.

72: ZHAO, Liangliang, HAN, Guangjie, NIU, Ningning, LI, Na, LIU, Yanwei, WANG, Hongwei

33: CN 31: 201810507928.7 32: 2018-05-24

54: METHOD FOR PREPARING PRECURSOR OF RECOMBINANT HUMAN INSULIN OR ANALOGUE THEREOF

00: -

Disclosed is a method for preparing a precursor of a recombinant human insulin or an analogue thereof, comprising: a. bacterial fermentation, centrifuging a fermentation broth in a continuous flow to collect a supernatant; b. filtering the supernatant in step (a) by means of a hollow fiber membrane and collecting the filtrate; and c. purifying the filtrate in step (b) by means of a chromatography column. The method has the advantages of streamlined steps, scalability, no use of organic solvents, high yield, etc. The purity of the insulin precursor can exceed 90%, the host cell protein removal rate exceeds 90%, and the exogenous DNA removal rate is 89% or greater, achieving less than 0.1 ng/mg.

21: 2020/07822. 22: 2020/12/15. 43: 2021/10/08

51: A61K; A61P

71: UNIVERSITÄT ZÜRICH

72: Mireia SOSPEDRA RAMOS, Roland MARTIN

33: EP 31: 18180326.3 32: 2018-06-28

54: IMMUNODOMINANT PROTEINS AND FRAGMENTS IN MULTIPLE SCLEROSIS

00: -

The disclosure relates to the treatment, diagnosis and/or prevention of multiple sclerosis (MS) by using an immunodominant protein or peptide. More particular the invention relates to the field of antigen specific immunotherapies, such as the induction of tolerance.

21: 2020/07823. 22: 2020/12/15. 43: 2021/08/06

51: G06F; H04L

71: IOT.nxt BV

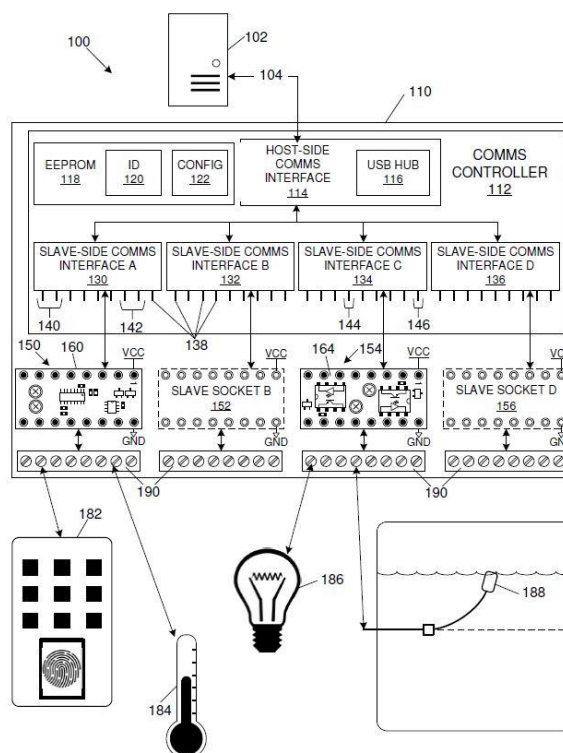
72: JACOBS, Gysbert Johannes, DU TOIT, Rudi Deodat

33: ZA 31: 2018/03814 32: 2018-06-08

54: A COMMUNICATION APPARATUS

00: -

A communication apparatus is disclosed with a communication controller that has a host-side communication interface for communicating with a host and a plurality of slave-side communication interfaces. Each slave-side communication interface has a plurality of electrical pins that are configurable to define a communication port that implements a selected communication protocol thereon. Each pin is in electrical communication with a slave socket having a predetermined layout. Each slave socket is configured to receive a protocol adapter that corresponds to the selected communication protocol and that is configured to facilitate communication between an external slave device and the relevant communication port.



21: 2020/07824. 22: 2020/12/15. 43: 2021/08/06

51: B60H; B60P; B65D; F25D

71: REEFER AIR FLOW TECHNOLOGIES (PTY) LTD

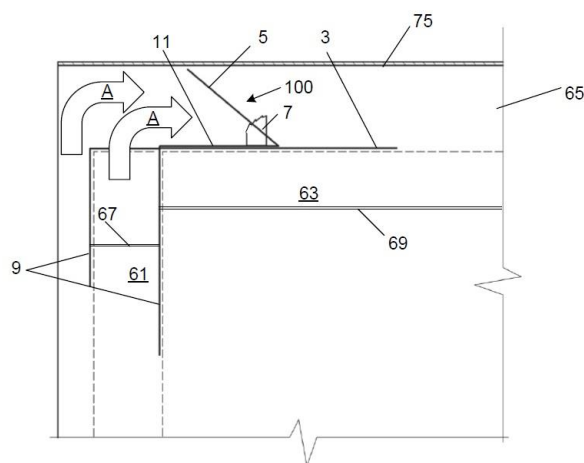
72: DODD, Malcolm Caulton, HUGO, Barry James, OSNER, Craig Wayne

33: ZA 31: 2018/05820 32: 2018-08-30

54: A BAFFLE ASSEMBLY FOR A REFRIGERATION CONTAINER

00: -

A baffle blank for a baffle assembly and a method for deploying the baffle assembly in a storage container for manipulating air flow in the container is provided. The baffle blank is made of stiff planar sheet material and has fold lines, cut lines and sulcations arranged to form a base, a deflector extending from the base along a hinge line, and an angle selector formed as cut-out in the baffle blank. The baffle blank is operable between a collapsed condition in which the base, deflector and angle selector lie in a substantially planar configuration, into a deployed baffle assembly in which the deflector is secured at a selected angle relative to the base by the angle selector with the angle selector extending between the base and deflector.



21: 2020/07834. 22: 2020/12/15. 43: 2021/08/06

51: A61K; A61P

71: Professional Dietetics International S.r.l.

72: GIORGETTI, Paolo Luca Maria

33: IT 31: 102018000006725 32: 2018-06-27

54: COMPOSITIONS COMPRISING AMINO ACIDS FOR USE IN THE PREVENTION AND TREATMENT OF LIVER DISEASES

00: -

Composition for use in the prevention and/or treatment of a liver disease in a mammal, the composition comprising an active agent, said active agent containing the amino acids leucine, isoleucine,

valine, threonine, lysine and the carboxylic acids citric acid, succinic acid, malic acid.

21: 2020/07861. 22: 2020/12/15. 43: 2021/08/12

51: A01H

71: SHANDONG AGRICULTURAL UNIVERSITY

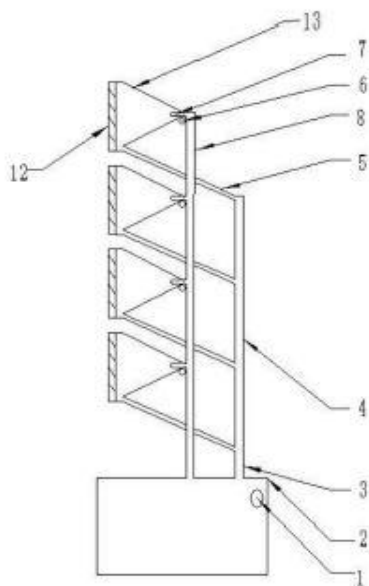
72: SHEN, Xiang, MAO, Yunfei, HU, Yanli, WANG, Wenli, WEI, Shaochong, CHEN, Xiaoliu, MAO, Zhiquan, CHEN, Xuesen, YIN, Yijun, ZHANG, Lulu, SU, Xiafei, LIU, Yeping, PANG, Huiling, YANG, Lu, WANG, Yunyun, YIN, Xinyu

33: CN 31: 201911290192.3 32: 2019-12-16

54: DEVICE FOR APPLYING POLLINATING SOLUTION BASED ON DUAL CONTROL OF POSITION AND FLOW RATE AND METHOD FOR ADJUSTING FRUIT SET RATE OF FRUIT TREE

00: -

The invention discloses a liquid pollination spray device and a use. The method of liquid pollination with this device. The device includes: Liquid storage barrel, spray rod connected with the liquid storage barrel, on which the spray rod is arranged, at least one spray head; a protective cover is provided on the spray head; the prevention. One end of the shield is fixed on the spray rod, and the other end is open; A shutter cover is provided at one end of the opening of the protective cover. To be pollinated the height of the pink fruit tree and the flower distribution position determine the boom length and the number of nozzles is adjusted according to the load of the fruit tree. Angle, adjust the liquid pollination solution according to the fruit set the concentration of pollen. The invention greatly reduces labor intensity, and at the same time improved efficiency; flexible adjustment according to orchard load. Set by fan fruit, simple and practical, easy to use, wide application range, low cost, can greatly reduce orchard pollination, thinning flowers and fruit labor.



connection point. As a result, a breaking or tearing of the tensioning band rarely occurs.

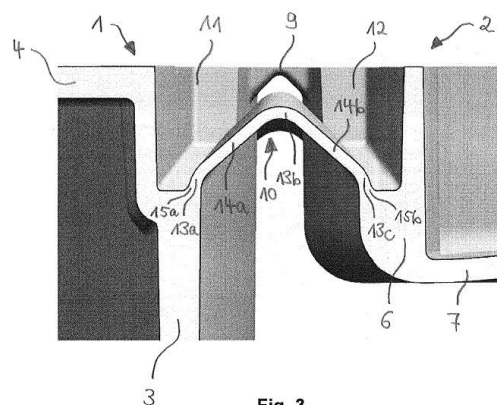


Fig. 3

21: 2020/07898. 22: 2020/12/17. 43: 2021/10/08
51: B65D

71: WEENER PLASTIK GMBH

72: Holger PRIES, Michael SCHIPPER, Jens BRAUER

33: EP 31: PCT/EP2018/068148 32: 2018-07-04

54: FLAP CLOSURE

00: -

The invention relates to a flap closure comprising a closure body (1) and a flap cover (2), which are connected to one another via at least one hinge (9) and via at least one tensioning band (10) in order to achieve a snap-effect when opening and/or closing the flap cover. In the unloaded state, in a cross-section perpendicular to the axis of rotation of the at least one hinge, the at least one tensioning band (10) has at least three curved sections and a substantially straight section between two respective neighbouring curved sections, as well as not curving in opposing directions. Alternatively, in the unloaded state of the at least one tensioning band (10), in a cross-section perpendicular to the axis of rotation of the hinge, the distance from a tangent at a central line between the edges of the at least one tensioning band at a connection point of the tensioning band with the closure body or with the flap cover to the axis of rotation of the at least one hinge (9) is max. three times the size, preferably max. twice the size, more preferably max. the same size and particularly preferably max. 0.5 times the size of the thickness of the at least one tensioning band at the respective

21: 2020/07909. 22: 2020/12/17. 43: 2021/08/12
51: G01N

71: STELLENBOSCH UNIVERSITY

72: WALZL, Gerhard, CHEGOU, Novel Njweipi, SOLOMONS, Regan Shane, MANYELO, Masilo Charles

33: ZA 31: 2018/03410 32: 2018-05-23

54: BIOMARKERS FOR DIAGNOSING TUBERCULOUS MENINGITIS

00: -

Methods, devices, kits and computer-implemented methods for diagnosing (and optionally treating) tuberculous meningitis (TBM) are provided. In one embodiment, the method comprises testing a cerebrospinal fluid (CSF) sample from a subject suspected of having TBM for the presence of MPO and at least two other biomarkers, at least one of the other biomarkers being selected from the group consisting of IFN-gamma, sICAM-1, VEGF-A and CXCL8. For example, the method can comprise testing the sample for MPO, IFN-gamma and VEGF-A or for MPO, IFN-gamma, sICAM-1 and CXCL8. In another embodiment, the method comprises testing a blood sample from a subject suspected of having TBM for the presence of at least one biomarker selected from the group consisting of adipsin (complement factor D), Ab42 and IL-10, and at least two other biomarkers. In one example, the method comprises testing the sample for the presence of adipsin (complement factor D), Ab42 and IL-10.

21: 2020/07917. 22: 2020/12/18. 43: 2021/08/12
51: H04L; H04N

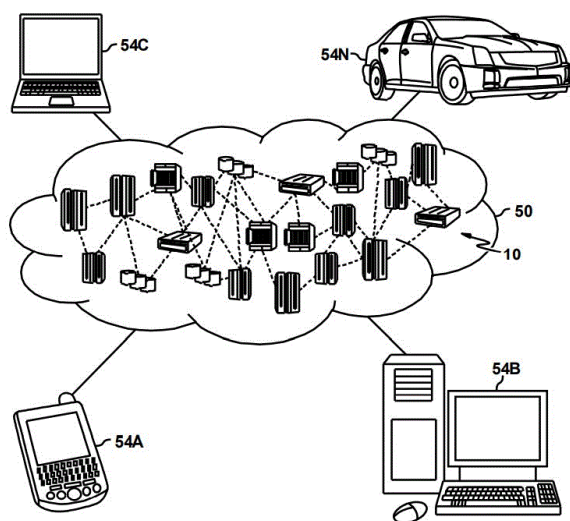
71: International Business Machines Corporation
72: KHAN, Naweed A., WELDEMARIAM,
Komminist, ASSEFA, Solomon

33: US 31: 16/733,532 32: 2020-01-03

54: CONTROLLING CONFERENCE CALL DIAL-INS AND HOLDING QUEUES

00: -

A method of operating a computer system configured to managing a digital conference call including a virtual holding queue includes establishing, by the computer system, the digital conference call connecting a plurality of current attendees, determining and classifying in real-time a confidentiality status of data being exchanged by the current attendees through the digital conference call, profiling each of the current attendees, profiling at least one caller attempting to join the digital conference call, modifying at least one content restriction on the data being exchanged in response to the profiling of the current attendees and the at least one caller, and enforcing, by the computer system, an eligibility criteria for the at least one caller to join the digital conference call based on the confidentiality status of the data.



21: 2020/07938. 22: 2020/12/18. 43: 2021/08/12
51: E02F; G06N; G06T

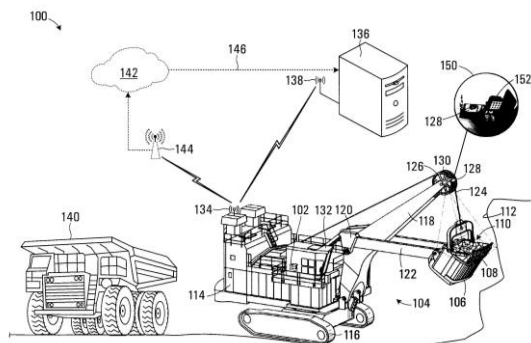
71: Motion Metrics International Corp.

72: TAFAZOLI BILANDI, Shahram, RAMEZANI,
Mahdi, NOURANIAN, Saman, SMITH, Kenneth,
GHAVIDEL, Sahar, SAMETI, Mohammad

54: METHOD, APPARATUS AND SYSTEM FOR MONITORING A CONDITION ASSOCIATED WITH OPERATING HEAVY EQUIPMENT SUCH AS A MINING SHOVEL OR EXCAVATOR

00: -

A computer processor implemented method and system for monitoring a condition associated with operating heavy equipment is disclosed. The method involves receiving a plurality of images at an interface of an embedded processor disposed on the heavy equipment, the images providing a view of at least an operating implement of the heavy equipment. The method also involves processing each of the plurality of images using a first neural network implemented on the embedded processor, the first neural network having been previously trained to identify regions of interest within the image. Each region of interest has an associated designation as at least one of a critical region suitable for extraction of critical operating condition information required for operation of the heavy equipment, and a non-critical region suitable for extraction of non-critical operating condition information associated with the operation of the heavy equipment. The method further involves causing the embedded processor to initiate further processing of image data associated with critical regions to generate local output operable to alert an operator of the heavy equipment of the associated critical operating condition. The method also involves transmitting image data associated with non-critical regions to a remote processor, the remote processor being operably configured for further processing of the image data and to generate output signals representing results of the further processing. The method further involves receiving the output signals generated by the remote processor at one of the embedded processor or another processor associated with a heavy equipment operations worksite, the output signals being presentable via an electronic user interface based at least in part on the output signals to indicate the results of the further processing.



21: 2020/07944. 22: 2020/12/18. 43: 2021/08/12

51: C03B

71: Saint-Gobain Glass France

72: BARET, Bertrand, MARTIN, Alexandre, WOELFFEL, William, PAPIN, Sophie

33: FR 31: 1856124 32: 2018-07-03

54: PREPARATION OF RAW MATERIALS FOR GLASS FURNACE

00: -

The invention relates to a device and a method for the preparation and furnace charging of raw materials for a glass furnace, comprising: a means for producing a mixture of raw material powder and liquid water, creating a moistened mass of raw material powder; a system for producing a mixture of cullet with the moistened mass of raw material powder, creating a mixture of raw material and cullet, known as the MP/C mixture; a raw material preheater in which the MP/C mixture circulates and is heated and dried in order to produce a mass to be charged in the furnace; and a furnace charging system for charging the mass in the glass furnace.

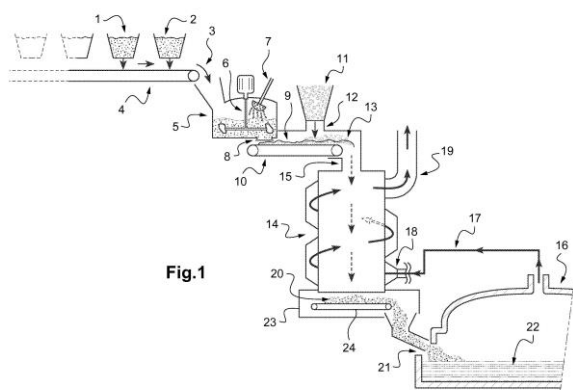


Fig.1

21: 2020/07947. 22: 2020/12/18. 43: 2021/08/12

51: A61F

71: Beijing Chunlizhengda Medical Instruments Co., Ltd

72: SHI, Chunbao, XU, Kuixue, LU, Xiaoqiang, DONG, Zeyu, SHI, Wenchao, XIE, Fengbao, WANG, Zhenguo

33: CN 31: 201811472414.9 32: 2018-12-04

54: TOE JOINT PROSTHESIS AND MANUFACTURING METHOD THEREFOR

00: -

A toe joint prosthesis (100) and a manufacturing method therefor. The toe joint prosthesis (100) comprises: a first medullary nail prosthesis (1) and a second medullary nail prosthesis (2) articulated with the first medullary nail prosthesis (1). The first medullary nail prosthesis (1) comprises a first medullary nail (11) arranged in a medullary cavity, and a second medullary nail (12), connected to the first medullary nail (11), and located outside the medullary cavity. The second medullary nail (12) is articulated with the second medullary nail prosthesis (2). A three-dimensional porous structure layer (5) is formed on the outer surface of the first medullary nail (11) and/or the second medullary nail (12) and/or the second medullary nail prosthesis (2), so as to allow better bone infiltration ability and bone crawling ability on the outer surface of the toe joint prosthesis, such that the fixation of the toe joint prosthesis is more stable.

100

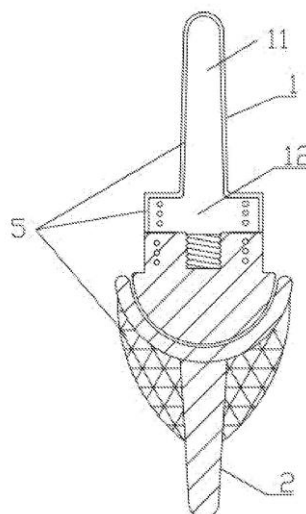


图 1

21: 2020/07949. 22: 2020/12/18. 43: 2021/08/12

51: A61F

71: Beijing Chunlizhengda Medical Instruments Co., Ltd

72: SHI, Chunbao, XU, Kuixue, LU, Xiaoqiang, XIE, Fengbao, WANG, Zhenguo, DONG, Zeyu, SHI, Wenchao

33: CN 31: 201811475455.3 32: 2018-12-04

54: BONE TRABECULA STRUCTURE AND PROSTHESIS USING SAME AND MANUFACTURING METHOD THEREFOR

00: -

Disclosed are a bone trabecula structure and a prosthesis using same and a manufacturing method therefor. The bone trabecula structure (100) comprises a body constructed as a three-dimensional porous structure (1); the three-dimensional porous structure (1) comprising a plurality of wire diameters (11) and a plurality of pores (12) formed by the plurality of wire diameters (11) interlacing with each other; the pores (12) having different average diameters and being intercommunicated with each other; the average diameter range of each pore (12) is 100 μ m to 400 μ m, and the pore rate range of the three-dimensional porous structure is 50% to 80%. The bone trabecula structure is more beneficial for the bone ingrowth of a patient after surgery, thereby improving the effect of post-surgery recovery.

100

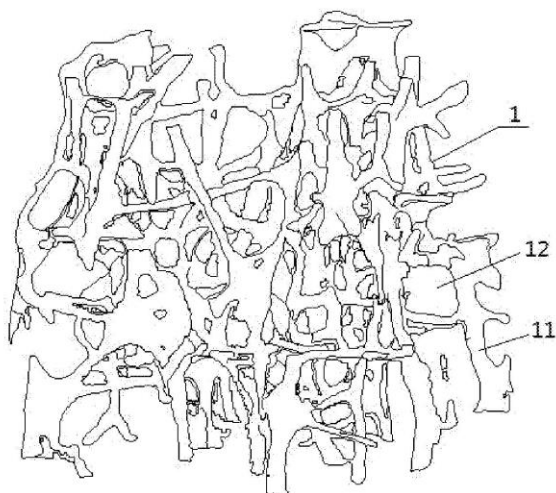


图 1

21: 2020/07956. 22: 2020/12/18. 43: 2021/08/12

51: A61K; A61P; C07D

71: F. Hoffmann-La Roche AG

72: DUPLESSIS, Martin, GOERGLER, Annick, JAESCHKE, Georg, KOCER, Buelent, KUHN, Bernd, LAZARSKI, Kiel, LIANG, Yanke, NAGEL, Yvonne Alice, OBST SANDER, Ulrike, RICCI, Antonio, RUEHER, Daniel, STEINER, Sandra

33: EP(CH) 31: 18180758.7 32: 2018-06-29

54: COMPOUNDS

00: -

The present invention provides compounds which are selective allosteric inhibitors of T790M/L858R, T790M/L858R/C797S, L858R, L858R/C797S containing EGFR mutants, their manufacture, pharmaceutical compositions containing them and their use as therapeutically active substances.

21: 2020/07968. 22: 2020/12/21. 43: 2021/08/11

51: A61K

71: PHARMATHEN S.A.

72: KARAVAS, Evangelos, KOUTRIS, Efthymios, SAMARA, Vasiliki, KOUTRI, Ioanna, KALASKANI, Anastasia, KAKOURIS, Andreas, FOUSTERIS, Manolis

54: IMMEDIATE RELEASE SOLID DOSAGE FORM COMPRISING TERIFLUNOMIDE AND METHOD OF PREPARATION THEREOF

00: -

The present invention relates to an immediate release stable pharmaceutical formulation for oral administration containing a therapeutically effective quantity of Teriflunomide or a pharmaceutically acceptable salt thereof, and a method for the preparation thereof.

21: 2020/07979. 22: 2020/12/21. 43: 2021/10/08

51: F04B

71: M2P-LABS GMBH

72: Niklas FRISCHE, Alexander KREMERS, Karlheinz HILDENBRAND, Christoph PETRY

33: DE 31: 10 2018 009 860.6 32: 2018-12-19

54: METHOD FOR INCREASING THE METERING PRECISION OF MICROFLUIDIC PUMPS OR VALVES AND WELDING DEVICE AND TENSIONING DEVICE FOR CARRYING OUT THE METHOD

00: -

The invention relates to a method for increasing the metering precision of microfluidic pumps and valves based on a flexible cover film/membrane and a valve trough, in which the surface of the membrane, which faces the valve trough, is heated using a laser beam.

21: 2020/07986. 22: 2020/12/21. 43: 2021/08/11
51: A61K; A61P; C07D

71: Heptares Therapeutics Limited

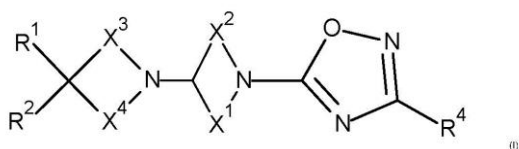
72: BROWN, Giles Albert, TEOBALD, Barry John, TEHAN, Benjamin Gerald

33: GB 31: 1810245.9 32: 2018-06-22

54: OXADIAZOLES AS AGONISTS OF THE MUSCARINIC M₁ AND/OR M₄ RECEPTOR

00: -

This invention relates to compounds that are agonists of the muscarinic M₁ and/or M₄ receptor and which are useful in the treatment of diseases mediated by the muscarinic M₁ and M₄ receptors. Also provided are pharmaceutical compositions containing the compounds and the therapeutic uses of the compounds. Compounds provided are of formula (I) where X¹; X²; X³; X⁴; R¹ R² and R⁴ are as defined herein.



21: 2020/08008. 22: 2020/12/22. 43: 2021/08/12
51: G06F; G06Q

71: PACE CAREER CENTRE (PTY) LTD.

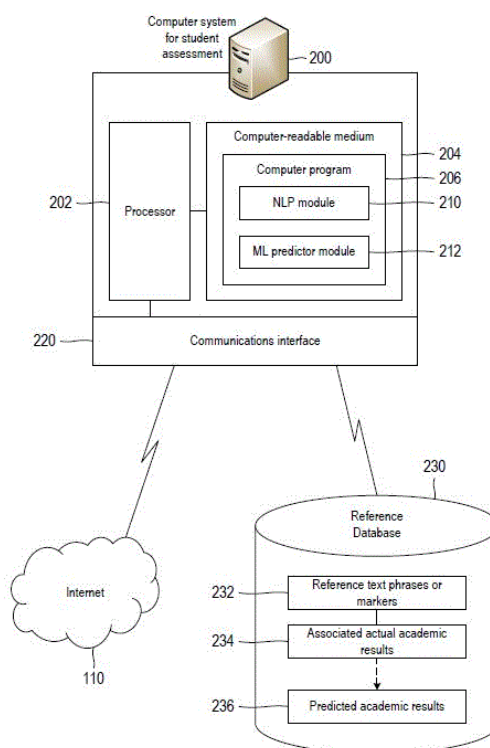
72: HERR, Avron

33: ZA 31: 2020/00571 32: 2020-01-29

54: A COMPUTERISED METHOD AND SYSTEM FOR STUDENT ASSESSMENT

00: -

This invention provides a computerised method and system for student assessment. The method includes a training phase of analysing, using an NLP module, a plurality of reference autobiographical texts respectively associated with a plurality of reference students and determining reference text phrases or markers which characterise each of the reference autobiographical texts and associating, using an ML predictor module, the reference text phrases or markers with actual academic results of the respective reference students. The method includes an assessment phase of analysing, using the NLP module, a current autobiographical text associated with a current student and determining current text phrases or markers which characterise the current autobiographical text and predicting, using the ML predictor module, future academic results of the current student by correlating the current text phrases or markers with the reference text phrases or markers and their associated actual academic results.



21: 2020/08012. 22: 2020/12/22. 43: 2021/08/12
51: B30B

71: GUANGDONG LIANXING FORGING MACHINE INDUSTRY CO., LTD

72: RUAN, NINGTAO

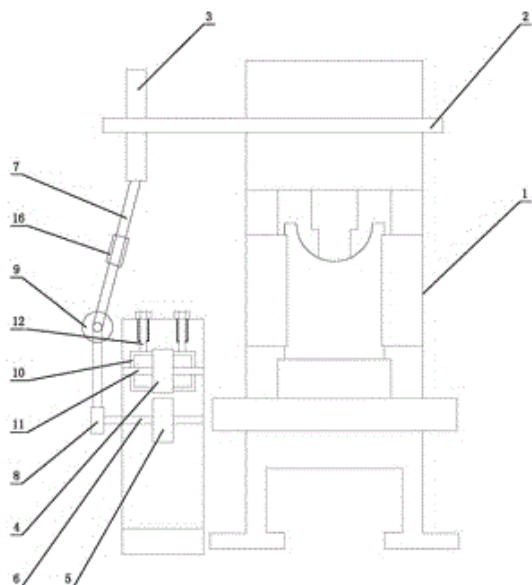
33: CN 31: 202010408389.9 32: 2020-05-14

33: CN 31: 202020341298.3 32: 2020-03-17

54: PRESS MACHINE WITH FEEDING DEVICE

00: -

A press machine with a feeding device comprises a crankshaft arranged on the press machine, a transmission disc is installed on the crankshaft, and an adjusting screw rod, a spherical joint transmission pair, an overrunning clutch, a ratchet wheel feeding pair and a feeding assembly of a blank leveling roller are arranged on one side of a working platform of the press machine. The feeding assembly comprises a feeding box body and a leveling component rotatably arranged in the feeding box body, the leveling component comprises an operation part and a driven operation part, and the operation part is in transmission connection with the transmission disc, so that the transmission disc drives the operation part to operate. The press machine is wide in application, reasonable in structure and convenient to use.



21: 2020/08029. 22: 2020/12/22. 43: 2021/08/12

51: C22B

71: MEGAW, Darren Craig

72: MEGAW, Darren Craig, CRUNDWELL, Frank Kenneth

33: AP 31: AP/P/2018/010837 32: 2018-06-28

54: OPTIMIZED BIOPROCESSING METHOD

00: -

Disclosed is method of leaching at least one desired element from feed material containing feed material fines, which includes combining such a feed material with a pulping solution comprising a liquid and a solution-hydrated or a solution-soluble polymer to form a treated slurry, with the polymer configured to predominantly capture at least part of the feed material fines prior to their settling out of the liquid slurry matrix, and with the polymer being added to the feed material in a predetermined ratio of polymer to feed material. The treated slurry is deposited in a deposition cell for leaching and further treatment. Also disclosed is a composition of a treated slurry, and treating any one or more of the feed material, the treated slurry or the deposited treated slurry with sulphide consuming bacteria.

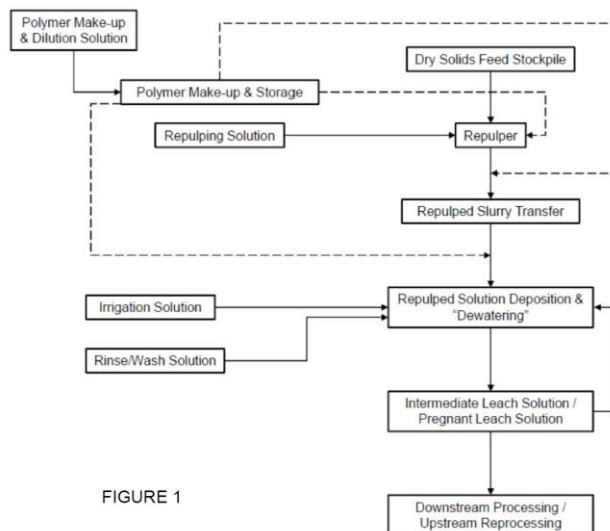


FIGURE 1

21: 2020/08034. 22: 2020/12/22. 43: 2021/08/12

51: A61K; A61P

71: Agios Pharmaceuticals, Inc.

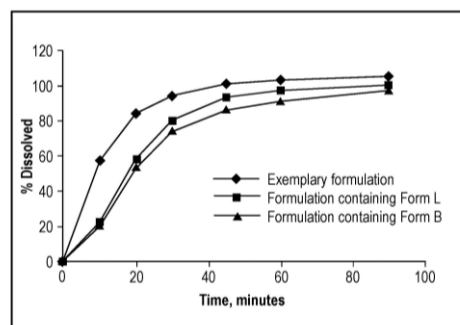
72: GU, Chong-Hui, SIZEMORE, Jacob Paul, ZHANG, Shijie

33: US 31: 62/694,596 32: 2018-07-06

54: IVOSIDENIB FORMS AND PHARMACEUTICAL COMPOSITIONS

00: -

Provided are formulations of ivosidenib including a number of polymorphs. Further provided are formulations of ivosidenib containing a number of known impurities. Still further provided are stable compositions of ivosidenib.



21: 2020/08073. 22: 2020/12/23. 43: 2021/08/12

51: B24B

71: CRRC Zhuzhou Motor Co., Ltd

72: XIAO, Lianxin, YANG, Xiasha, YANG, Xuejun, HE, Fengjie, XIANG, Yong, XIAO, Xiaoxuan, LONG, Yunfeng, ZHAO, Juncheng, DENG, Xianping, CAO, Jiayi, XIONG, Wenhao, XIA, Hongyong, LIU, Quan, OU, Xingzhuo, LAN, Wanling, HE, Peng, CHEN, Lijie, GU, Li, HE, Jiapeng

33: CN 31: 201811056734.6 32: 2018-09-11

54: GRINDING SYSTEM FOR ELIMINATING CRACK SOURCES OF INNER TAPERED BORE OF MOTOR ROTATING SHAFT AND GRINDING METHOD

00: -

A grinding system for eliminating crack sources of an inner tapered bore of a motor rotating shaft and a grinding method therefor; the grinding system comprises a movable device (1), a pneumatic gun (2), and a clamping device; the movable device (1) is configured to be detachably and fixedly mounted on an end cover of a driving end of a motor to be repaired, and has a movable part capable of moving axially relative to the inner tapered bore of said motor; the pneumatic gun (2) is clamped in the clamping device, and a grinding head (4) is mounted on the head portion of the pneumatic gun (2); the clamping device is rotatably connected to the movable part so as to move axially and synchronously with the movable part, and can rotate relative to the movable part so as to drive the feed of the grinding head (4); said grinding method comprises the steps: S1, positioning a pneumatic gun; S2, grinding crack sources; and S3, polishing grinded grooves. Using this grinding system and method requires low costs, does not require an additional working site, and can repair a motor at any time and on site, realizing the grinding operation of fatigue sources of a motor in a whole machine state, saving the process time, and reducing the repair cycle of a motor.

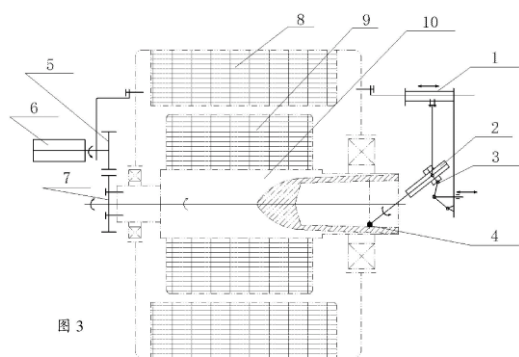


图 3

21: 2020/08096. 22: 2020/12/22. 43: 2021/09/09

51: B30B

71: TU BERGAKADEMIE FREIBERG

72: André SCHMIDT, Franz FEHSE, Hans-Werner SCHRÖDER, Felix STÖHR, Gerd KOHLHASE, Thomas SCHMIDT

33: DE 31: 10 2018 115 881.5 32: 2018-06-29

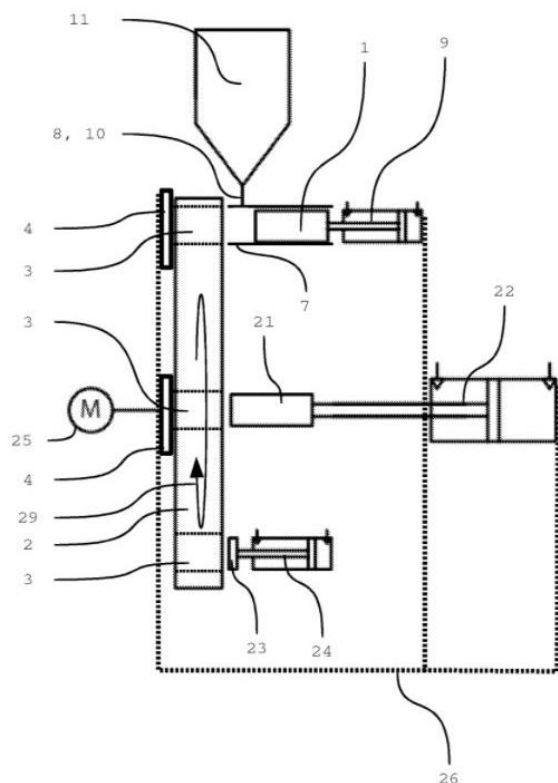
33: DE 31: 10 2018 120 529.5 32: 2018-08-22

54: METHOD FOR PRODUCING PRESSED PRODUCTS AND ASSEMBLY FOR PRODUCING PRESSED PRODUCTS

00: -

The invention relates to a method for producing pressed products and to an assembly for producing pressed products, in which the disadvantages of the prior art are overcome and an efficient method is achieved together with simple construction and simple implementation. Method for producing pressed products, in which, after feedstock has been supplied, the volume of the feedstock (11) is reduced and the feedstock subsequently undergoes a main compression process to form a pressed product and the pressed product is ejected, characterised in that, after the feedstock (11) is supplied, a preliminary compression process takes place to form a preliminary agglomerate (12) using at least one preliminary compression ram (1) or using at least one compacting screw (17) and the preliminary agglomerate (12) then undergoes the main compression process to form a pressed product in at least one compression mould (3) using at least one main compression ram (21) and the pressed product is then ejected from the at least one compression mould (3), the preliminary compression process, the main compression process and the ejection each taking place in a mutually parallel working direction. Assembly for producing pressed products, wherein, in at least one mould receiver (2), there is at least one compression mould (3) having a supply means (10) for feedstock (11), wherein the at least one compression mould (3) can be brought into alignment with at least one preliminary compression ram (1) or at least one compacting screw (17) and with at least one main compression ram (21), wherein the working directions of the at least one preliminary compression ram (1) or the at least one compacting screw (17) and the at least one main compression ram (21) are mutually parallel, wherein there is a counter pressing plate (4) on the side of the respective compression mould (3) or mould receiver (2) which is nearest or furthest away from the at least one preliminary compression ram (1), and there is a counter pressing plate (4) and/or a

moulding channel (30) with a narrowed region (31), on the side of the respective compression mould (3) which is furthest from the at least one main compression ram (21), wherein the at least one compression mould (3) is continuous in the working direction.



21: 2021/00010. 22: 2021/01/04. 43: 2021/08/26
51: C10G
71: INDIAN OIL CORPORATION LIMITED
72: LOGANATHAN, Kumaresan, KARTHIKEYANI, Arumugam Velayutham, DOOSA, Hima Bindu, THAKUR, Ram Mohan, PULIKOTTIL, Alex Cheru, SAU, Madhusudan, KAPUR, Gurpreet Singh, RAMAKUMAR, Sankara Sri Venkata
33: IN 31: 202021000190 32: 2020-01-02
54: A CATALYST COMPOSITION FOR OXIDATIVE DEHYDROGENATION OF ALKANE
00: -

The present invention provides a catalyst composition for the production of olefins from lighter alkanes by oxidative dehydrogenation route and methods of making the dehydrogenation catalyst composites.

21: 2021/00026. 22: 2021/01/04. 43: 2021/08/25
51: A61K; A61P
71: XINFU (BEIJING) MEDICAL TECHNOLOGY CO., LTD.
72: LIN, Haixiang, LIU, Fang, ZHA, Li
33: CN 31: 201810700708.6 32: 2018-06-29
33: CN 31: 201810698033.6 32: 2018-06-29
54: COMPLEX FOR ENHANCING IMMUNE RESPONSE
00: -

A novel composite, and research on the preparation, application and the like of the composite. The method for preparing the composite comprises: contacting a polyinosinic-polycytidylic acid, at least one cationic stabilizer, and a soluble calcium salt in a liquid reaction system, the cationic stabilizer being a water-soluble non-antibiotic amino compound having a molecular weight of less than or equal to 5 kDa, or a graft copolymer formed by a water-soluble non-antibiotic amino compound and one or more of methoxypolyethylene glycol, polyethylene glycol, polyethylenimine, folic acid, or galactose. The composite has moderate viscosity and molecular weight, is convenient to use in pharmaceutical application, has stable chemical properties, is not easy to be degraded in long-term storage, and is safe to use. The composite, if used alone, can significantly enhance the non-specific immune response of the body and achieve the purpose of preventing and treating diseases, and other drugs, and can achieve better anti-tumor, anti-viral and anti-(super) bacteria efficacy and is easily absorbed by patients, if used in combination with other drugs.

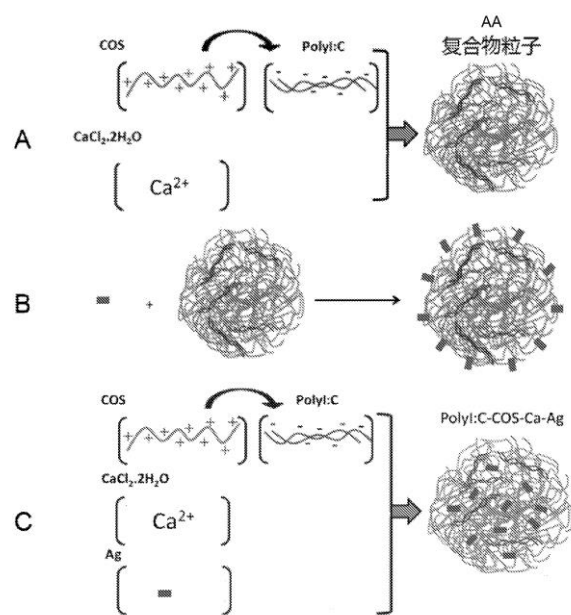
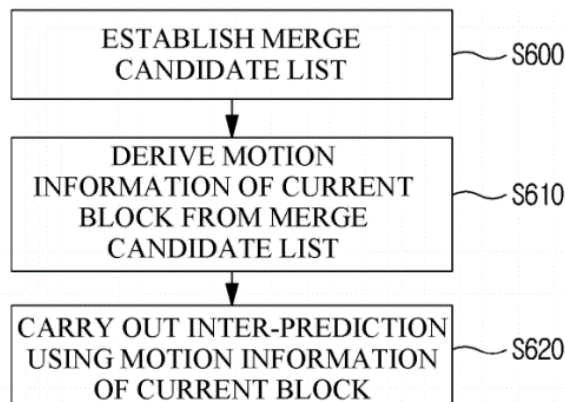


图1 AA Complex particle



21: 2021/00056. 22: 2021/01/05. 43: 2021/08/25

51: A61B

71: BRILL ENGINES, S.L.

72: BUISAN FERRER, José, VALAT, Laurent David, NIETO CAVIA, Laura

33: EP 31: 18382436.6 32: 2018-06-18

54: HANDHELD AESTHESIOMETER

00: -

The invention relates to a handheld aesthesiometer, comprising: a gas lung connected via first valve means to a gas source and comprising an expandable cavity intended to house a volume of gas in a loading phase of the aesthesiometer; an outlet nozzle connected to the gas lung via second valve means and suitable for directing a puff of the volume of the gas housed in the gas lung in a firing phase of the aesthesiometer; and a mechanism for ensuring the release, in the aforementioned firing phase of the aesthesiometer, of the puff of the volume of gas contained in the gas lung in the direction of the outlet nozzle by means of the controlled contraction of the expandable cavity of the gas lung, in order to ensure a substantially constant outlet pressure.

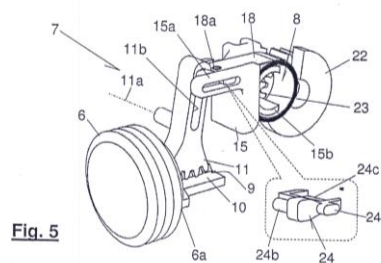


Fig. 5

21: 2021/00092. 22: 2021/01/06. 43: 2021/08/26

51: C12N; C07K

71: MODALIS THERAPEUTICS CORPORATION

21: 2021/00053. 22: 2021/01/05. 43: 2021/09/07

51: H04N

71: GUANGDONG OPPO MOBILE

TELECOMMUNICATIONS CORP., LTD.

72: KIM, Ki Baek

33: KR 31: 10-2018-0076177 32: 2018-06-30

33: KR 31: 10-2018-0085680 32: 2018-07-24

54: MERGE MODE-BASED INTER-PREDICTION METHOD AND APPARATUS

00: -

The present invention relates to a video encoding/decoding method and apparatus, which includes constructing a merge candidate list of a current block, deriving motion information of the current block from the merge candidate list, and performing inter-prediction of the current block using the motion information, where the merge candidate list includes at least one of a spatial merge candidate, a temporal merge candidate, or a combined merge candidate, and the combined merge candidate is derived by combining n merge candidates belonging to the merge candidate list. The present invention is advantageous in that accuracy of motion information can be improved using not only the spatial/temporal merge candidate but also the combined merge candidate.

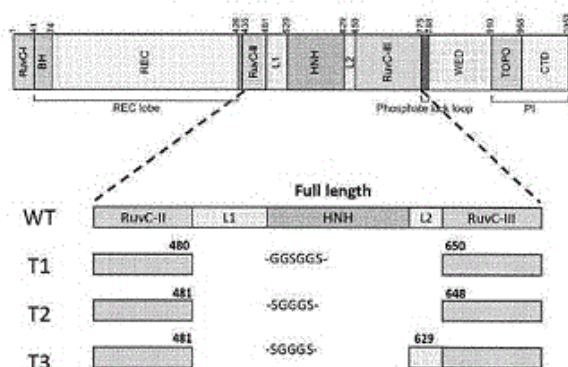
72: YAMAGATA, TETSUYA, QIN, YUANBO

33: US 31: 62/682,244 32: 2018-06-08

54: MODIFIED CAS9 PROTEIN AND USE THEREOF

00: -

According to the present invention, a protein, which has the ability to bind to guide RNA and has a sequence which has, in the amino acid sequence represented by SEQ ID NO: 2, a continuous deletion region between position 481 and position 649, wherein amino acid residues adjacent to the deletion region are linked together by a linker including 3-10 amino acid residues, and wherein (i) the deletion region contains all or a portion of an L1 domain (positions 481-519), (ii) the deletion region contains an entire HNH domain (positions 520-628), and (iii) the deletion region optionally contains all or a portion of an L2 domain (positions 629-649), functions as a smaller-sized dSaCas9 protein while maintains DNA-binding affinity. The use of the smaller-sized dSaCas9 protein allows more genes to be incorporated into a vector.



21: 2021/00097. 22: 2021/01/06. 43: 2021/08/26

51: G01M

71: SHANDONG UNIVERSITY OF SCIENCE AND TECHNOLOGY, TAISHAN UNIVERSITY

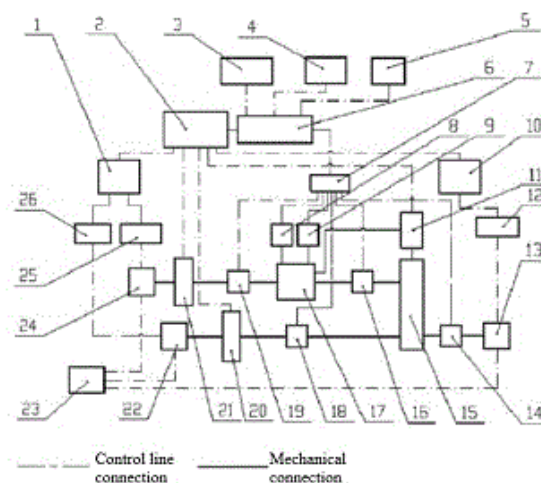
72: WAN, LIRONG, DAI, HANZHENG, ZENG, QINGLIANG, SUN, ZHIYUAN, TIAN, MINGQIAN, LIU, WENTING

33: CN 31: 201910097716.0 32: 2019-01-31

54: ELECTRIC LOADING MULTIFUNCTIONAL TEST BENCH FOR POWER-DIVIDING HYDRAULIC-MECHANICAL COMPOSITE TRANSMISSION SYSTEM AND APPLICATION THEREOF

00: -

An electric loading multifunctional test bench for a power-dividing hydraulic-mechanical composite transmission system and a method thereof. The test bench comprises a mechanical part and a control part. The test bench can achieve performance test of the hydraulic drive unit of the hydraulic-mechanical composite transmission system. By simulating the actual driving conditions and operating conditions of a vehicle in an application scenario, the transmission performance of the hydraulic drive unit of the hydraulic-mechanical composite transmission system is tested, and one-stage and multi-stage hydraulic transmission unit performance test, the test of the proportion of mechanical and hydraulic power flow of the composite transmission system and the automatic optimization of the distribution ratio of the mechanical and hydraulic power flow can be achieved. According to the matched universal characteristic curve of an engine, the optimal combined distribution scheme of the mechanical and hydraulic power flow is finally achieved, and power performance optimization is provided for vehicles, using a hydraulic-mechanical composite transmission system, that will be put into production in the future.



21: 2021/00129. 22: 2021/01/08. 43: 2021/08/26

51: B60S; B62D

71: GUANGDONG MECHANICAL & ELECTRICAL POLYTECHNIC

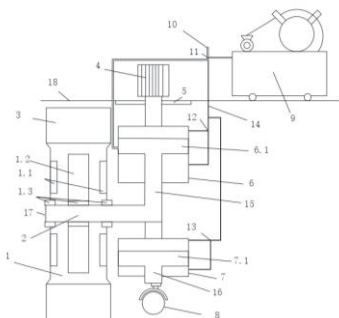
72: TONG, Lei, CHEN, Xueqing, HUANG, Jianzhu

33: CN 31: 201910249643.2 32: 2019-03-29

54: WHEEL TRANSMISSION MECHANISM AND ELECTRIC VEHICLE COMPRISING SAME

00: -

A wheel transmission mechanism, comprising a hub device (1), a rotation driving device (4), a hub stator shaft (2), a first telescopic device (6), and a second telescopic device (7), wherein the rotation driving device (4) is configured to be connected to a frame (18) of an electric vehicle; the rotation driving device (4) is connected to the first telescopic device (6); the first telescopic device (6) is connected to a longitudinally arranged telescopic rod I (15), and the telescopic rod I (15) is connected to the hub stator shaft (2); the hub device (1) is connected to the hub stator shaft (2); the second telescopic device (7) is connected below the telescopic rod I (15); and the second telescopic device (7) is connected to a longitudinally arranged telescopic rod II (16). The wheel transmission mechanism can achieve the in-place wheel steering of an electric vehicle, prevent the wear of wheel during steering, achieve flexible steering, and improve the convenience of parking. The present invention is to provide an electric vehicle comprising the above wheel transmission mechanism, which can achieve the in-place wheel steering, prevent the wear of wheel during steering, achieve flexible steering, and improve the convenience of parking.



21: 2021/00160. 22: 2021/01/11. 43: 2021/09/07
51: C08F; C08K

71: ARCHROMA IP GMBH

72: DOMINGUEZ, Cristina, CORPET, Damien
Julien, JACKSON, Andrew, ATKINSON, David
33: EP 31: 18194527.0 32: 2018-09-14

54: OPTICALLY BRIGHTENED LATEXES

00: -

The present invention relates to a method of preparing an aqueous composition by emulsion polymerization of at least one ethylenically unsaturated monomer in the presence of at least

one water-soluble diaminostilbene disulphonic optical brightener, as well as to the aqueous composition obtainable by said method, the use of said aqueous composition for optically brightening of a cellulosic substrate and the cellulosic substrate treated with the aqueous composition.

21: 2021/00165. 22: 2021/01/11. 43: 2021/08/26
51: B60R; G07C

71: PFK ELECTRONICS (PTY) LTD

72: SULLIVAN, Alan, John, SANDERSON, Daniel

33: ZA 31: 2018/04370 32: 2018-06-29

54: A TELEMATICS SYSTEM FOR A VEHICLE

00: -

A telematics system 34 for a vehicle 10 is provided. The vehicle 10 comprises a controller area network bus (CAN-bus) 30, an on-board diagnostics (OBD) system comprising a data port at a first OBD connector part 32 provided on the CAN-bus. The telematics system 34 comprises a basic security system 12 providing a first and limited set of functionalities and a telematics device 36 which is connected to a second OBD connector part 38 which in turn is connectable to the first OBD connector part 32. The telematics device 36 comprises a controller 41, a second wireless transceiver 40 which is connected to controller 41 and which, in use, is in data communication with the first wireless transceiver 24 of the security system 12. A means in the form of a GPS receiver 42 is connected to the controller for providing a second set of functionalities not included in the first limited set of functionalities. A third wireless transceiver 44 is connected to the controller 41 for enabling wireless communications with a remote backend 46.

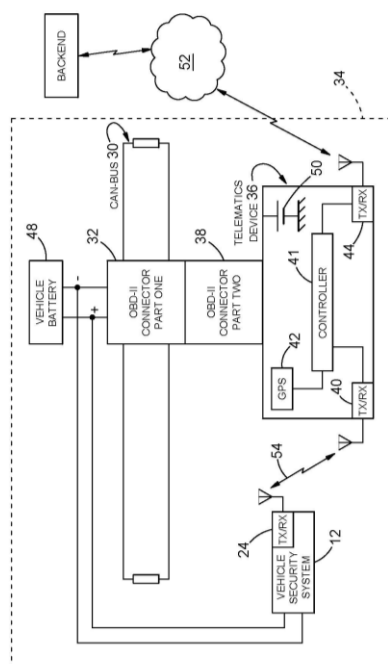
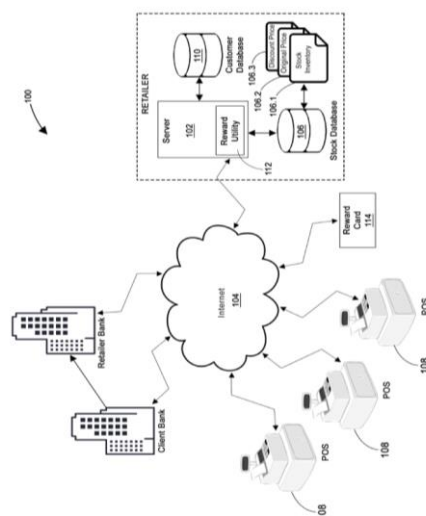


Fig. 2

21: 2021/00214. 22: 2021/01/13. 43: 2021/08/26
51: G06Q

71: BEMBE, Senzi Mbongeni

72: BEMBE, Senzi Mbongeni

33: ZA 31: 2020/00230 32: 2020-01-14

54: REWARD SYSTEMS AND METHODS

00: -

The invention provides a method of rewarding a customer for purchasing specific retail stock items, which includes the steps of identifying retail stock items of which an associated original selling price is overvalued, offering stock items that are identified as overvalued at a discounted price to customers, whereby a saving amount is determined by calculating the difference between the original selling price and the discounted selling price. The savings amount is allocated to a retailer-specific payment account which is associated with the customer purchasing the identified stock item. Furthermore, a system for implementing a stock item purchase-base reward program, which includes a reward utility hosted on a server, operable to assign a reward to a customer in response to the customer purchasing an overvalued stock item, wherein the reward is representative in a monetary value, being the savings amount.

21: 2021/00288. 22: 2021/01/15. 43: 2021/09/28

51: A61K

71: LOOBI (GUANGZHOU) HEALTH INDUSTRY CO., LTD, GUANGZHOU HWSUEN HEALTH INDUSTRY CO., LTD

72: CHEN RONGKUN

33: CN 31: 2020105823373 32: 2020-06-23

54: SILVER ION BACTERIOSTATIC HAND SANITIZER AND PREPARATION METHOD AND APPLICATION THEREOF

00: -

The present disclosure relates to the technical field of sanitary cleaning products, and more specifically to a silver ion bacteriostatic hand sanitizer and preparation method and application thereof. The silver ion bacteriostatic hand sanitizer is provided, including: 0.01-0.03 parts by weight of silver, 0.02-0.08 parts by weight of silver sulfate, 1-5 parts by weight of humectant, 10-18 parts by weight of skin conditioning agent, 0.3-0.8 parts by weight of preservative, 0.1-0.5 parts by weight of sodium dodecyl benzene sulfonate, 0.8-1.8 parts by weight of ethylhexylglycerol, 1-5 parts by weight of propylene glycol, 3-6 parts by weight of NONOXYNOL-14, 1-6 parts by weight of PEG-50 castor oil, 0.01-0.05 parts by weight of flavor and 80-120 parts by weight of deionized water. The silver ion bacteriostatic hand sanitizer has the advantages of high-efficiency bacteriostasis, sterilization and itching relief, mild performance and no stimulation, and keeps the hands moisturized.

21: 2021/00298. 22: 2021/01/15. 43: 2021/08/20
51: E02B

71: WJ CONVEYANCES (PTY) LTD

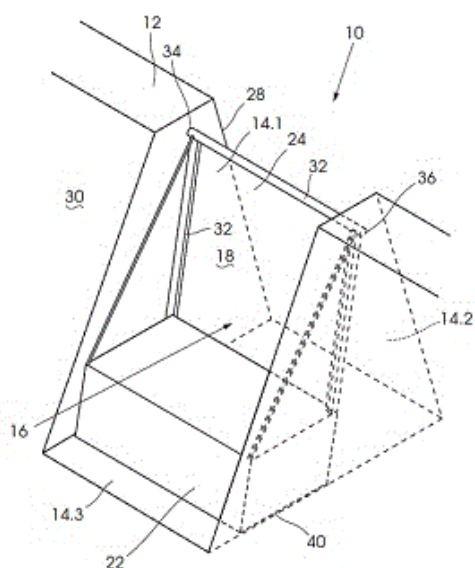
72: WERKMAN, BEREND JAN

33: ZA 31: 2020/00255 32: 2020-01-15

54: CREST GATE

00: -

A gate, and in particular, a crest gate, provided in an opening defined by wall portions of a wall of a dam, which gate opens or closes responsive to a level of a body of water retained by the dam. The gate comprises a closure member pivotably displaceable between a first position in which the closure member seals relative to the wall portions, at least partially to close the opening, and a second position, away from the wall portions, to define a gap between the closure member and the wall portions. The gate also comprises a container having a volume, the container fixed to and extending from a second side of the closure member, the container comprising a container opening in fluid flow communication with a first side of the closure member.



21: 2021/00317. 22: 2021/01/15. 43: 2021/08/26
51: B21D; B21K; B23P; F01D

71: DAVID ALAN MCBAY

72: MCBAY, David Alan

33: US 31: 62/687,385 32: 2018-06-20

54: METHOD, SYSTEM AND APPARATUS FOR EXTRACTING HEAT ENERGY FROM GEOTHERMAL BRINY FLUID

00: -

The present disclosure relates to techniques for extracting heat energy from geothermal briny fluid. A briny fluid can be extracted from a geothermal production well and delivered to a heat exchanger. The heat exchanger can receive the briny fluid and transfer heat energy from the briny fluid to a molten salt. The molten salt can be pumped to a molten salt storage tank that can serve as energy storage. The briny fluid can be returned to a geothermal source via the production well. The briny fluid can remain in a closed-loop system, apart from the molten salt, from extraction through return to the geothermal production well.

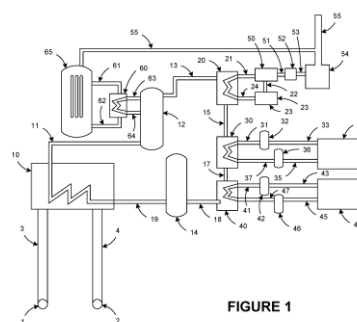


FIGURE 1

21: 2021/00318. 22: 2021/01/15. 43: 2021/08/26
51: F41H

71: BAIKRICH, Michel

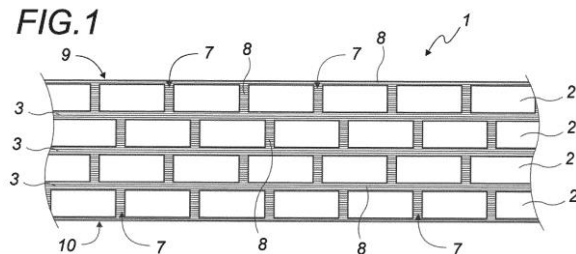
72: BAIKRICH, Michel

33: CO 31: PCT/CO2018/000018 32: 2018-08-13

54: MULTILAYER BALLISTIC PROTECTION PANEL

00: -

The multilayer ballistic protection panel (1) comprises a stack of layers of fabric (2) woven with twisted polyester yarns and layers of adhesive (3) formed from thermoplastic material (8) based on polyethylene which are interposed between the layers of fabric in an alternating manner. Cohesion of the panel assembly is ensured by the thermoplastic material which passes through the interstices (7) of the layers of fabric and connects the layers of adhesive with each other. The panel is preferably a compact stratified panel produced by high pressure hot pressing. It may be used alone or associated with steel or with a ceramic in order, in particular, to produce bullet-resistant apparel and accessories and liners for walls of civil or military vehicles or for armoured construction elements.

FIG. 1

21: 2021/00363. 22: 2021/01/18. 43: 2021/08/25

51: B32B; B65D

71: CHATURVEDI, Ashok

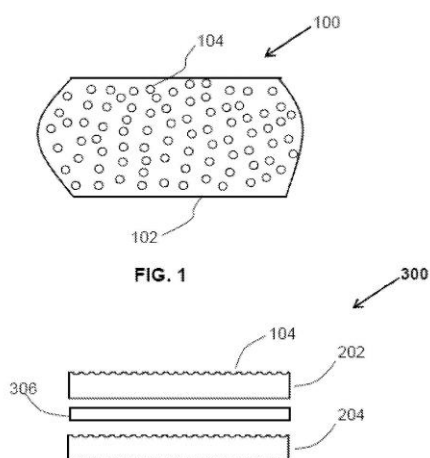
72: CHATURVEDI, Ashok

33: IN 31: 201811023315 32: 2018-06-22

54: EASY-TO-TEAR FLEXIBLE PACKAGING SUBSTRATE

00: -

The present invention describes easy-to-tear polymeric flexible packaging substrate i.e. polymeric film / laminate. The easy-to-tear flexible packaging film is obtained by providing a plurality of non-through micro-indentations on one or both surface of the film. The micro-indentations are located over the entire or partial surface area of the film. The easy-to-tear packaging laminate of the present invention is obtained by providing a plurality of non-through micro-indentations on atleast one surface of atleast one layer of the packaging laminate. The micro-indentations are located over the entire or partial surface area of the corresponding surfaces of the layers of the laminate. The micro-indentations may have a depth between 1~ 70 % of the thickness of the polymeric layer. The density of the micro-indentations on a particular surface may be from 10 / cm² to 10,000 / cm².

**FIG. 1****FIG. 3**

21: 2021/00503. 22: 2021/01/25. 43: 2021/08/19

51: G06F, G06N, G01N

71: HOHAI UNIVERSITY

72: RUI, XIAOPING, ZHANG, GUANGYUAN, LU, HAIYUE, YU, GUANGXIA, FAN, YONGLEI

33: CN 31: 202010682595.9 32: 2020-07-15

54: METHOD FOR SPATIOTEMPORAL ESTIMATION AND PREDICTION OF PM2.5 CONCENTRATION DISTRIBUTION

00: -

The present disclosure provides a method for spatiotemporal estimation and prediction of PM2.5 concentration distribution. The method for spatiotemporal estimation and prediction of PM2.5 concentration distribution includes: acquisition and correction of fine-grained aerosol optical depth (AOD); establishment of a regression model for fine-grained PM2.5; prediction of fine-grained PM2.5 concentration distribution. By comparing several regression models and machine learning models, the XGBoost model is determined as an estimation model under this framework, with the lowest root-mean-square error (RMSE) of 32.86 $\mu\text{g}/\text{m}^3$ and the highest R² of 0.71. It can be seen from 10 validations and the spatiotemporal comparison with the traditional time series prediction model of seasonal autoregressive integrated moving average (SARIMA) model that convolutional long short-term memory (ConvLSTM) exhibits a higher prediction accuracy than SARIMA (17.41 $\mu\text{g}/\text{m}^3$), with a total average prediction RMSE of 14.94 $\mu\text{g}/\text{m}^3$.

21: 2021/00543. 22: 2021/01/26. 43: 2021/08/20

51: B03B; B03D

71: PULSATING JIGS INTERNATIONAL (PTY) LTD

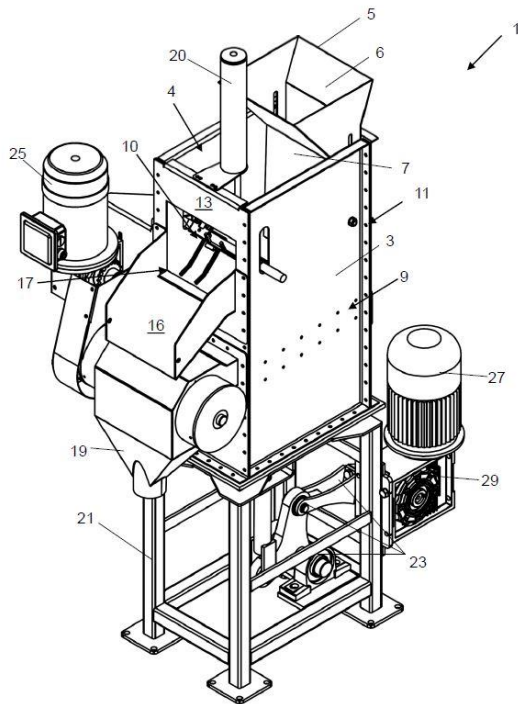
72: VERMEULEN, Johannes Jacobus

54: A SEPARATION APPARATUS

00: -

A separation apparatus is provided that includes a separation chamber having a first chamber outlet located near an upper region of the separation chamber, and a second chamber outlet located near a bottom region of the separation chamber. The separation chamber has a permeable separation chamber floor with an upper surface thereof being positioned substantially at the height of the second chamber outlet. The separation chamber is configured to be utilised with a fluid pulsing mechanism for pulsating a fluid through the separation chamber floor and through ore deposited in the separation chamber resulting in the migration of lighter ore particles toward the upper region of the separation chamber, and heavier particles toward

the bottom region of the separation chamber. The separation apparatus further includes a displacement component located within an upper region of the separation chamber and is operable to urge ore particles toward the first chamber outlet.

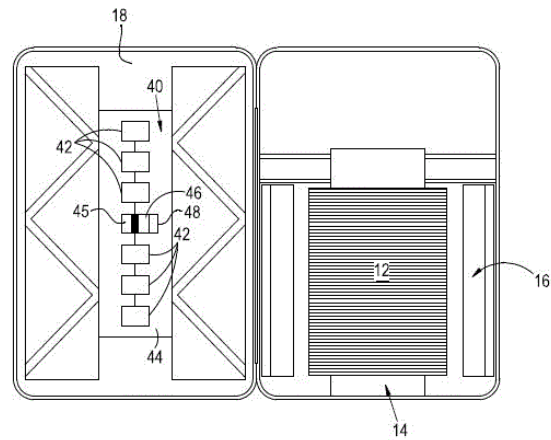


21: 2021/00617. 22: 2021/01/28. 43: 2021/08/18
51: G06Q; G07D
71: SBV SERVICES (PROPRIETARY) LIMITED
72: SINGH, Mahandranath, VAN DEN BERG, Willem Johannes
33: ZA 31: 2019/07664 32: 2020-05-20
54: ATM SELF-BALANCING SYSTEM AND METHOD

00: -

A device to count the number of individual cash notes within an ATM cassette is provided, the ATM cassette comprising a money receptacle, to accommodate the cash notes, and a lid. The device comprises a camera fitted to the inside of the lid so as to view the cash notes within the money receptacle, the camera being arranged to capture at least one image of the cash notes within the money receptacle of the ATM cassette, for subsequent processing, in real time, to determine the number of individual cash notes within the money receptacle. In an embodiment, a plurality of cameras are fitted on a PCB board to the inside of the lid, the plurality of cameras being arranged longitudinally along the

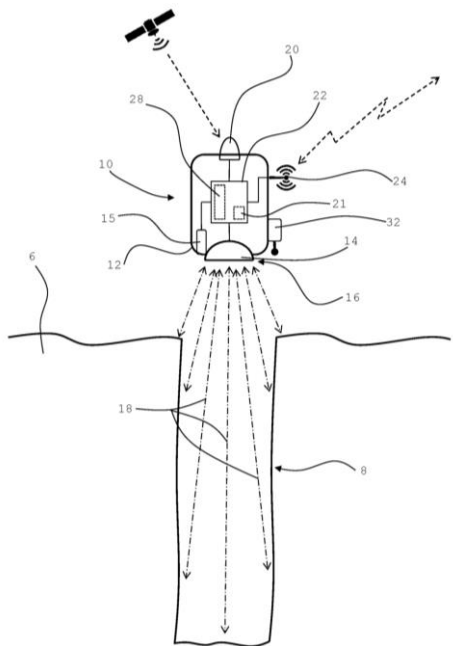
length of the lid so as to be able to view all the cash notes that may possibly be accommodated within the money receptacle of the ATM cassette.



21: 2021/00622. 22: 2021/01/28. 43: 2021/08/18
51: E21B; F42D; G01F; G01S
71: FOUR FLAGS PTY LTD
72: LOVELAND, Christopher Royce
33: AU 31: 2018902879 32: 2018-08-08
33: AU 31: 2019901731 32: 2019-05-21
54: BLAST HOLE MEASUREMENT AND LOGGING

00: -

Provided is a blast hole measurement and logging apparatus (10) which generally comprises a housing (12) configured to operatively house a solid-state LiDAR sensor array (14) configured to transmit and steer pulses of light (18) into a blast hole (8) by shifting a phase of said pulses through the array to compile volumetric data of said sensor's field-of-view. Also included is a processor (22) configured to receive the volumetric data from the LiDAR sensor (14), said volumetric data indicative of an internal volume of the blast hole (8) which is useable in calculating an explosive charge according to a blast plan, the processor (22) configured to store and/or transmit the volumetric data.



51: B63H

72: BENINI, Ernesto, GOBBO, William

54: PROPULSION DEVICE WITH OUTBOARD WATERJET FOR MARINE VEHICLES

Propulsion device with outboard waterjet for marine vehicles, which comprises a nacelle (2) which at its interior houses a propeller (3) constituted by a pump (11) actuatable for generating a flow of fluid through the nacelle (2) according to an outflow sense (VF). The nacelle (2) comprises: a front dynamic intake (12) having passage sections substantially increasing according to the aforesaid outflow sense (VF), in a manner such to cause a slowing of the local speed of the fluid and a pressure rise; a rear discharge nozzle (14) having passage sections substantially decreasing in the outflow sense (VF) of the fluid, in a manner such to cause an increase of the local speed of the fluid and a pressure decrease, creating a propulsive thrust jet at the outlet of the discharge nozzle (14).

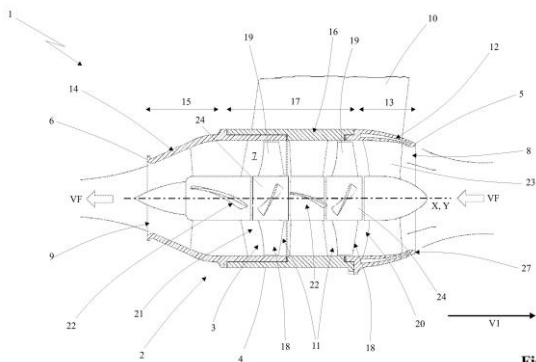


Fig. 1

51: F42D

72: MAURISSENS, Daniel August Julien Louis

54: WIRELESS DETONATING SYSTEM

A detonator system wherein communication

between detonators is achieved by using a transmitter coil in one detonator to modulate a magnetic field which is measured by means of a receiver coil in another detonator.

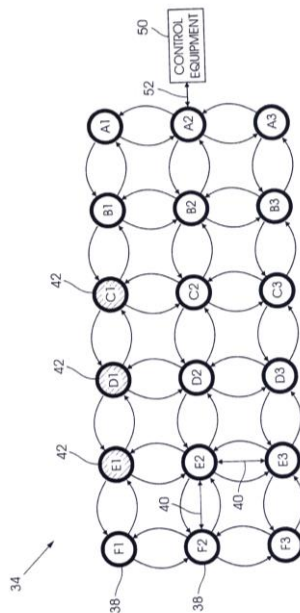


FIGURE 2

51: B32B; C21D; C23C

71: ARCELORMITTAL

72: Pascal DRILLET, Raisa GRIGORIEVA, Thierry STUREL, Cédric GEORGES, Brahim NABI, Florin DUMINICA

33: IB 31: PCT/IB2018/057719 32: 2018-10-04

54: A PRESS HARDENING METHOD

00: -

The present invention relates a press hardening method comprises the following steps: A. the provision of a carbon steel sheet coated with a barrier pre-coating comprising nickel and chromium wherein the weight ratio Ni/Cr is between 1.5 and 9, B. the cutting of the coated carbon steel sheet to obtain a blank, G. the thermal treatment of the blank in an atmosphere having an oxidizing power equal or higher than that of an atmosphere consisting of 1% by volume of oxygen and equal or smaller than that of an atmosphere consisting of 50% by volume of oxygen, such atmosphere having a dew point between -30 and +30°C, C. the transfer of the blank into a press tool, D. the hot-forming of the blank to obtain a part, E. the cooling of the part obtained at step E) in order to obtain a microstructure in steel being martensitic or martensite-bainitic or made of at least 75wt.% of equiaxed ferrite, from 5 to 20wt.% of martensite and bainite in amount less than or equal to 10wt.%.

21: 2021/00778. 22: 2021/02/04. 43: 2021/10/08
51: G06K

71: Yangzhou University

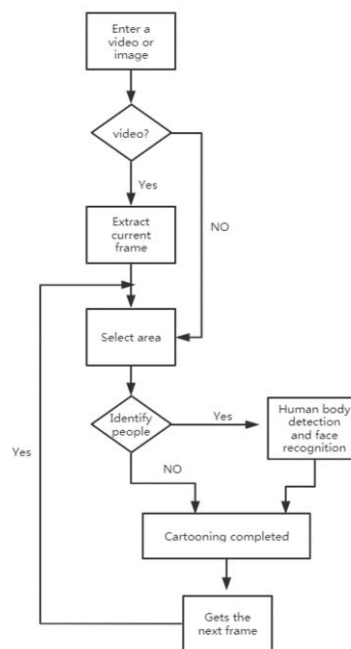
72: Zhao Yao, Qiu Jingwen, Dai Yue, Wang Yuman, Sha Zhiqing, Jin Yuyang, Su Yujie, Tang Jiahui, Dou Qixiang, ZHANG JUN, Wang Zhi, Leng Yu, Zhou Yaoyu

54: AN IMAGE AND VIDEO PROCESSING METHOD IN ONLINE TEACHING

00: -

The invention discloses an image and video processing method in online teaching. Users in the online classroom can choose portrait cartoon or overall cartoon. According to the observation of the cartoon painting behavior, users propose surface representation, structure representation and texture representation. In this method, three kinds of cartoon representation are identified from the image, and each cartoon representation is extracted by introducing the image processing module. By balancing the weight of each representation, to adjust the output of the image, and establish the mapping relationship between at least one original

image and at least one reference image. This method adds fun to the process of online learning for users, enriches visual effects and avoids users' boredom.



21: 2021/00813. 22: 2021/02/05. 43: 2021/09/08
51: A61K; C07D

71: THE BOARD OF TRUSTEES OF THE UNIVERSITY OF ILLINOIS

72: HERGENROTHER, Paul J., FAN, Timothy M., SVEC, Riley L.

33: US 31: 62/716,390 32: 2018-08-09

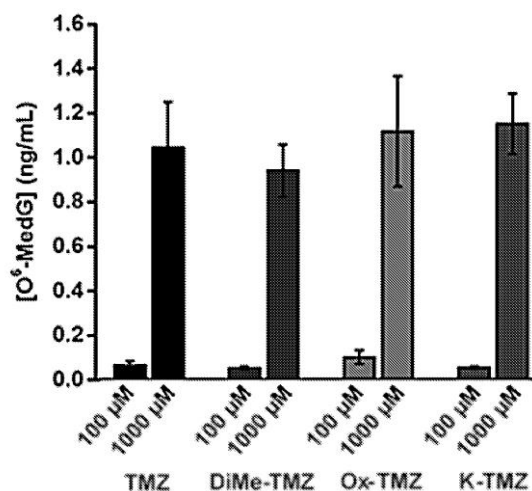
33: US 31: 62/778,750 32: 2018-12-12

33: US 31: 62/873,669 32: 2019-07-12

54: IMIDAZOTETRAZINE COMPOUNDS

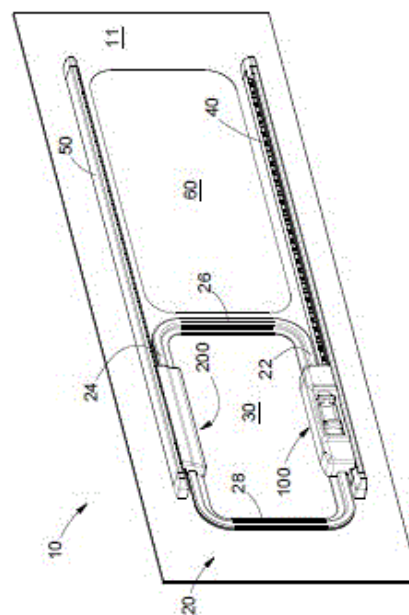
00: -

New synthetic methods to provide access to previously unexplored functionality at the C8 position of imidazotetrazines. Through synthesis and evaluation of a suite of compounds with a range of aqueous stabilities (from 0.5 to 40 hours), a predictive model for imidazotetrazine hydrolytic stability based on the Hammett constant of the C8 substituent was derived. Promising compounds were identified that possess activity against a panel of GBM cell lines, appropriate hydrolytic and metabolic stability, and brain-to-serum ratios dramatically elevated relative to TMZ, leading to lower hematological toxicity profiles and superior activity to TMZ in a mouse model of GBM.



21: 2021/00835. 22: 2021/02/08. 43: 2021/09/09
 51: B60J; E06B
 71: PANORAMIC COMPONENTS (PTY) LTD
 72: OXLEY OXLAND, Philip John, OXLEY OXLAND, Keegan John
 33: ZA 31: 2020/01188 32: 2020-02-26
54: LOCK AND GUIDE ASSEMBLY
 00: -

This invention relates to a lock and guide assembly (100) for a window assembly (10) and a system and window assembly which includes the lock and guide assembly. The lock and guide assembly (100) serves to lock and guide a window pane (30) relative to a first elongate track (50) which accommodates a first runner having a first engagement formation. The lock and guide assembly (100) includes a body having an elongate slot which extends transversely a first face between a first end and a second end. The elongate slot provides a pathway for the first engagement formation upon displacement of the body relative to the first engagement formation. An actuation mechanism which is manipulatable is provided to guide the body relative to the first engagement formation from a locked position wherein the first engagement formation locates at the first end and a released position wherein the first engagement formation locates at the second end.



21: 2021/00842. 22: 2021/02/08. 43: 2021/09/08
 51: A01G
 71: DIVISION X (PTY) LTD
 72: HURDEEN, Rikash Ramrajh, UNSER, Evan James, DELATE, Bryan
 33: ZA 31: 2019/07416 32: 2019-11-08
 33: ZA 31: 2019/07562 32: 2019-11-15
54: A PLANT GROWTH SYSTEM
 00: -

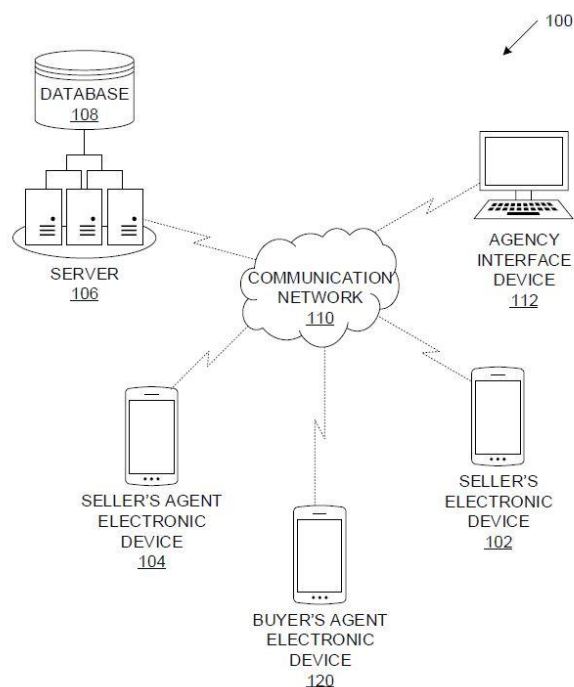
This invention relates to a plant growth system and more specifically, but not exclusively, to a plant growth system for use in remote farming. In accordance with the invention there is provided a plant growth system comprising a growing unit for growing the plant, a control unit for controlling environmental conditions in the growing unit, and an interface for interacting with the control unit. It is envisaged that the invention will provide a plant growth system which does not require a user to have extensive knowledge of a specific plant species in order to successfully grow the plant and also allows a user to control the growth of multiple plant species from a single app.

21: 2021/00873. 22: 2021/02/09. 43: 2021/09/10
 51: G06Q
 71: MYBURGH, Jansen-Pierre
 72: MYBURGH, Jansen-Pierre
 33: ZA 31: 2018/05765 32: 2018-08-29
 33: ZA 31: 2018/06372 32: 2018-09-25

54: METHOD AND SYSTEM FOR FACILITATING PROPERTY TRANSACTIONS

00: -

A method and system is provided for facilitating property transactions. A server receives and stores details of multiple listed properties, with each listed property having links to a listing agent, a seller and an access-giving party. The server provides a messaging and scheduling portal by means of which the listing agent can communicate with relevant parties involved in a property transaction. The server schedules a viewing appointment by transmitting, to an electronic device of the access-giving party, a request to view the listed property at a specified time, including prompting a rescheduling to a new specified time to suit the relevant parties and rescheduling prioritising an availability of the listing agent. Subsequent to the scheduled viewing appointment of the listed property, the server receives viewing appointment feedback messages in the messaging portal, with message access restricted to designated parties including a seller associated with the listed property.



21: 2021/00923. 22: 2021/02/10. 43: 2021/08/27
51: C07J; A61K; A61P

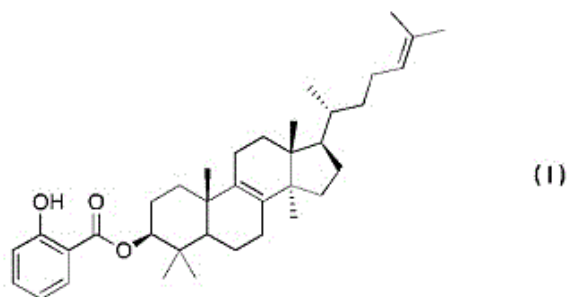
71: GUANGZHOU OCUSUN OPHTHALMIC BIOTECHNOLOGY CO., LTD.

72: LIU, YIZHI, WANG, YANDONG, LI, XIAOLIN, LUO, ZHI, HE, HAIYING, LI, JIAN, CHEN, SHUHUI
33: CN 31: 201810826425.6 32: 2018-07-25

54: CRYSTAL FORM OF LANOSTEROL PRODRUG COMPOUND AND APPLICATION THEREOF

00: -

The present invention relates to a crystal form of a compound of formula (I) and an application thereof in preparing a drug for treating an ophthalmic disease.



21: 2021/00931. 22: 2021/02/10. 43: 2021/09/08
51: A61K; C07D; A61P

71: JAGUAHR THERAPEUTICS PTE LTD

72: METE, Antonio, HITCHIN, James, R, GRAHAM, Mark, KING-UNDERWOOD, John, THORNE, Philip, Vellacott

33: SG 31: 10201807244X 32: 2018-08-24

54: TETRAHYDROPYRIDOPYRIMIDINE DERIVATIVES AS AHR MODULATORS

00: -

The present disclosure relates to compounds of formula (I), which are suitable as AhR modulators, in particular AhR inhibitors. The disclosure also relates to compositions comprising said compounds and use of said compounds or compositions in treatment, in particular in the treatment of cancer. The disclosure further relates to methods of preparing said compounds.

21: 2021/01007. 22: 2021/02/15. 43: 2021/09/08
51: C09D

71: FUCHS PETROLUB SE

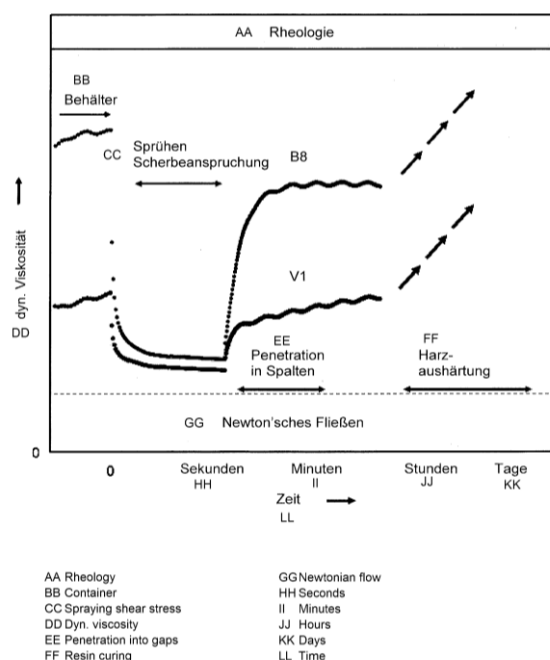
72: LOSCH, Achim

33: EP 31: 18000979.7 32: 2018-12-18

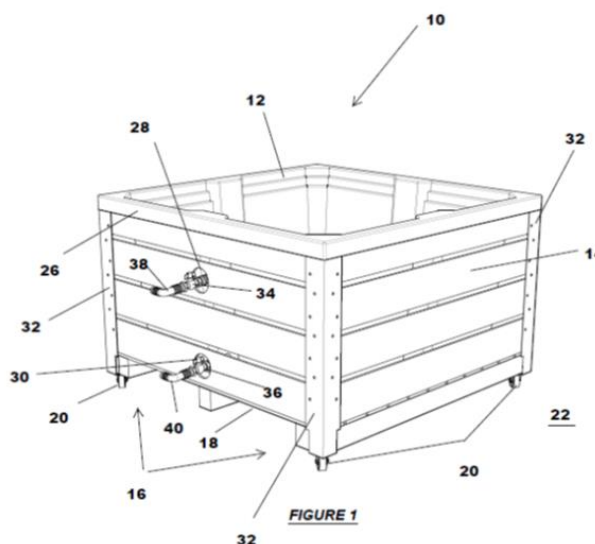
54: ANTICORROSIVE AGENT FOR CAVITY PRESERVATION, AND USE THEREOF

00: -

The present invention relates to an anticorrosive agent for cavity preservation, and to the use thereof. The anticorrosive agent has a base composition of 40 to 50 wt.% base fluid, 3 to 10 wt.% alkyd resin, 10 to 20 wt.% sulfonate and/or salicylate component, 15 to 25 wt.-% filler, 0.003 to 0.007 wt.% siccative catalyst, based in each case on the total mass of the anticorrosive agent. In addition to the base mixture, the anticorrosive agent includes 1 to 5 wt.% phyllosilicate and/or 1 to 8 wt.-% ester wax and/or paraffin wax, based in each case on the total mass of the anticorrosive agent, for adjusting the rheological properties of the anticorrosive agent. The anticorrosive agent, however, does not include any aminic corrosion protection or binder components, or any anti-skinning agent.



receive the bin 12 complementally therein, a support formation 16 arranged on a base portion 18 of the crate 14 which is configured to reinforce the base portion 18 of the crate 14, and a displacement means, in the form of wheels 20, for displacing the crate 14 relative a support surface 22.



21: 2021/01067. 22: 2021/02/16. 43: 2021/09/10
51: A01N
71: COMPAGNIE VRANKEN, BIOREM
ENGINEERING SA
72: LAKAYE, Frédéric, GAUME, Alain, GINDRO,
Katia, SCHNEE, Sylvain, HARDY, Wendy, NOËL,
Marc, SEMER, Maurice
33: FR 31: 1857317 32: 2018-08-03
**54: CITRATE PERHYDRATES AND USES
THEREOF**

00: -
The invention relates to citrate perhydrates and to the uses of citrate perhydrates, in particular as biocides, in particular pesticides, more particularly phytopharmaceuticals.

21: 2021/01040. 22: 2021/02/16. 43: 2021/09/09
51: E04H
71: GOLDER, Daniel Derek
72: GOLDER, Daniel Derek
54: PORTABLE WATER RESERVOIR
00: -

A portable water reservoir which includes a container, in the form of a bin 12, for containing water (not shown) therein, a housing, in the form of a crate 14, which is sized, shaped and configured to

21: 2021/01084. 22: 2021/02/17. 43: 2021/09/09
51: C12N; C12P
71: AECI LIMITED
72: BANNERMAN, Natasha, DLALISA, Nolusizo
Khaliphile, ETTY, Lee Anne
33: ZA 31: 2018/05469 32: 2018-08-16

54: RHODOCOCCLUS RHODOCHROUS STRAIN AND USE THEREOF IN THE PRODUCTION OF ACRYLIC ACID

00: -

A strain of Rhodococcus rhodochrous in which a gene coding at least part of a nitrile hydratase enzyme or any gene coding a protein involved in the transcription, translation or formation of at least part of the nitrile hydratase enzyme has been deactivated or rendered ineffective or a strain of Rhodococcus rhodochrous cultured under condition wherein the nitrile hydratase enzyme is been inhibited.

21: 2021/01135. 22: 2021/02/19. 43: 2021/09/09

51: B21F; E21F

71: LAW MINE SAFETY & CONTRACTING (PTY) LTD

72: ROBERTS, Michael, KLEYN, Riaan, WELSFORD, Alan Daniel, ST JOSEPH, Glen, DUQUENOY, Jean – Marc, VAN DER ENDE, Marcel, METCALFE, Barbara Samantha, FOURIE, Helena Maria, SWARTS, Yvonne, CALITZ, Francois, WIID, Louis August, CALITZ Dewald, WIID, Doreen

33: ZA 31: 2020/01070 32: 2020-02-20

54: NETTING MANUFACTURE

00: -

A mesh which comprises two arrays of transversely extending steel wires and, at each location at which one wire overlies another wire, a respective lug which is engaged with the wires, and wherein the lugs in successive rows of lugs are simultaneously deformed by means of a press arrangement to secure the lugs to the wires.

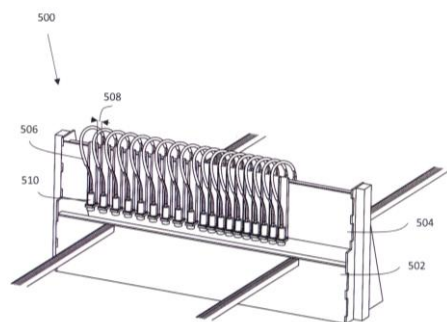


FIGURE 6

21: 2021/01161. 22: 2021/02/19. 43: 2021/09/08

51: E21B

71: SULZER (SOUTH AFRICA) HOLDINGS (PTY) LTD

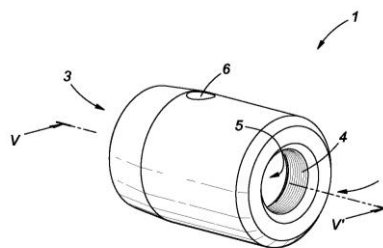
72: MARIUS IMANIEL ACKERMANN, BERND FINKE

33: ZA 31: 2020/04159 32: 2020-07-07

54: ROCK DRILL EXTENSION

00: -

This invention relates to one a rock drill extension. The rock drill extension has a body with a hollow cavity. The cavity has first and second openings, and a retainer removably securable to the body to reduce a dimension of the first opening.



21: 2021/01166. 22: 2021/02/22. 43: 2021/08/27

51: G01N

71: HITACHI HIGH-TECH CORPORATION

72: KOMATSU, TAKUTO, SAITO, YOSHIKI

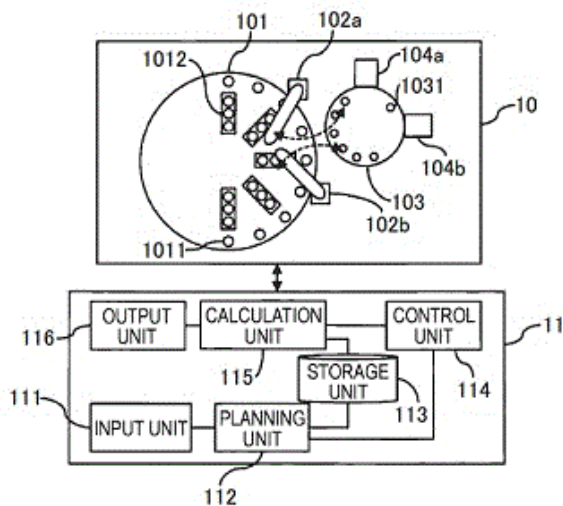
33: JP 31: 2020-038513 32: 2020-03-06

54: AUTOMATIC ANALYSIS DEVICE

00: -

In an automatic analysis device that cannot supply an additional specimen, analysis of a new specimen cannot be started until all analysis items assigned to the specimen group under analysis are completed. A specimen and reagent holding unit 101 capable of holding a specimen and a reagent in the same disk, a reaction unit 103 for mixing and reacting the specimen and the reagent, and dispensing units 102a and 102b for dispensing a specimen or a reagent, an input unit 111 for inputting information on a specimen installed in the specimen and reagent holding unit and an analysis item request for each specimen, a planning unit 112 for determining an analysis sequence, a control unit 114 for controlling a device mechanism, a calculation unit 115 for calculating the time at which the analysis of all the specimens is completed based on the analysis sequence determined by the planning unit, and an output unit 116 for notifying the calculated estimated end time of all analyses are included, and the time at which all the analysis items requested to a specimen group are completed is calculated and notified

before starting the analysis, and the estimated analysis end time is updated during analysis.



21: 2021/01188. 22: 2021/02/22. 43: 2021/09/08

51: A41D; A63B

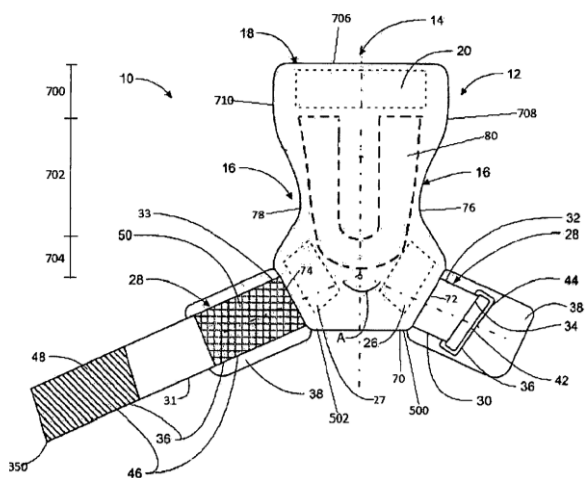
71: POWER GRIPPS USA, INC.

72: PARKER, Michael S.

54: GRIP ASSIST APPARATUS WITH INSERT

00: -

A grip assist apparatus that may be worn on either hand that includes a gripping portion that includes an insert designed to prevent lifting bars to come into contact with an area of vulnerability in the center of the palm, which is prone to injury.



21: 2021/01226. 22: 2021/02/23. 43: 2021/09/08

51: A61F

71: STRAIT ACCESS TECHNOLOGIES HOLDINGS (PTY) LTD

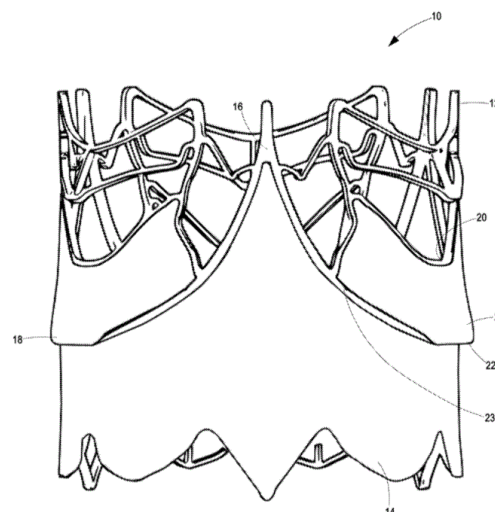
72: DE JONGH, Bruce, BEZUIDENHOUT, Deon, ZILLA, Peter, VAN HEERDEN, Carel Sebastiaan, COETZEE, Johan

33: GB 31: 1814734.8 32: 2018-09-11

54: EXPANDABLE SLEEVED STENT AND METHOD OF MAKING SUCH STENT

00: -

An expandable sleeved stent understood a stent and a sleeve. The stent included a tubular body with: first and second axial ends; a latticed peripheral wall; and at least two arms that, upon radial expansion of the tubular body from a crimped condition to an expanded condition, protrude radially from the latticed peripheral wall, the free end of each arm being radially displaceable relative to the adjacent latticed peripheral wall. The sleeve: (a) extends from the first axial end of the tubular body and circumferentially covers at least a portion of the radial outer surface of the latticed peripheral wall between the free ends of the arms and the first axial end of the tubular body; (b) bridges the spaces between the portions of the latticed peripheral wall adjacent the arms; and the free ends of the arms; and (c) is secured to either: (i) the arms; or (ii) the tubular body in the vicinity between the free ends of the arms and the second axial end of the tubular body. Upon radial expansion of the tubular body towards the expanded condition and consequent protrusion of the arms radially from the latticed peripheral wall, the portions of the sleeve that bridge the latticed peripheral wall and the arms flare radially outwards.



21: 2021/01232. 22: 2021/02/23. 43: 2021/09/08
51: C08K; C08L

71: WU, Zhenghuan

72: WU, Zhenghuan, GUO, Junxin, FAN, Qixiang, DU, Kaihui

33: CN 31: CN202010110561.2 32: 2020-02-24

54: HIGH-WATER-RESISTANT POLYAMIDE 6 COMPOSITE MATERIAL AND PREPARATION METHOD THEREOF

00: -

The present disclosure discloses a high-water-resistant polyamide 6 composite material and a preparation method thereof. The composite material is prepared from the following raw materials in parts by weight: 60-70 parts of polyamide 6, 2-8 parts of POE-g-MAH, 4-20 parts of an alkali-free short glass fiber, 2-10 parts of talcum, 0.03-0.15 parts of a silane coupling agent KH550, 0.34-0.51 parts of polyethylene wax and 0.34-0.65 parts of an antioxidant. The composite material is prepared by melt blending. Under the combined action of the talcum, alkali-free short glass fiber, maleic anhydride grafted ethylene-octene copolymer (POE-g-MAH) and the like fillers provided by the present disclosure, not only the water absorption rate of the polyamide 6 composite material can be reduced, but also the dimensional stability of the polyamide 6 composite material and the retention rate of mechanical properties of it after water absorption are improved.

21: 2021/01243. 22: 2021/02/24. 43: 2021/09/10
51: B61D

71: CO.EL.DA. SOFTWARE SRL

72: LUCISANO, Antonio, LUCISANO, Francesco, LUCISANO, Maurizio

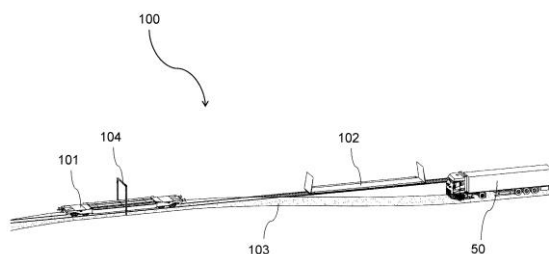
33: IT 31: 102018000008388 32: 2018-09-06

54: LOADING SYSTEM AND TRANSPORTING WHEELED VEHICLES ON RAILWAY NETWORK

00: -

A system (100) for loading and transporting on railway network wheeled vehicles comprising one articulated vehicle (50) equipped with a drive (51) and semitrailer (52), the system (100) comprising: a computerized system configured to be placed in a station of the railway network; at least one elevator wagon (101) interfaced with the railway station computerized system; at least one carrier wagon (102); and a carriageable road infrastructure (103). The elevator wagon (101) comprises: a platform

(101a); a linear structure (101d) to which the platform (101a) is inferiorly coupled; lifting structures (101e); an electronic control system (123); and auxiliary systems. The carrier wagon (102) comprises a linear structure equipped with two wheel systems (102aa) between which a load platform (102a) is comprised; load sensors; systems to assist in loading and unloading maneuvers and handling of the articulated vehicle (50) or of the single drive (51).



21: 2021/01279. 22: 2021/02/25. 43: 2021/09/08
51: A61K

71: INIBSA GINECOLOGÍA, S.A.

72: SAURA I VALLS, Marc, NEBOT TROYANO, Joaquín, ROCA I JUANES, Ramon M.

33: EP 31: 18382687.4 32: 2018-09-27

54: A PROCESS FOR THE PREPARATION OF A MODIFIED RELEASE MULTIPLE UNIT ORAL DOSAGE FORM OF DOXYLAMINE SUCCINATE AND PYRIDOXINE HYDROCHLORIDE

00: -

The present invention relates to a process for the preparation of a modified release multiple unit oral dosage form comprising a plurality of modified release pellets of doxylamine or salt thereof and a modified release pellets of pyridoxine or a salt thereof; wherein the process comprises coating the pellets of doxylamine having the inner active coating layer and the intermediate enteric coating layer; and the pellets of pyridoxine having the inner active coating layer, wherein the coating step comprising simultaneous spraying of a mixture comprising the enteric and modified release coating agents and an adding pore-forming agents in powder form.

21: 2021/01316. 22: 2021/02/26. 43: 2021/09/09
51: B63B; D07B; H01B

71: DE VILLIERS, Innes, DE VILLIERS, Paul Francois

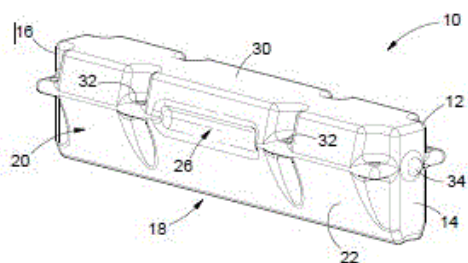
72: DE VILLIERS, Innes

33: ZA 31: 2020/01557 32: 2020-03-12

54: A FLOAT

00: -

This invention relates to a float 10 suitable for supporting an elongate article 50 in a liquid. The float 10 comprises a buoyant body 12 having opposing first and second ends 14, 16, and a seat section 18 for seating against the elongate article 50 and extending at least partially between the opposing first and second ends 14, 16. The body 12 also includes a main section 20 that extends from the seat section 18, and defines opposing first and second sides 22, 24, with the first side 22 including a first abutting formation 26, and the second side 24 including a second abutting formation 28. The angular displacement θ of the first and second abutting formations 26, 28, measured from the seat section 18, along the buoyant body 12, is less than 180 degrees



21: 2021/01329. 22: 2021/02/26. 43: 2021/09/08

51: G01N

71: YEOMANS, Allan James

72: YEOMANS, Allan James

33: AU 31: 2018903203 32: 2018-08-30

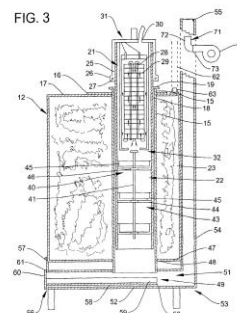
33: AU 31: 2018903804 32: 2018-10-09

54: METHOD OF VALIDATING A TEST AND APPARATUS FOR USE IN THE METHOD

00: -

A method of validating a test for estimating the organic carbon content of soil or changes in organic carbon content of soil over time in which a first sample of soil is taken from a selected location and heated using Loss On Ignition (LOI) to remove organic carbon, the method comprising the steps of taking a further sample of soil from an adjacent location, the sample having minimal organic material content. A predetermined quantity of an organic material is added to the further sample to provide a second sample which is heated using Loss On Ignition (LOI) with the change of weight of the

second sample determining whether the test of the first sample yielded a valid estimate of the organic carbon content of the first sample. Apparatus (10) for use in performing the method is also disclosed.



21: 2021/01367. 22: 2021/02/26. 43: 2021/09/10

51: B01J; C01G; C22B

71: PLATINUM GROUP CHILE SPA

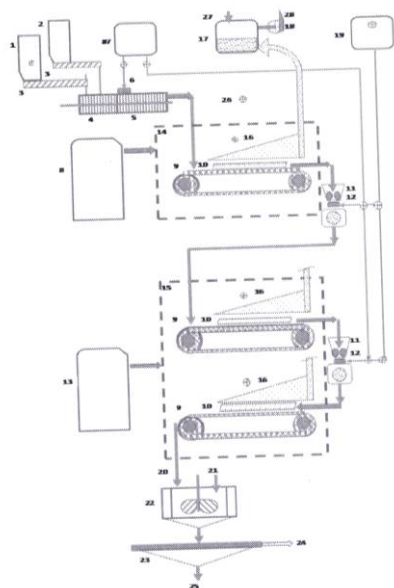
72: ANTONUCCI SALAZAR, Victor

33: CL 31: 2460-2018 32: 2018-08-28

54: SYSTEM AND METHOD FOR SOLUBILISING IN AN AQUEOUS MEDIUM ELEMENTS CONTAINED IN A SULFIDE ORE CONCENTRATE

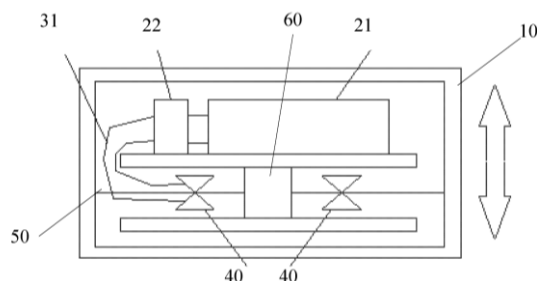
00: -

The present invention relates to a system for imparting solubility in an aqueous medium to chemical elements contained in a sulfide ore concentrate having iron, cobalt, nickel, copper, platinum-group metals and other metals considered valuable and of commercial interest. Also described is a method for imparting solubility in an aqueous medium to said elements.



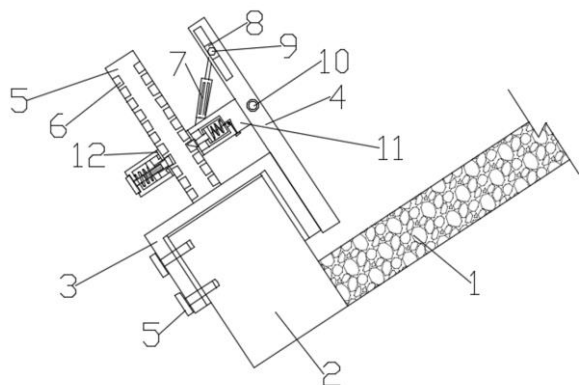
21: 2021/01598. 22: 2021/03/09. 43: 2021/10/08
51: G01P
71: SHANDONG UNIVERSITY OF SCIENCE AND TECHNOLOGY
72: LIU, Qi, CHEN, Shaojie, CHAI, Jing
33: CN 31: 201910294026.4 32: 2019-04-12
54: OPTICAL FIBER SENSOR MONITORING SYSTEM FOR ROCK FRACTURE
00: -

The present invention provides a optical fiber sensor monitoring system for rock fracture, comprising: a protecting shell, an elastic base layer, a light source, a circulator, a coupler, a fiber phase modulator/demodulator, an isolator and a photodetector. The elastic base layer is arranged in the protecting shell to divide a cavity in the protecting shell into an upper sub-cavity and a lower sub-cavity; an upper surface and a lower surface of the elastic base layer are respectively provided with sensing fiber assemblies for detecting deformation; the sensing fiber assemblies are respectively connected with the fiber phase modulator/demodulator; the light source is coupled with the circulator; the circulator is respectively coupled with the coupler and the photodetector; the coupler is respectively connected with the isolator and the fiber phase modulator/demodulator; and the isolator is coupled with the photodetector.



21: 2021/01674. 22: 2021/03/12. 43: 2021/10/13
51: E02D
71: Qingdao Agricultural University
72: GUO, YUANXIN, KONG, ZHE, LI, QIUYI
33: CN 31: 2020109643539 32: 2020-09-15
54: OVERFLOW PROTECTION DEVICE FOR VEGETATION GROWING RECYCLED ECO-CONCRETE POURING ON SLOPE
00: -

The present invention relates to the field of concrete pouring, and particularly discloses an overflow protection device for vegetation growing recycled eco-concrete pouring on slope, which comprises an installation frame and a supporting beam, wherein the supporting beam is supported by and sleeved onto a mounting screw by a supporting channel provided thereon. A positioning assembly is arranged on one side of the supporting beam, and on the other side thereof is arranged an installation assembly. After adjusting relative height of the supporting beam on the mounting screw and positioning with a positioning assembly, the heightened supporting beam is fixed by the mounting assembly. Depending on height of the frame beam and a height difference between eco-concrete pouring surface and a top surface of the frame beam, height of the anti-overflow plate relative to the mounting screws is adjusted as per dimensions; inclining degree of the anti-overflow plate is adjusted as desired and damping of concrete poured on a surface of the eco-concrete can be done with the anti-overflow plate to prevent overflow in the present invention.



21: 2021/03919. 22: 2021/06/08. 43: 2021/10/15
51: A61K
71: INSTITUTE OF SPECIAL ANIMAL AND PLANT SCIENCES OF CAAS
72: GUO, Li, WANG, Zhenjun, ZHAO, Lifeng, LUO, Guoliang, CHENG, Yuening, SUN, Hongmei, SUN, Na, Yi, Li, FENG, Erkai, ZHONG, Wei, ZHAO, Jinghui

54: NANO-PCR DETECTION KIT FOR INFECTIOUS BOVINE RHINOTRACHEITIS VIRUS AND PREPARATION METHOD THEREOF

00: -

The present invention discloses a nano-PCR detection kit for an infectious bovine rhinotracheitis (IBR) virus and a preparation method thereof, and relates to the field of detection of the IBR virus. The present invention solves the problems that the existing detection method for detecting the IBR virus is low in sensitivity, serological test is high in false positive and imported reagents are expensive. The kit includes Mighty Amp polymerase, a 2×Buffer Mix solution, sterile double distilled water, gold nanoparticle sol, a pair of specific primers and an IBR virus positive control plasmid. The pair of specific primers are respectively P1 (5'-GCTCGCCAACTTCTTTTCAGGG-3') and P2 (5'-GCGTCAAACCTCCTCCTTTCCTC-3'). A sequence of the IBR virus positive control plasmid is shown as SEQ ID NO: 2. The kit is high in sensitivity, simple and low in cost.



21: 2021/04384. 22: 2021/06/25. 43: 2021/08/20
51: B27B

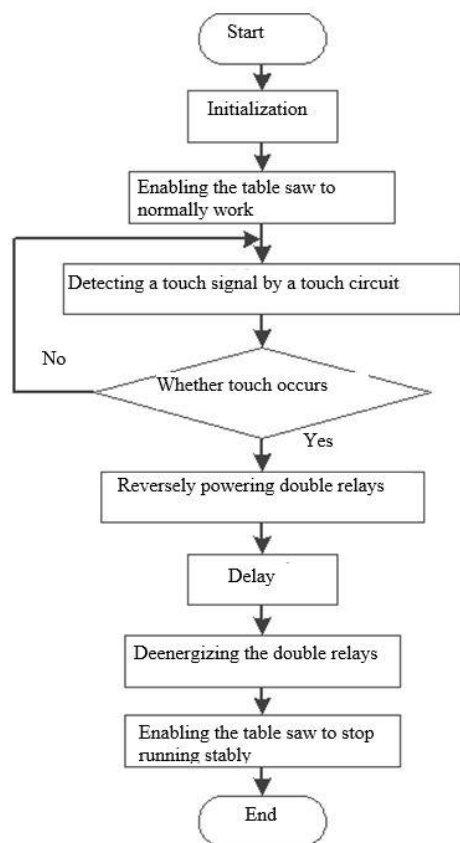
71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY

72: JIANG, Kuosheng, LI, LIANGHE, DING, Pingping

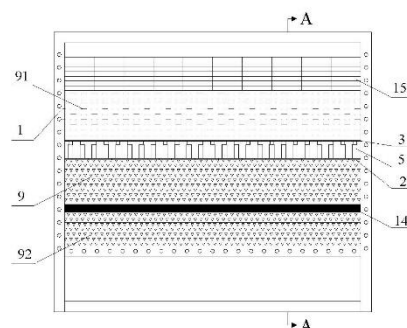
54: ELECTRIC CONTROL PROTECTION TABLE SAW BASED ON CAPACITIVE TOUCH PRINCIPLE AND CONTROL METHOD THEREOF

00: -

Disclosed is an electric control protection table saw based on a capacitive touch principle, comprising a capacitive touch circuit, an STM32 single-chip microcomputer, double relays and a transmission device, and a control method of the electric control protection table saw based on the capacitive touch principle of claim 1, comprising the following steps: step A: starting initialization; and enabling the table saw to normally work; step B: detecting a touch signal by a touch circuit; enabling the table saw to normally work if the touch signal is not detected and executing a step C when the touch signal is detected; step C: reversely supplying power for the double relays; delaying by very short time; then deenergizing the double relays; and enabling the table saw to stop running stably; step D: pressing down a reset button on the single-chip microcomputer if the table saw is restarted, i.e., entering the step A.



length direction of the simulation frame. Each confined aquifer simulation apparatus includes a base, a top beam, a light hydraulic oil cylinder, two supporting rods, a high-pressure oil pipe, a hydraulic pump, a stress sensor, a data line and a data acquisition device.



21: 2021/04388. 22: 2021/06/25. 43: 2021/10/14
51: E21B; E21C
71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY
72: ZHIHUA LI, KE YANG, XINZHU HUA, JIANSUAI JI, CHENG LIU, PENG ZHOU
54: EXPERIMENTAL APPARATUS AND METHOD OF ROCK STRATUM MOVEMENT IN MINING NEIGHBORING CONFINED AQUIFERS

00: -

The present invention belongs to the technical field of similarity simulation experimental apparatuses and methods, and particularly relates to an experimental apparatus and method of rock stratum movement in mining neighboring confined aquifers. The experimental apparatus of rock stratum movement in mining neighboring confined aquifers includes a simulation frame with simulation coal strata inside and a plurality of confined aquifer simulation apparatuses buried in simulation rock strata on an upper portion of the simulation frame. The plurality of confined aquifer simulation apparatuses are arranged successively along a

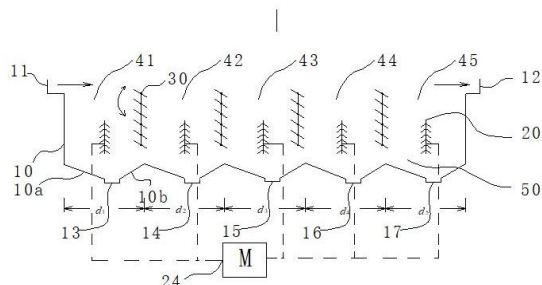
21: 2021/04588. 22: 2021/07/01. 43: 2021/10/14
51: B03B

71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY

72: HAN, Youli, WANG, Xing, ZHU, Jinbo, WANG, Chao, ZHOU, Wei, ZHU, Hongzheng, WANG, Po
54: SLIME WATER PRE-GRADING DESLIMING POOL

00: -

Disclosed is a slime water pre-grading desliming pool, comprising a pool body, wherein the pool body is of a cuboid structure, with one side of the upper part is at least provided with an inflow port, and the other side is provided with an overflow port; the pool body is internally provided with five grading chambers, including a first, second and third, fourth and fifth grading chamber; five adjustable vibration plates and four flow-guide slime-retardation plates are arranged in the pool body at intervals; the adjustable vibration plate devices are arranged in the first to fifth grading chamber respectively; every grading chambers is bordered by a flow-guide slime-retardation plate structure; the bottom of the pool body is provided with a first underflow port, a second underflow port, a third underflow port, a fourth underflow port and a fifth underflow port.



21: 2021/04689. 22: 2021/07/05. 43: 2021/10/14

51: C07F

71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY

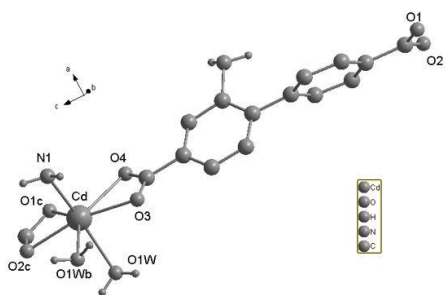
72: HU, Jinsong, XIE, Tingting, XU, Qiaoling

33: CN 31: 202110544308.2 32: 2021-05-19

54: CADMIUM METAL-ORGANIC COMPLEX WITH FLUORESCENCE, PREPARATION METHOD THEREFOR AND APPLICATION THEREOF

00: -

Disclosed is a cadmium metal-organic complex with fluorescence, a preparation method therefor and an application thereof wherein a chemical formula of the cadmium metal-organic complex is $[Cd(L) \cdot H_2O]_n$, and L is BDPC-NH22- and belongs to orthorhombic system and Pbca space group, and unit cell parameters are: $a=15.2794(18)\text{\AA}$, $b=5.6827(7)\text{\AA}$, $c=29.221(3)\text{\AA}$, $\alpha=90.00^\circ$, $\beta=90.00^\circ$, $\gamma=90.00^\circ$, and $V=2537.2(5)\text{\AA}^3$. The preparation including the steps of comprising the following steps: S1: adding 2-amino-4,4'-biphenyl acid and a cadmium salt to a mixed solution of N,N'-dimethylformamide and water, and stirring evenly for reaction; and S2: after the reaction is over, conducting cooling, filtering, washing and drying to obtain the cadmium metal-organic complex with fluorescence.



21: 2021/05051. 22: 2021/07/19. 43: 2021/10/14

51: B60T

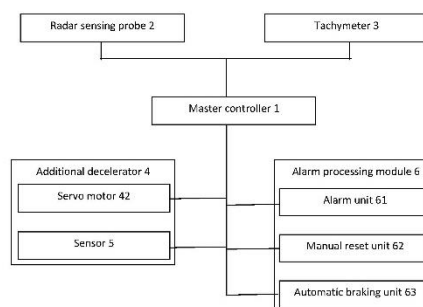
71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY

72: KAISONG WANG, KUOSHENG JIANG, QINGHUA CHEN

54: AUTOMOBILE INTELLIGENT ANTI-COLLISION DECELERATION BRAKING AND EMERGENCY BRAKING SYSTEM

00: -

The present invention discloses an automobile intelligent anti-collision deceleration braking and emergency braking system, which comprises a master controller. Radar sensing probes are mounted around an automobile body and electrically connected with the master controller; a tachymeter is used for detecting the running speed of the automobile body and electrically connected with the master controller; the quantity of additional decelerators is an even number, and the additional decelerators are symmetrically mounted on a chassis of the automobile body, and can automatically realize frictional deceleration with the ground; a control end of the additional decelerators is electrically connected with the master controller; sensors for sensing a deceleration effect are mounted on the additional decelerators, and electrically connected with the master controller; and an alarm processing module is provided with an alarm unit, a manual reset unit and an automatic braking unit.



21: 2021/05196. 22: 2021/01/14. 43: 2021/08/06

51: D06M

71: NANTONG UNIVERSITY

72: LI, DAWEI, FU, YIJUN, YANG, YUMIN, ZHANG, WEI, ZHANG, YU, LI, CHAOWEI

33: CN 31: 2020102232009 32: 2020-03-26

54: ENDURINGLY ANTIVIRAL AND ANTIBACTERIAL NON-WOVEN FABRIC, AND

PREPARATION METHOD AND APPLICATION THEREOF

00: -

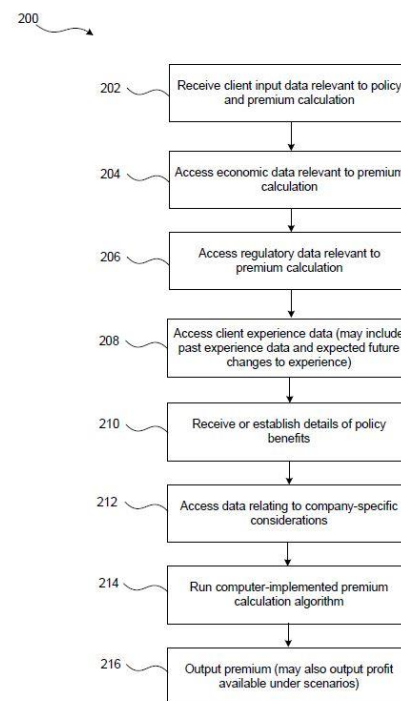
The present invention relates to the field of functional textile materials, and discloses an enduringly antiviral and antibacterial non-woven fabric, and a preparation method and an application thereof. The present invention first performs cold plasma modification on a non-woven fabric to produce an oxygen-containing functional group such as hydroxyl on the surface of the non-woven fabric, and then grafts at least one of 4-benzoylbenzoic acid, benzophenone tetracarboxylic dianhydride, and chlorogenic acid onto the surface of the modified non-woven fabric by means of an esterification reaction, so that the substance is firmly loaded on the surface of the non-woven fabric. The non-woven fabric prepared by using the preparation method of the present invention can continuously generate reactive oxygen free radicals under the action of visible light (sunlight, lamplight, etc.) and oxygen, thus having enduringly antiviral and antibacterial functions without producing drug resistance. Therefore, the non-woven fabric of the present invention can be used in large-scale production of active protective masks and protective clothing.

21: 2021/05333. 22: 2021/07/28. 43: 2021/08/18
51: G06F; G06Q
71: ONESPARK (PTY) LTD
72: KAPLAN, Josh Tana, SMITH, Gregory Warren, GILL, Francis Arthur
33: ZA 31: 2020/04814 32: 2020-08-04
54: COMPUTER-IMPLEMENTED METHOD AND SYSTEM FOR CALCULATING AN INSURANCE PREMIUM

00: -

A method and system for calculating an insurance premium for a policy of a client of an insurer are disclosed. The system receives or determines a cover amount to be paid to the client in the event of a claim being made against the policy, as well as a fixed benefit pay-out amount and a fixed target date. In the absence of a claim against the policy by or before the target date, the benefit pay-out amount is paid out either as a lump sum or a series of payments. A processor calculates a premium which covers a cost of risk associated with the cover amount, a cost of expenses associated with the policy and the provisioning of the benefit pay-out

amount. The processor is configured to take into account changes, over time, in at least one client experience indicator based on the issuing of a plurality of similar policies.



21: 2021/05475. 22: 2021/08/02. 43: 2021/09/03
51: D01F
71: BESTEE MATERIAL (TSINGTAO) CO., LTD.
72: HUANG, Xiaohua, CHI, Shan, LIU, Yanming, LIU, Yu, HUANG, Xiaoqian, ZHEN, Li, LIU, Jie
54: A PLANT-BASED FUNCTIONAL POLYESTER FILAMENT AND PREPARATION THEREOF

00: -

A plant-based functional polyester filament and a preparation thereof. The plant-based functional polyester filament contains 0.1-1.5% by weight of a plant extract. In the preparation method, a plant-based functional polyester masterbatch is prepared through steps of: heating a polyethylene terephthalate (PET) chip to a molten state; adding an antioxidant and a dispersant to the molten PET followed by stirring; adding a protective agent and the plant extract followed by mixing; adding a modifier followed by uniform mixing; and performing an extrusion granulation process to obtain the plant-based functional polyester masterbatch. The plant-based functional polyester filament provided herein

has high mechanical strength of the polyester fiber and anti-mite and antibacterial performances of the plant extract. In addition, the plant-based functional polyester filament has bacteriostatic and deodorization functions, high wear resistance, high elasticity, comfortable hand feeling, pilling resistance and stain resistance.

21: 2021/05526. 22: 2021/08/03. 43: 2021/10/14
51: D01D; D04H
71: ZHEJIANG YUYAN INDUSTRIAL DESIGN CO., LTD

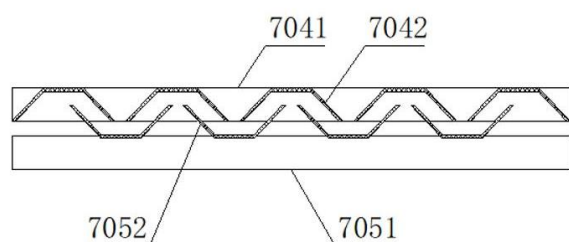
72: LIN, Zeshun, MEI, Lisha, CHEN, Yue, MEI, Juwei

33: CN 31: 202010551056.1 32: 2020-06-17

54: FIBER COLLECTOR FOR MELT-BLOWN NON-WOVEN CLOTH PRODUCTION LINE

00: -

Disclosed is an underground shifting fork based on a crank slider mechanism comprising a main switch, an M-direction branch switch, an N-direction branch switch, a support beam and a drive mechanism, wherein the main switch is fitted with a fixed I-beam at the top, and one end of the main switch fixed I-beam is rotationally fitted with a movable I-beam. One side of the support beam is provided with a slideway, one side of the support beam is also provided with two sliding chutes which are respectively located on both sides of the slideway. In the present invention, the device can change the travel direction of a transport vehicle by installing the movable I-beam on the main switch fixed I-beam and installing a sliding part on the support beam, and automatic rail change of the transport vehicle is achieved by fitting a driving device with the movable I-beam.



21: 2021/05550. 22: 2021/08/06. 43: 2021/10/07
51: B26D

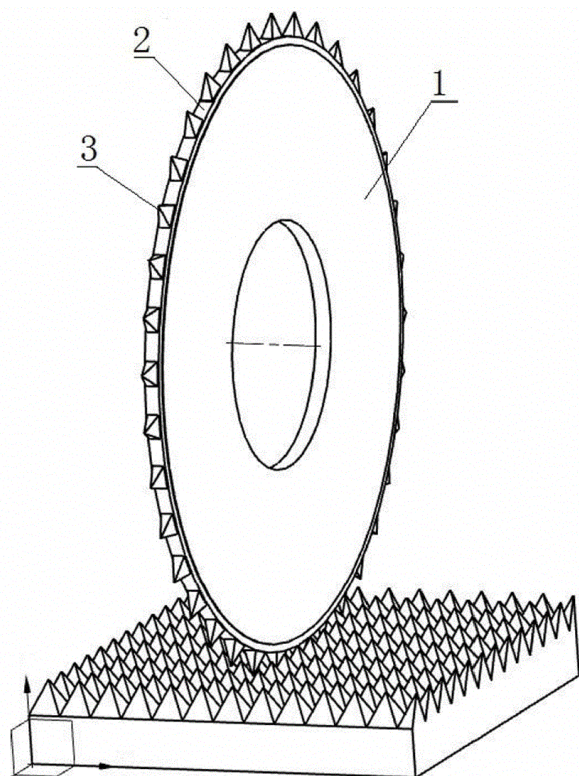
71: Shenyang University of Technology

72: Yuan Zewei, Wu Tianzheng

54: MANUFACTURING METHOD OF SUPERHARD MATERIAL SURFACE PYRAMID STRUCTURE

00: -

The invention relates to a manufacturing method of superhard material surface pyramid structure. The method is characterized by the following. A cutting tool and a workpiece are assembled on a cutting machine. The surface of the workpiece is cut at equal intervals. The cutting spacing is not greater than the thickness of the cutting tool, and the cutting depth is not greater than the blade height of diamond particles. After the first knife cutting process is completed, adjust the direction of the loading tray, so that the cutting piece is perpendicular to the cutting direction of the previous process. The cutting spacing and the cutting depth are set to be the same as those of the previous step, and then cutting with the same process is carried out. The pyramid structure on the surface of the machined material will be obtained after cutting. A tool used by the manufacturing method is composed of a scribing, a brazing layer and diamond particles. To prepare the tool of the manufacturing method, brazing, grinding, polishing, laser protrusion and other steps are required. The invention has the characteristics of cutting with blade, not being easy to wear, low manufacturing cost, simple manufacturing and fast and efficient machining of pyramid structure on the superhard material surface.



21: 2021/05559. 22: 2021/08/06. 43: 2021/10/08
51: C22C; C23C

71: SHENYANG FORTUNE PRECISION
EQUIPMENT CO., LTD

72: ZHENG, Guangwen, HOU, Tao, XIONG,
Tianying, CUI, Xinyu, SHEN, Yanfang

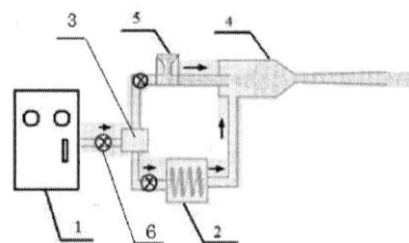
33: CN 31: 201910130903.4 32: 2019-02-22

**54: PREPARATION METHOD OF PROTECTIVE
COATING FOR IC EQUIPMENT PLASMA
ETCHING CHAMBER**

00: -

A preparation method of a protective coating for an IC equipment plasma etching chamber is disclosed, which includes: depositing a mixed powder of Al and Y₂O₃-ZrO₂ at a high speed by a cold spraying deposition technology, wherein during the cold spraying, compressed air serves as a working gas, a spraying distance is 10 to 60 mm, a spraying temperature is 200 to 600°C, a gas pressure is 1.5 to 3 MPa and a particle size of the powder is 1 to 50 μm; and forming a uniformly distributed cermet protective coating on a surface of the plasma etching chamber. First, an Al powder and a Y₂O₃-ZrO₂ powder are uniformly mixed according to proportion, and dried; then the mixed powder is sprayed onto a surface of a matrix by a cold spraying deposition

technology; and finally a cermet composite coating is obtained by controlling process parameters.



21: 2021/05613. 22: 2021/08/10. 43: 2021/10/14
51: A01N

71: QINGDAO AGRICULTURAL UNIVERSITY

72: ZHANG, GUOLIANG, SONG, JUNLIN

**54: BASE DILUENT FOR PORCINE FROZEN
SEMEN AND PREPARATION METHOD AND
APPLICATION THEREOF**

00: -

The present invention belongs to the technical field of agricultural biological breeding, and particularly relates to a diluent formula of Equus asinus frozen semen. The present invention discloses a base diluent for Equus asinus frozen semen, comprising glucose, citric acid, cholesterol, L-proline, Tris and double distilled water. The cholesterol disclosed in the base diluent is cholesterol from pork liver. A cryoprotectant of the Equus asinus frozen semen includes fresh egg yolk, penicillin, streptomycin, glycerin and Equex STM. The base diluent for Equus asinus frozen semen, a Equus asinus preservation semen diluent further includes isotonic skimmed milk, wherein a volume ratio of the amount of the isotonic skimmed milk to the base diluent for Equus asinus frozen semen is 1:1; and a 0.22 μm bacterial filter membrane is used for filtration.

21: 2021/05665. 22: 2021/08/05. 43: 2021/09/28
51: B21F; B25B; E04H; F16G

71: WIREMAN PTY LIMITED

72: LOWREY, Ian

33: AU 31: 2019900745 32: 2019-03-07

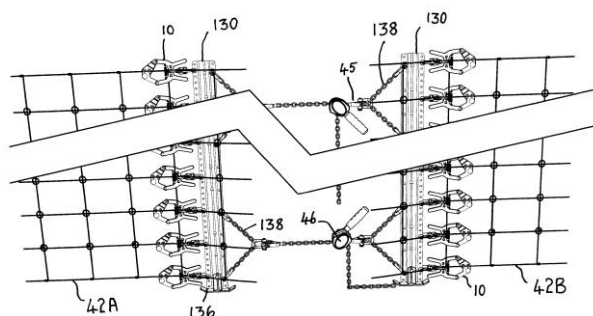
33: AU 31: 2019902537 32: 2019-07-18

**54: A TENSION BOARD FOR STRAINING WIRE
NETTING**

00: -

A tension board (30, 130) for straining net style fencing materials (42) composed of a first plurality of spaced apart substantially horizontal wires and a

second plurality of spaced apart substantially vertical wires, is disclosed. The tension board takes the form of an elongate member having a longitudinal axis and a longitudinal extent at least corresponding to the distance between the first and last of the horizontal wires, and a plurality of wire grippers (10) connected to the elongate member at spaced apart locations. Each of the wire grippers (10) is configured to releasably grasp a corresponding one of the horizontal wires. This enables quick set up prior to straining and quick release once strained and tied off.



21: 2021/05783. 22: 2021/08/13. 43: 2021/10/08
51: C08G

71: QILU UNIVERSITY OF TECHNOLOGY

72: LI, Cong, LENG, Xuedong, CAI, Xiaoxia, YAGN, Guihua, JI, Xingxiang, TIAN, Zhongjian, ZHANG, Fengshan, FANG, Guigan

54: METHOD FOR PREPARING POLYOLS AND POLYURETHANE DAMPING FOAMS THEREOF BASED ON CRUDE GLYCERIN

00: -

The present invention discloses a method for preparing bio-based polyols based on crude glycerin, and polyurethane damping foam materials prepared by utilizing the bio-based polyols. The bio-based polyols are prepared by reacting the crude glycerin and amine compounds in presence of a class of basic catalysts. By utilizing internal composition and structure characteristics of the crude glycerin and a substitution reaction with the amine compounds under mild conditions, a class of bio-based polyols that can be applied to efficient foaming can be obtained, thereby avoiding harsh conditions of high temperature and high vacuum in the traditional process of preparing the crude glycerin-based polyols. The polyols may partially or totally replace polyester or polyether polyols for synthesizing polyurethane foaming plastics. Based

on the foaming plastics prepared in the present invention, the foam is endowed with excellent damping and shock absorbing properties.

21: 2021/05824. 22: 2021/08/16. 43: 2021/10/05
51: A01C

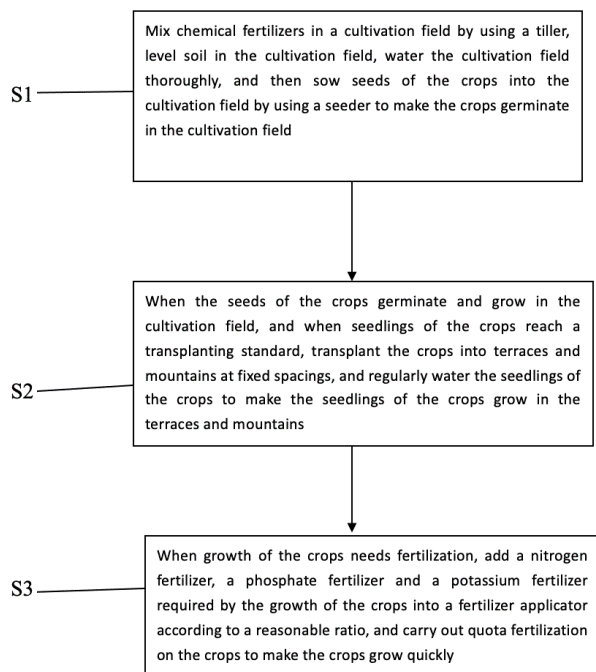
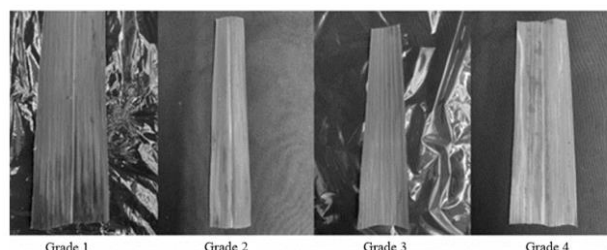
71: Zhejiang A&F University, Cultivated land and fertilizer management station of Zhejiang, Hangzhou Lin'an District Agricultural Technology Extension Center

72: QIN, Hua, YU, Yijun, WU, Qifeng, LI, Songhao, ZHANG, Junhua, MA, Junwei, CHEN, Hongjin

54: QUOTA FERTILIZATION METHOD OF CHEMICAL FERTILIZERS TO CROPS

00: -

The present invention relates to the field of quota fertilization of chemical fertilizers, and particularly to a quota fertilization method of chemical fertilizers to crops. A fertilizer applicator includes a main body, a filling mechanism, excavating mechanisms, a rotating shaft, a discharging mechanism, a connecting mechanism, a driving mechanism and an adjusting mechanism. When fertilization is needed for crops, the excavating mechanisms are demounted according to the spacing between the crops. The adjusting mechanism is rotated to adjust the spacing between one end of the excavating mechanism and the rotating shaft, so that an arc-shaped spacing between adjacent two excavating mechanisms is made approximately equal to the spacing between the crops. After one of the excavating mechanisms enters the soil, the excavating mechanism drives the driving mechanism to rotate at this time, the driving mechanism drives a bottom end of the excavating mechanism to prop open in the soil, and the excavated trenches are located on one side of the crops. At the same time, the rotation of the driving mechanism drives the discharging mechanism to rotate, so that the chemical fertilizers inside the discharging mechanism enter the inside of the trenches. The volume of the chemical fertilizers added to the inside of the trench each time is equal to the volume of the inside of the discharging mechanism, so that a fixed amount of fertilizers is added to the inside of the trench.



21: 2021/05825. 22: 2021/08/16. 43: 2021/10/05
 51: A01H; C12Q
 71: Sugarcane Research Institute of Yunnan Academy of Agricultural Sciences
 72: KONG, Chunyan, LU, Xin, MAO, Jun, LIU, Xinlong, LIN, Xiuqin, TIAN, Chunyan, LI, Chunjia, XU, Chaohua, LI, Xujuan, LIU, Hongbo
 33: CN 31: 202110696089.X 32: 2021-06-18
54: METHOD FOR IDENTIFYING RESISTANCE OF SUGARCANE TO BACTERIAL DISEASES
 00: -

The present disclosure relates to the field of detection of plant resistance, and provides a method for identifying resistance of sugarcane to bacterial diseases, including: inoculating a pathogenic bacterial solution of a sugarcane bacterial disease into isolated sugarcane leaves, and cultivating the inoculated sugarcane leaves and identifying the resistance of inoculated sugarcane leaves, and determining the resistance of sugarcane to the bacteria and a disease grade based on a length of striped spots on the cultivated sugarcane leaves; and a disease grade and a resistance level are determined according to pre-defined criteria. The method of the present disclosure has the advantages of simple operation, being without restriction by seasons and external environments, stable inoculation and identification, high efficiency, and short cycle.

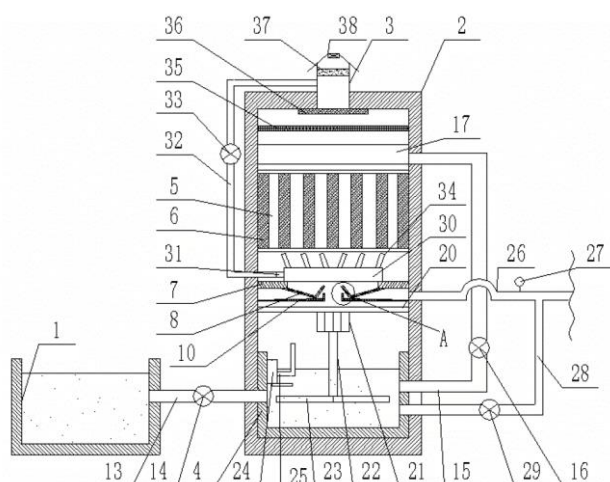
21: 2021/05826. 22: 2021/08/16. 43: 2021/10/05
 51: C02F

71: Yancheng Institute Of Technology
 72: Zhen Shucong, Dong Xiaohui, Su Ying, Pan Mei, Xu Guizhong

54: NOVEL EFFICIENT WATER TREATMENT DEVICE

00: -

The present invention discloses a novel efficient water treatment device which comprises a wastewater tank and a solid-solution separator, wherein a body is in communication between the wastewater tank and the solid-solution separator; a first reaction region and a second reaction region are sequentially arranged in the body from bottom to top; the first reaction region communicates with the wastewater tank; a gas supply mechanism and a water overflow mechanism are sequentially arranged between the first reaction region and the second reaction region from top to bottom; the water overflow mechanism communicates with the solid-solution separator; the top end of the body communicates with a gas exhaust barrel; the gas exhaust barrel separately communicates with the gas supply mechanism and the outside; the first reaction region comprises an anoxic reaction tank; a water inlet end of the anoxic reaction tank communicates with the wastewater tank; a water outlet end of the anoxic reaction tank communicates with a spray assembly; the second reaction region comprises an aerobic reactor; and a bio-filler is hung in the aerobic reactor. The novel efficient water treatment device can efficiently treat wastewater, can guarantee treatment quality, can treat waste gas generated in a wastewater treatment process, realizes combined treatment of waste gas and wastewater, and is environment-friendly throughout the whole process.



21: 2021/05827. 22: 2021/08/16. 43: 2021/10/05
51: G06F; G06K

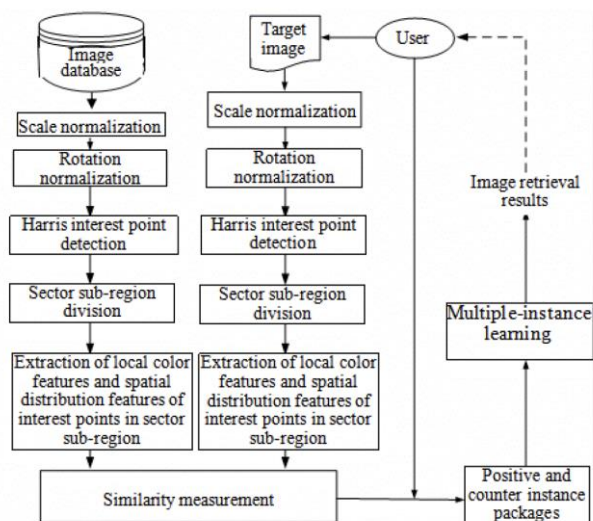
71: Xidian University

72: Meng Fanjie, Feng Haonan, Li Runxin, Cui Xiaoxuan, Ma Qing

54: IMAGE RETRIEVAL METHOD BASED ON MULTIPLE-INSTANCE LEARNING

00: -

The invention discloses an image retrieval method based on multiple-instance learning, which specifically comprises the following steps. Firstly, perform scale normalization and rotation normalization on an image, and detect interest points. Then, the normalized image is divided into a series of sector sub-regions with unequal areas according to the distribution of interest points, and the local color and spatial distribution features of interest points in each sub-region are extracted, and feature vectors are generated for similarity measurement and ranking. Then, the image is regarded as a multiple-instance package, and the target image features are obtained by using a multiple-instance learning algorithm. Finally, the similarity is recalculated and the retrieval results are output. The method not only improves the effectiveness of image feature description, but also reduces the ambiguity in the process of image retrieval, thereby realizing more accurate retrieval of Internet images and being used for searching image information in the Internet.



21: 2021/05830. 22: 2021/08/16. 43: 2021/10/08
51: G16H

71: SHANDONG PROVINCIAL HOSPITAL
AFFILIATED TO SHANDONG FIRST MEDICAL
UNIVERSITY

72: ZHAI, Hong, YANG, Caixia, LEI, Yuxin, CAO,
Feng, YANG, Jun, HE, Huihui, LIU, Ying

33: CN 31: 202110076275.3 32: 2021-01-20

54: METHOD AND SYSTEM FOR COLLECTING AND REPORTING RARE DISEASE DATA

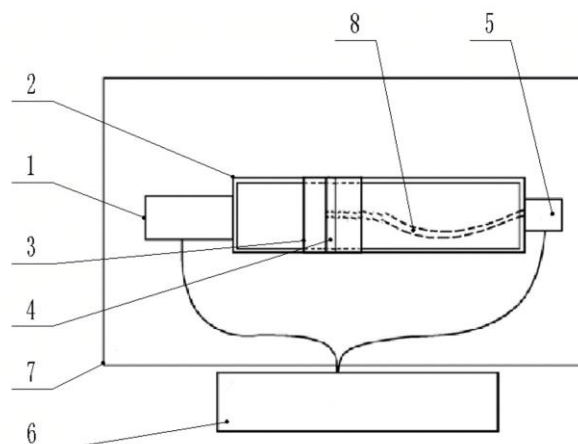
00: -

The present invention discloses a method and system for collecting and reporting rare disease data. The method includes: obtaining a diagnosis conclusion input by a doctor client in an HIS system, an electronic medical record system and/or a medical record system according to a set time interval, extracting diagnosis keywords from the diagnosis conclusion, matching the diagnosis keywords with rare disease nouns in a pre-established rare disease dictionary, and sending a rare disease electronic fill-in card to the doctor client in the case of matching success; receiving rare disease information input by the doctor client in the rare disease electronic fill-in card; performing data integrity verification on the filled electronic fill-in card; uploading the completely filled rare disease electronic fill-in card to a hospital client; performing, by the hospital client, data authenticity verification, data consistency verification and data accuracy verification on the received rare disease electronic fill-in card.

Obtaining a diagnosis conclusion input by a doctor client in an HIS system, an electronic medical record system and/or a medical record system according to a set time interval, extracting diagnosis keywords from the diagnosis conclusion, matching the diagnosis keywords with rare disease nouns in a pre-established rare disease dictionary, and sending a rare disease electronic fill-in card to the doctor client in the case of matching success; receiving rare disease information input by the doctor client in the rare disease electronic fill-in card; performing data integrity verification on the filled electronic fill-in card; and uploading the completely filled rare disease electronic fill-in card to a hospital client

Performing, by the hospital client, data authenticity verification, data consistency verification and data accuracy verification on the received rare disease electronic fill-in card, if the data authenticity verification, the data consistency verification and the data accuracy verification are all passed, analyzing, by the hospital client, the rare disease electronic fill-in card, and storing the analyzed data in a data center database of the hospital client, and finally, uploading, by the hospital client, the analyzed data to a provincial platform data center

Encrypting, by the provincial platform data center, the analyzed data, and uploading the analyzed data to a national platform data center



21: 2021/05839. 22: 2021/08/16. 43: 2021/10/08

51: G01N

71: Guangdong Ocean University

72: Xiong Zhengye, Ye Rongchun, Chen Qingxiang

33: CN 31: 202010154150.3 32: 2020-03-07

54: A METHOD AND EQUIPMENT FOR MEASURING ABSORPTION COEFFICIENT OF LIQUID

00: -

The invention provides a method and equipment for measuring absorption coefficient of liquid. Wherein, the measuring equipment is composed of a light source unit, a sample cell unit, a detection unit, a position control unit, a signal synchronization and data acquisition unit and an instrument shell. Specifically, the sample cell unit is fixedly connected with a light source unit on the left side and a detection unit on the right side. And they are all placed in the instrument shell. The signal synchronization and data acquisition unit positioned outside the instrument shell, is electrically connected with the light source unit and the detection unit respectively. Further, the sample cell unit has a rectangular shell-like structure. The position control unit is located in the sample cell unit and is in sliding connection with it. Besides, the left side of the sample cell is provided with a first through hole and the position control unit is provided with a second and a third through hole. The invention can avoid the large measurement error caused by the reflectivity difference between the two interfaces inside the cuvette when measuring the absorbance of liquid with high transmittance.

21: 2021/05859. 22: 2021/08/16. 43: 2021/10/14

51: C12N

71: QINGDAO AGRICULTURAL UNIVERSITY

72: LI, HEGANG, ZHANG, QUANWEI, WANG, SHANPENG, JIN, CHUANZHAO

54: CRISPR/CAS9 SYSTEM WITHOUT PAM RESTRICTION AND APPLICATION THEREOF

00: -

The present invention relates to the technical field of gene knockout, and particularly relates to a CRISPR/Cas9 system without PAM restriction and application thereof. The present invention disclosed a CRISPR/xCas9NNN system or a CRISPR/ngCas9NNN system, wherein the CRISPR/xCas9NNN system comprises a Cas9 universal expression vector and pX330-xCas9NNN and the pX330-xCas9NNN is a pX330 vector containing a nucleotide sequence shown as SEQ ID No. 1. The CRISPR/ngCas9NNN system comprises a Cas9 universal expression vector and pX330-ngCas9NNN and the pX330-ngCas9NNN is a pX330 vector containing a nucleotide sequence shown as SEQ ID No. 2. The Cas9 universal expression vector is pCas9-sgRNA and the pCas9-sgRNA is a pUC57 vector containing a nucleotide sequence shown as SEQ ID No. 3.

Original sequence: 5' ggtgcagccgaaggagacgctgcagttggagagcggccgaggtcggct 3'

Mutation sequence 1: 5' ggtgcagccgaa-----gttggagagcggccgaggtcggct 3'

Mutation sequence 2: 5' ggtgcagccgaaggaga-----agagcggccgaggtcggct 3'

Mutation sequence 3: 5' ggtgcagccgaaggag-----gagcggccgaggtcggct 3'

Mutation sequence 4: 5' ggtgcagccga-----gagagcggccgaggtcggct 3'

Mutation sequence 5: 5' ggtgcagccgaaggagac-----gcggccgaggtcggct 3'

21: 2021/05861. 22: 2021/08/17. 43: 2021/10/05
51: C10L

71: Qingdao University of Technology

72: Meng Xi, Liu Chao, Gao Yanna

54: A NEW ENERGY FUEL PREPARATION PROCESS

00: -

Disclosed is a new energy fuel preparation process, comprising preparation steps as follow: 1. select raw materials and proceed proportion according to weight; 2. grind, put said proportioned raw materials into grinder and grind into powder; 3. stir, put said ground raw materials into stirred tank for stirring; 4. add additives, add additives to said stirring tank, continue to stir until the mixture is even; 5. sieving, put said evenly mixed raw materials on the sieve for sieving, and remove the unground impurities; 6. obtain the finished product, take out said selected raw materials to obtain the finished product; compared with the prior art, this invention has the advantages of being able to fully utilize multiple renewable energy sources, ensuring that new fuels can replace traditional fossil fuels, reducing energy consumption, and saving energy, reducing emissions, and being more environmentally friendly and low-carbon.

21: 2021/05862. 22: 2021/08/17. 43: 2021/10/05
51: G01N

71: Anhui Medical University

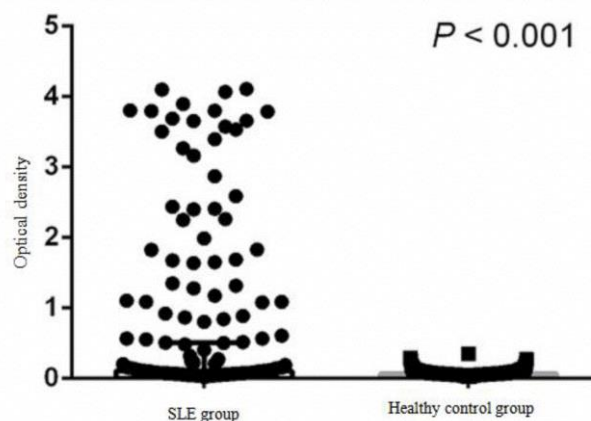
72: Ye Dongqing, Ling Huazhi, Fang Xinyu, Fan Yinguang

54: APPLICATION OF DIAGNOSTIC KIT AND MAK16 IN PREPARATION OF REAGENT FOR EARLY DIAGNOSIS OF SYSTEMIC LUPUS ERYTHEMATOSUS

00: -

The invention discloses a diagnostic kit and an application of MAK16 in preparing a reagent for early diagnosis of systemic lupus erythematosus (SLE). The diagnostic kit can be used for early diagnosis of

systemic lupus erythematosus diseases, the reagent kit comprises an enzyme-labeled plate, human protein MAK16 as antigen, coating solution, standard serum, enzyme-labeled reagent, sealing solution and sample diluent. Human protein MAK16 was coated on an enzyme-labeled plate, and the optical density of IgG antibody against human protein MAK16 in serum was measured to assist in the diagnosis of systemic lupus erythematosus. The invention provides a sensitive, safe, reliable and easy-to-operate commercial kit, which is helpful for auxiliary diagnosis and differential diagnosis of SLE by qualitatively detecting the level of IgG antibody against protein MAK16 in human serum; The specificity and sensitivity of the kit for SLE screening or preliminary diagnosis are 88.12 percent and 48.98 percent, respectively. The specificity and sensitivity for differential diagnosis of SLE are 86.50 percent and 39.50 percent, which can be used as an useful supplement to the existing diagnostic markers of SLE.



21: 2021/05863. 22: 2021/08/17. 43: 2021/10/05
51: G01L

71: Northwestern Polytechnical University

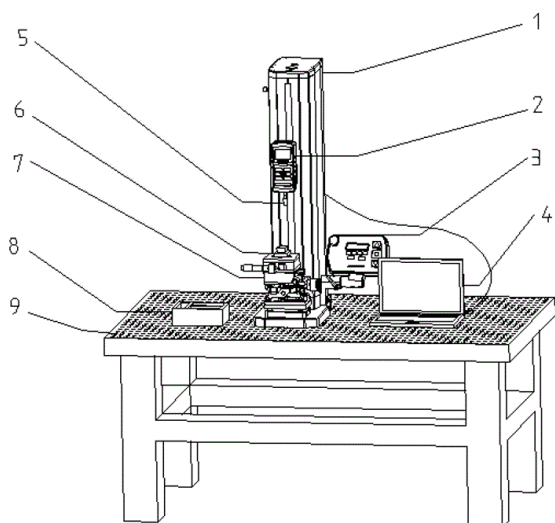
72: Kang Yonggang, Liu Jiao, Chen Shuang, Li Chunsheng, Tong Xiaojing

54: BRUSH PRESSURE TESTING DEVICE FOR TINY COMPONENTS

00: -

The present invention discloses a brush pressure testing device for tiny components. The device comprises: an electric Z1-directional measuring device, a programmable digital dynamometer, a PC, a precision force measuring hook, a flexible positioning fixture, an X-Y-Z three-way adjustable

sliding stage and a vibration isolation table. The invention is able to quickly and accurately determine the tiny pressure values of tiny component wires, is easy to operate and has a one-click automatic measurement function. Compared with manual operation and manual measurement means, the measurement time of a single wire is less than 3s, and the measurement accuracy is high, with an accuracy of about 0.01gf in the range of 10gf; the operation is safe, with overload protection and emergency stop function; the data during the measurement process can be displayed and stored in real time, with good data transmission and analysis functions, providing reliable data for the design of tiny components and can be used as a basis for practical design, with high practicality.



21: 2021/05864. 22: 2021/08/17. 43: 2021/10/05
51: B01J

71: University of Science and Technology Beijing
72: Zhang Siqi, Pu Junyuan, Li Keqing, Li Hao, Zhang Minggen, Ni Wen

54: PREPARATION METHOD AND APPLICATION OF RARE EARTH ELEMENT FOR PREPARING IMITATION GEM COLOR-CHANGE GLASS

00: -

The invention relates to a preparation method and application for preparing imitation gem color-change glass with rare earth elements as raw materials. The preparation raw materials are mainly made of the following ingredients: by weight, 30-60 parts of SiO₂, 10-30 parts of K₂CO₃, 10-40 parts of NaNO₃, 0-16 parts of Nd₂O₃, 1-10 parts of Pr₆O₁₁, 0-12 parts of

Ho₂O₃, 1-7 parts of Na₂B₄O₇•10H₂O, 0-7 parts of BaO, 0-5 parts of PbO, 0-3 parts of Al₂O₃, 0-3 parts of ZnO. The final chemical composition of the prepared imitation gem color-change glass is: in parts by weight, 30-50 parts of SiO₂, 5-20 parts of K₂O, 3-15 parts of Na₂O, 3-16 parts of Nd₂O₃, 1-10 parts of Pr₆O₁₁, 1-3 parts of B₂O₃, 0-7 parts of BaO, 0-5 parts of PbO, 0-3 parts of Al₂O₃, 0-3 parts of ZnO.

21: 2021/05868. 22: 2021/08/17. 43: 2021/10/14
51: A23L

71: HEILONGJIANG BAYI AGRICULTURAL UNIVERSITY

72: XIUJIE JIANG, CAIXIA JIANG, DONGJIE ZHANG

54: METHOD FOR PREPARING GERMINANT VIGNA ANGULARIS AIRFLOW SUPERFINE WHOLE FLOUR RICH IN G-AMINOBUTYRIC ACID THROUGH VACUUM-MSG STRESS COMBINATION

00: -

The present invention discloses a method for preparing germinant Vigna Angularis airflow superfine whole flour rich in γ-aminobutyric acid through vacuum-MSG stress combination. The method comprises the following steps: (1) washing Vigna Angularis with water, then soaking the Vigna Angularis in a sodium hypochlorite solution, then washing with water again, and conducting soaking treatment after water addition under certain conditions of temperature, time and pH; (2) draining off water in the soaked Vigna Angularis, taking the Vigna Angularis out and spreading the Vigna Angularis on a petri dish paved with gauze for germination of certain time in a vacuum environment, and transferring the Vigna Angularis to a normal incubator for continuous germination, wherein MSG is sprinkled during the process; and (3) treating the germinant Vigna Angularis successively by hot air drying, grinding, and airflow superfine grinding to obtain germinant Vigna Angularis airflow superfine whole flour rich in γ-aminobutyric acid.

21: 2021/05869. 22: 2021/08/17. 43: 2021/10/05
51: B05B; B08B; B24C

71: Qingdao University of Technology, Ningbo Sanhan Alloy Material Co., Ltd.

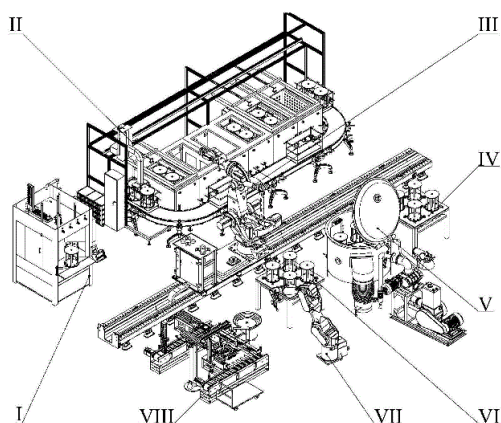
72: GAO, Teng, LI, Changhe, LUO, Liang, TANG, Lizhi, ZHANG, Yanbin, JI, Weixi, WAN, Binhui, YIN, Shuo, CAO, Huajun, LU, Bingheng, CUI, Xin, LIU, Mingzheng, XU, Jie, LUO, Huiming, XU, Haizhou, YANG, Min, HONG, Huaping, YANG, Yuying, LI, Haogang, MA, Wuxing, CHEN, Shuai

33: CN 31: 202010859250.6 32: 2020-08-24

54: MULTI-PROCEDURE INTEGRATED AUTOMATIC PRODUCTION LINE FOR HARD ALLOY BLADES UNDER ROBOT CONTROL

00: -

A multi-procedure integrated automatic production line for hard alloy blades under robot control is provided. The production line includes a rail-guided robot. A cutter passivation device and a blade cleaning and drying device are arranged on one side of the rail-guided robot. A blade-coating transfer table, a blade coating device, a blade boxing transfer table, a blade-tooling dismounting device and a blade boxing device are sequentially arranged on another side of the rail-guided robot. The blade-tooling dismounting device is arranged on one side of the blade boxing transfer table. The production line further includes squirrel-cage toolings for carrying the blades. The squirrel-cage tooling that are loaded with the blades can run among the cutter passivation device, the blade cleaning and drying device, the blade-coating transfer table and the blade boxing transfer table. The blades after being treated through the blade-tooling dismounting device are sent to the blade boxing device.



21: 2021/05870. 22: 2021/08/17. 43: 2021/10/05
51: B65G

71: Qingdao University of Technology, Ningbo Sanhan Alloy Material Co., Ltd.

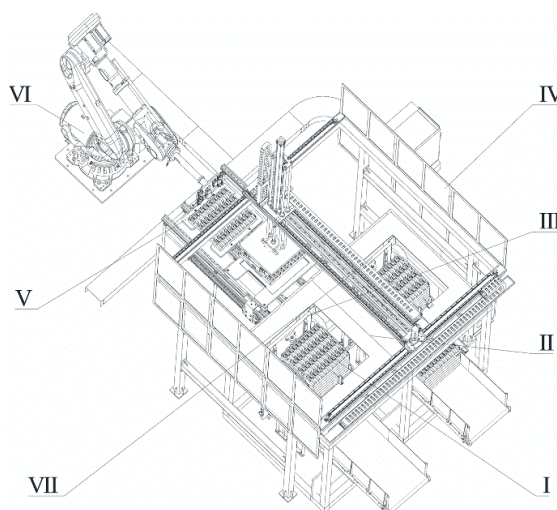
72: CUI, Xin, LI, Changhe, YANG, Yuying, LI, Haogang, LUO, Liang, JI, Weixi, WAN, Binhui, YIN, Shuo, CAO, Huajun, LU, Bingheng, TANG, Lizhi, LIU, Mingzheng, ZHANG, Yanbin, XU, Jie, LUO, Huiming, XU, Haizhou, YANG, Min, HONG, Huaping, GAO, Teng, MA, Wuxing, CHEN, Shuai

33: CN 31: 202010838634.X 32: 2020-08-19

54: AUTOMATIC TRAY LOADING SYSTEM AND USE METHOD OF THE SAME

00: -

An automatic tray loading system and a use method of the same are provided, which includes a stacked tray assembly, including at least one tray which is stacked up, where the at least one tray is provided with several locating slots; a tray lifting platform which includes a tray supporting table being connected with a elevating mechanism; a tray pick and place platform having a working region covers a tray input module, where the tray pick and place platform includes a manipulator which is connected with a multidimensional motion mechanism; and a delivery table including a tray placement plate, where each of the tray placement plate is provided with a groove which is configured to place the at least one layer of trays, and each of the tray placement plates is connected with a linear driving mechanism.



21: 2021/05871. 22: 2021/08/17. 43: 2021/10/05
51: B23B; B23Q

71: Qingdao University of Technology, Ningbo Sanhan Alloy Material Co., Ltd.

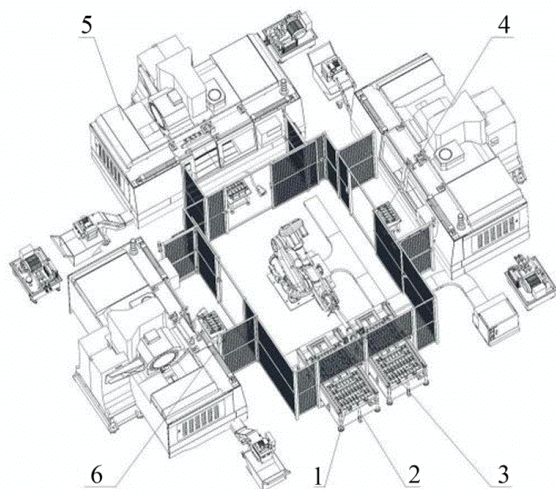
72: LIU, Mingzheng, LI, Changhe, LI, Haogang, LUO, Liang, JI, Weixi, WAN, Binhui, YIN, Shuo, CAO, Huajun, LU, Bingheng, TANG, Lizhi, CUI, Xin,

ZHANG, Yanbin, XU, Jie, LUO, Huiming, XU, Haizhou, YANG, Min, HONG, Huaping, GAO, Teng, YANG, Yuying, MA, Wuxing, CHEN, Shuai
33: CN 31: 202010840454.5 32: 2020-08-19

54: INTELLIGENT PRODUCTION LINE FOR TURNING TOOL BIT CAVITIES AND USE METHOD THEREOF

00: -

An intelligent production line for turning tool bit cavities and an application method are provided, which solve the problem that a production line in the prior art has low working efficiency. The intelligent production line has the beneficial effects of a compact arrangement structure, higher safety and improved working efficiency. The intelligent production line for turning tool bit cavities includes a robot. Material tables and at least one machining center are arranged around the robot. A transfer station used for transferring materials is arranged between the machining center and the robot. A protective fence is arranged between a position above the material tables and the robot, and between the transfer station and the robot. The robot is provided with a mechanical arm including a base plate. The base plate is provided with at least one clamping jaw and fixed with a laser detecting unit for detecting the materials.



21: 2021/05872. 22: 2021/08/17. 43: 2021/10/08
51: B29D

71: XUZHOU COLLEGE OF INDUSTRIAL TECHNOLOGY

72: XU, Yunhui, WANG, Zaixue, JIN, Ling, ZHANG, Xiaoping, ZHAO, Guiying

54: A TREAD RUBBER VULCANIZED BY A SEMI-EFFICIENT VULCANIZATION SYSTEM FOR A COMBINE-HARVESTER TIRE

00: -

The present disclosure provides a tread rubber vulcanized by a semi-efficient vulcanization system for a combine-harvester tire. Raw materials and mass parts by weight of thereof are as follows: 15 parts by weight of a natural rubber (NR); 35 parts by weight of a butadiene rubber (BR9000); 50 parts by weight of a styrene-butadiene rubber (SBR1502); 30 parts by weight of a fine reclaimed rubber; an intermediate super abrasion furnace black N220; a low-structure intermediate super abrasion furnace black N219; an anti-aging agent 4010NA; 1.0 part by weight of an anti-aging agent 4020; an anti-aging agent RD; paraffin; sulfur; an accelerator; zinc oxide; a stearic acid; an anti-scorching agent N-Cyclohexy(thio)phthalimide (CTP); an aromatic oil; acetylpirene 2-C18H12O; an antioxidant RF; and a homogenizing-dispersing agent FC. The cetylfluorene 2-C18H12O works as an antioxidant and a plasticizer.

21: 2021/05875. 22: 2021/08/17. 43: 2021/10/05
51: B23B

71: QINGDAO UNIVERSITY OF TECHNOLOGY, NINGBO SANHAN ALLOY MATERIAL CO., LTD.

72: LI, Changhe, ZHANG, Yanbin, LUO, Jian, XU, Haizhou, DIAO, Yuchen, JI, Heju, DENG, Cunzhi, LI, Renzhuang, MENG, Qingyang, ZHENG, Wei, LI, Runze, HOU, Yali

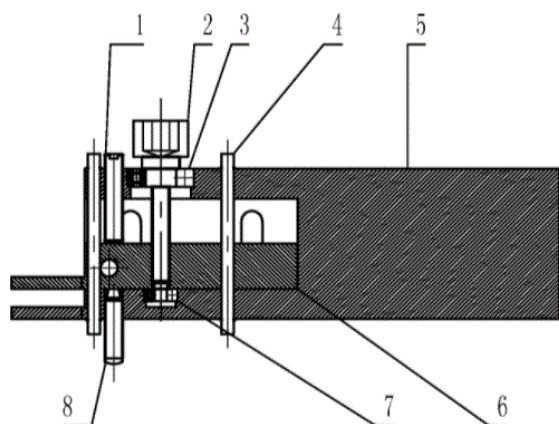
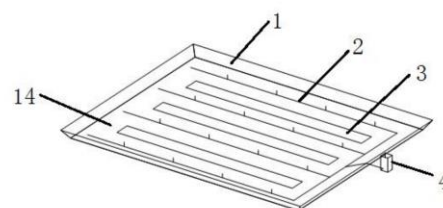
33: CN 31: 201910127169.6 32: 2019-02-20

54: CUTTER DEVICE FOR ROUGH MACHINING OF PULLEY SLOT AND METHOD

00: -

A cutter device for rough machining of a pulley slot, comprising a cutter bar (5), which is provided with a groove; a moving cutter body (6), which is arranged in the groove of the cutter bar (5), the moving cutter body (6) is in linkage connection with the cutter bar (5) through a screw shaft (2), and the screw shaft (2) cooperates with the moving cutter body (6) to realize a self-locking spiral lifting mechanism; at least two slot cutters (13), wherein one is mounted at the end of the moving cutter body (6), the other is mounted at the end of the cutter bar (5), and the screw shaft (2) rotates to adjust the distance between the slot cutters (13). Further comprised is a machining method for using the cutter device for rough

machining of the pulley slot. The method can improve the pulley machining efficiency and reduce abrasion on the cutter.



21: 2021/05916. 22: 2021/08/18. 43: 2021/09/01

51: A01K

71: Freshwater Fisheries Research Center, Chinese Academy of Fishery Sciences

72: Gangchun XU, Pao XU, Jie HE, Xuwen BING, Jian ZHU, Hongjie XU

33: CN 31: 2020108596564 32: 2020-08-24

54: PADDY FIELD-BASED CRAYFISH BREEDING SYSTEM, CRAYFISH SEEDLING BREEDING METHOD AND APPLICATION THEREOF

00: -

A paddy field-based crayfish breeding system, a crayfish seedling breeding method and an application thereof. The paddy field-based crayfish breeding system includes a plurality of thermal-insulating members provided on a water surface of a paddy field, the thermal-insulating members are configured to float and be laid on the water surface so as to perform thermal insulation on a water body, a material conveying assembly is provided between two adjacent thermal-insulating members for conveying bait and oxygen into the paddy field, and a case is provided outside the paddy field and configured to provide power for conveying the bait and oxygen; according to the embodiment of the present disclosure, the problem that in most of the existing crayfish breeding methods, crayfish seedlings are bred in ponds to waste pond resources is solved, and the method provided by the present disclosure has a broad market prospect.

21: 2021/05945. 22: 2021/08/18. 43: 2021/09/08

51: B28B

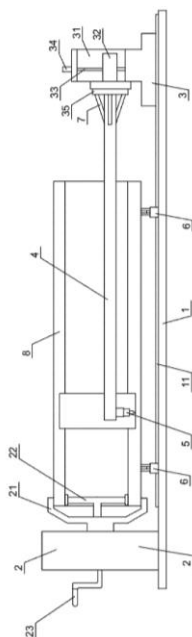
71: TIAN, Gaochao

72: TIAN, Gaochao

54: A BORING DEVICE FOR PIPE DIE

00: -

The invention relates to a boring device for pipe die, which comprises a base, a bracket and a boring mechanism; the bracket is arranged on the top of the base, the bracket is provided with a head frame and a chuck arranged on the head frame, one end of the pipe mould is fixed on the chuck; the chuck is provided with a plurality of supporting rod, the head frame is provided with a plurality of the supporting rod through the gear is connected with the adjusting rod, the adjusting rod drive the supporting rod close to each other or away from the supporting rod, the supporting rod support and fixed the pipe mold; the invention can increase the friction between the chuck and the inner wall of the pipe die, and avoid the problem that the pipe die is damaged due to the movement of the pipe die.



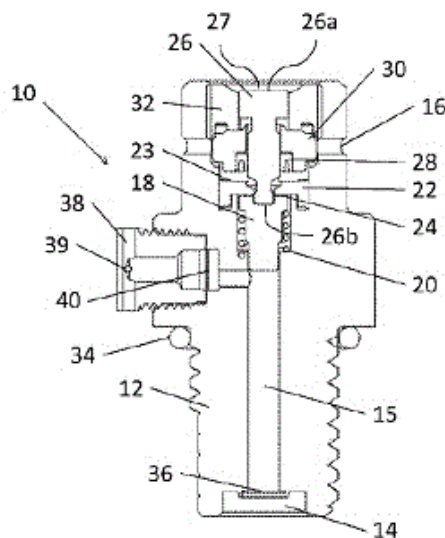
21: 2021/05971. 22: 2021/08/19. 43: 2021/08/24
51: F16K; F17C; B67D; B01F
71: SODASTREAM INDUSTRIES LTD.
72: DANIELI, GUY, COHEN, AVI, SHALEV, OREN,
FUNT, MARK, RING, ALLAN, SHKEDI, AMNON,
BRAND, DVIR, SHMUELI, EYAL, AVIGDOR, AMIT,
SHAASHUA, ERAN, HARДУFF, HAGAI, KROM,
DORON

33: US 31: 16/411,870 32: 2019-05-14

**54: CARBONATION MACHINE AND A GAS
CANISTER FOR A CARBONATION MACHINE**

00: -

A carbonation machine may include a carbonation head, a holder that is configured to hold a gas canister, the holder comprising a connector with a socket configured to enable linear insertion of a valve of the canister into the socket, the socket including a seal with at least one lateral opening to enable fluidic flow between one or more laterally oriented ports of the valve and a conduit of the holder while preventing leakage of gas from the fluidic flow, and a holding mechanism configured to hold a lateral projection from the canister after insertion of the valve into the socket such that the valve remains in the socket, and an activation mechanism configured to operate the valve to release the gas from the canister when inserted into the socket so as to enable the gas to flow via the conduit to the carbonation head.



21: 2021/05972. 22: 2021/08/19. 43: 2021/08/24
51: F17C

71: SODASTREAM INDUSTRIES LTD.

72: DANIELI, GUY, COHEN, AVI, SHALEV, OREN,
FUNT, MARK, RING, ALLAN, SHKEDI, AMNON,
BRAND, DVIR, SHMUELI, EYAL, AVIGDOR, AMIT,
SHAASHUA, ERAN, HARДУFF, HAGAI, KROM,
DORON, VAKNIN, AVRAHAM

33: IL 31: PCT/IL2020/050002 32: 2020-01-01

**54: ADAPTER FOR CANISTER FILLING SYSTEM
AND METHOD FOR FILLING A GAS CANISTER**

00: -

An adapter for a canister filling system includes a body having an opening that is shaped to enable insertion of a valve of a gas canister for holding a pressurized or liquefied gas, into an interior space of the body, leaving a sealed gap between at least a portion of a lateral aspect of the valve and an internal surface of the body facing the interior space; and at least one channel that is configured to conduct pressurized or liquified gas from a canister filling system into the sealed gap in the interior space, so as to reach one or more lateral exterior ports of the valve of the gas canister that open laterally to a longitudinal axis of a body of the gas canister, when the valve is inserted in the interior space, to facilitate filling of the gas canister with the pressurized or liquified gas through said one or more lateral exterior ports of the gas canister.

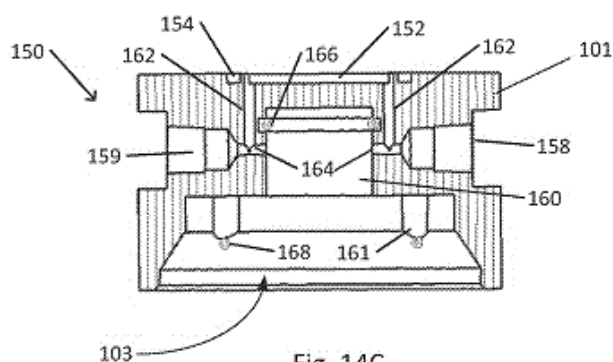


Fig. 14C

21: 2021/05987. 22: 2021/08/20. 43: 2021/10/05
51: A01G

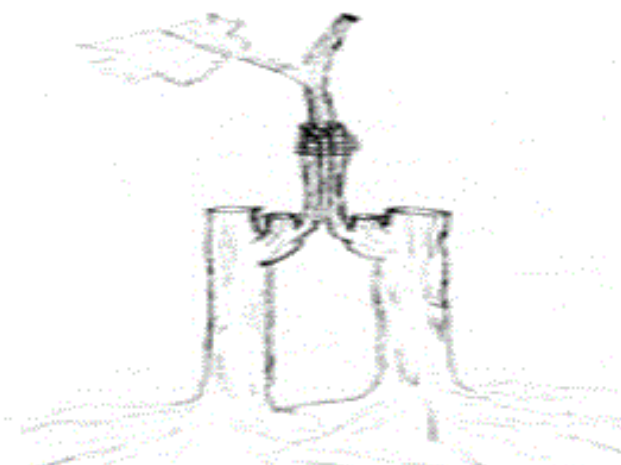
71: Northwest A&F University, Yang Ling Geng Xin Agriculture Co., Ltd.

72: MENG Jiangfei, XU Tengfei, FAN Zining, FENG Muchen, WANG Kexin, XU Yaqiang, LEI Siyu, ZHANG Peng, FANG Yulin, HUI Zhumei

54: A METHOD OF GRAFTING GRAPE DOUBLE ROOTSTOCK GREEN BRANCH

00: -

The invention discloses a grafting method of grape double rootstock green branch, which is implemented in the following steps: two rootstocks were selected, rooted and transplanted to an artificial greenhouse. The two rootstocks were 5-7cm apart, and the greenhouse environment was adjusted until the new shoot grew; new grape shoots were selected and treated as scions, the new shoots of the two rootstocks were cut to the adjacent side, and the scion incision was connected with the incision of the two rootstocks; the method of the invention that changes the "one scion and one rootstock" used in the original viticulture technology into "two rootstocks for one scion" from the cultivation technology of grape grafting itself. In appearance, it shows the appearance of two trunk merged into a trunk; in essence, compared to single rootstocks, they can be used to enhance existing resistances or to add new resistances.



21: 2021/05988. 22: 2021/08/20. 43: 2021/10/05
51: A47B

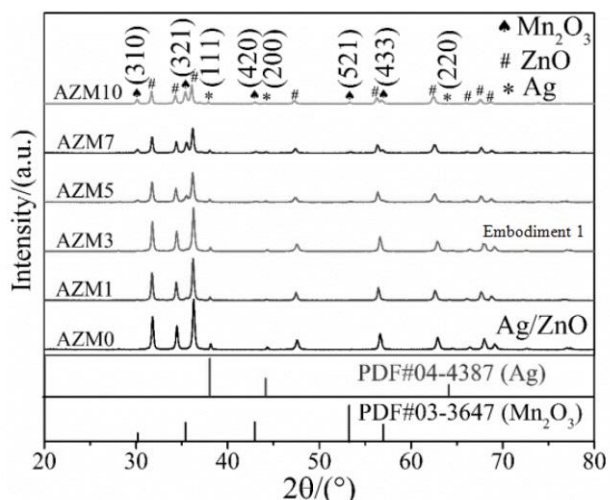
71: HENAN UNIVERSITY OF SCIENCE AND TECHNOLOGY

72: Liu Yishan, Li Yumei

54: A MULTIFUNCTIONAL BEDSIDE MOVABLE SUPPORT

00: -

The invention discloses a multifunctional bedside movable support, which comprises a base, a shelf and a rotating bracket; the shelf is arranged on the top surface of the base, and the shelf includes a connecting rod, a first tray and a second tray. The bottom end of the connecting rod is fixedly connected with the base, the outer side of the first tray is fixedly connected with the middle of the connecting rod, and the bottom surface of the second tray is fixedly connected with the top end of the connecting rod; the rotating bracket includes a supporting rod and a sliding bracket, the bottom end of the supporting rod is fixedly connected with the top surface of the second tray, and the sliding bracket and the supporting rod are slidably fitted up and down. Compared with the prior art, the present invention has the advantages including rich functions, which are convenient for users to place a computer or mobile phone beside the bed; sufficient storage space, users can put different kinds of items on the three-layer storage trays; easy to move, which can quickly carry and transfer the whole movable support.



21: 2021/05989. 22: 2021/08/20. 43: 2021/10/05
51: B82Y

71: Southwest Minzu University

72: Xu Ming, Li Jing

54: HETEROSTRUCTURE NANOCOMPOSITE AND PREPARATION METHOD AND APPLICATION THEREOF

00: -

The invention belongs to the technical field of material synthesis. The invention provides a heterostructure nanocomposite and a preparation method and application thereof. According to the invention, silver nitrate, zinc nitrate, tartaric acid, glucose, acrylamide, methylene bisacrylamide and water are adopted to prepare nanocomposite material. The nanocomposite material, manganese trioxide, glucose, tartaric acid, acrylamide, methylene bisacrylamide and water are adopted to prepare heterostructure nanocomposite. The heterostructure nanocomposite provided by the application comprises metal-semiconductor and semiconductor-semiconductor multi-heterojunction nanocomposite photocatalysts. The nanocomposite has uniform particle size distribution, excellent visible light absorption capacity and effective photogenerated carrier separation. The preparation method provided by the invention is simple. The method has the advantages of mild reaction conditions and green environmental protection. Moreover, the product is solid nano powder, thus it is conducive to preservation and further utilization.

21: 2021/05990. 22: 2021/08/20. 43: 2021/10/05
51: E02D

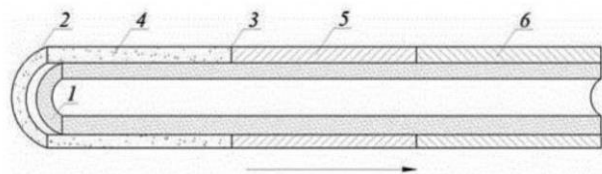
71: China University of Mining and Technology

72: Zhao Yiming, Hu Weichao, Zhang Nong

54: ANCHORING AGENT STRUCTURE SUITABLE FOR FULL-LENGTH PRESTRESSED ANCHORING OF ANCHOR ROD AND CONSTRUCTION METHOD THEREOF

00: -

The invention belongs to the technical field of anchor rod support and discloses an anchoring agent structure suitable for full-length prestressed anchoring of rod and a construction method thereof. The anchoring agent structure includes an outer tube and an inner tube arranged in the outer tube; the tube wall of the inner tube and the tube wall of the outer tube are both hollow structures made of thin film materials; the inner tube hollow structure is filled with a cement-like bonding material; the outer tube hollow structure is filled with several groups of curing agents with different curing speed; when it is in use, the faster solidification end of the anchoring agent structure is installed toward the bottom of the anchor rod installation hole. After the inner end of the anchor rod reaches the bottom of the installation hole, the anchor rod body rotates to fully mix the cement-like bonding material and the curing agents. After the structure is solidified, prestress is applied, and then the full length of the anchor rod is prestressed to be anchored. The invention has simple structure and convenient installation, and realizes the full-length pre-stressed anchoring of the anchor rod without changing the conventional anchor rod installation process.



21: 2021/05991. 22: 2021/08/20. 43: 2021/10/05

51: A61K; A61P

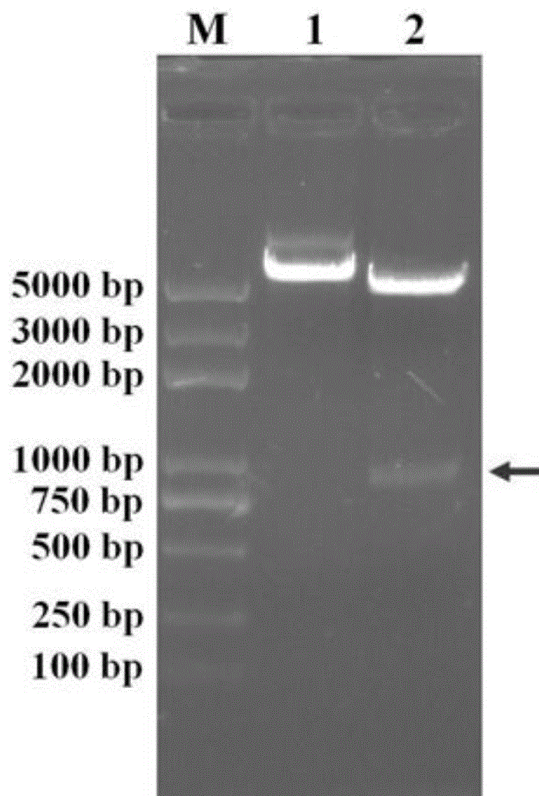
71: Northwest A&F University

72: Zhu Bin, Zhang Chen, Guo Sheng

54: DUAL-TARGETING DNA VACCINE OF SPRING VIRAEMIA OF CARP VIRUS AND A PREPARATION METHOD THEREOF

00: -

The invention discloses a dual-targeting DNA vaccine of Spring Viraemia of Carp Virus and a preparation method thereof, and belongs to the field of vaccine production. The dual-targeting DNA vaccine of Spring Viraemia of Carp Virus is nanoparticle complex formed by co-precipitation method, which takes glycoprotein of the virus of Spring Viraemia of Carp Virus as the antigen, mannosylated chitosan as the carrier, and the constant region CH3 protein of immunoglobulin M and mannose as the targeting ligands of antigen presenting cells. The DNA vaccine prepared by the invention can significantly improve the prophylactic effect of the SVCV DNA vaccine. The invention discloses a dual-targeting DNA vaccine of SVCV and a preparation method thereof, and belongs to the field of vaccine production.



21: 2021/05992. 22: 2021/08/20. 43: 2021/10/05

51: A61K

71: The First Affiliated Hospital Of University Of South China

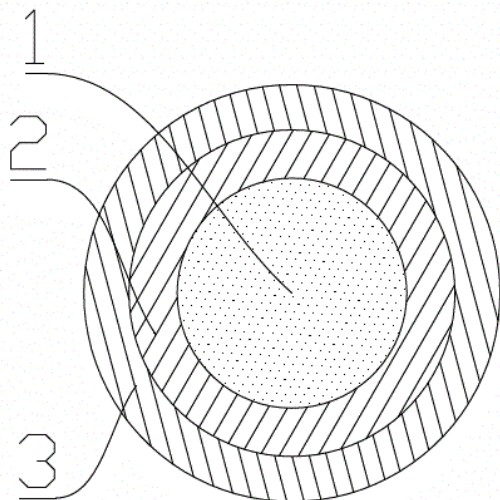
72: Yang Jun, Chu Chun, Zhao Junxiong, Liu Xing, Yang Ting

54: ADMINISTRATION CARRIER CONTAINING TGF ALPHA-SAPORIN AND PREPARATION METHOD OF ADMINISTRATION CARRIER

00: -

The invention provides a drug delivery carrier containing TGF-Saporin and a preparation method thereof. The drug delivery carrier comprises a carrier body and a drug coating, wherein the drug coating is coated on the surface of the carrier body, and the drug coating comprises at least one TGF-Saporin drug layer coated on the surface of the carrier body and at least one polymer layer coated on the outermost layer of the TGF-Saporin drug layer. According to the drug delivery carrier provided by the invention, TGF-Saporin which can selectively inhibit smooth muscle cell proliferation and promote injured blood vessel endothelialization at the same time is coated on a common drug carrier, so that the coated stent can effectively prevent the occurrence

of vascular restenosis and reduce the incidence of thrombosis and acute heart events in the stent after stent implantation.



21: 2021/05993. 22: 2021/08/20. 43: 2021/10/05
51: E21B; E21F

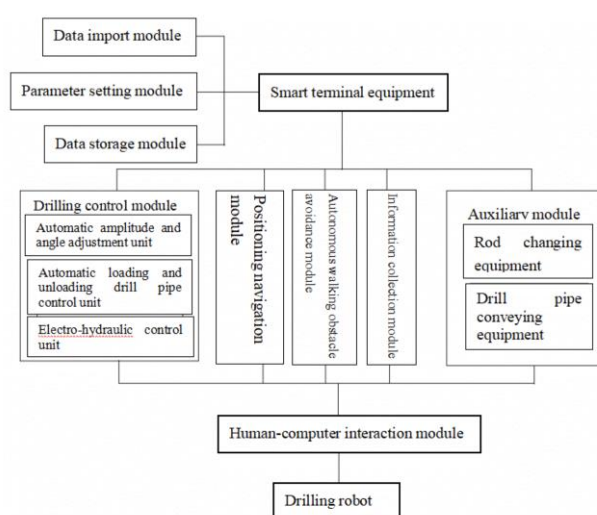
71: Anhui University Of Science & Technology, Shandong Anyi mining equipment Co., Ltd, China Coal Energy Research Institute Co., Ltd
72: Li Yaobin, Xue Sheng, Li Shoushan, Gong Xuanping, Zheng Xiaoliang, Xu Weijie, Cheng Xiaoyu, Zheng Chunshan, Jiang Bingyou, Ma Yankun, Gao Han, Jin Peng, Guo Xin, Li Tao, Yue Caihao, Jiang Tao

54: INTELLIGENT DESIGN SYSTEM AND METHOD FOR UNDERGROUND GAS PREVENTION DRILLING IN COAL MINE

00: -

The invention discloses an intelligent design system and method for underground gas prevention drilling in coal mines, which comprises a data import module, a parameter setting module, a data storage module, a drilling control module, a positioning navigation module, an autonomous walking obstacle avoidance module, a signal acquisition module and a human-computer interaction module. The data import module, the parameter setting module and the data storage module are all connected with the intelligent terminal equipment; The drilling control module, the positioning navigation module, the autonomous walking obstacle avoidance module and the signal acquisition module are all connected with the intelligent terminal equipment and the

human-computer interaction module; the human-computer interaction module is also connected with the drilling robot, which can realize automatic drilling, automatic posture adjustment, automatic anti-sticking, automatic loading and unloading of drill pipes, remote drilling, positioning and remote control operation, and it can realize the automation of the whole drilling work cycle; the invention also has the function of automatically detecting drilling parameters, automatically adjusting drilling parameters according to stratum information, remotely detecting drilling construction state and remotely controlling drilling construction robot action.



21: 2021/05996. 22: 2021/08/20. 43: 2021/10/05
51: G06Q

71: Shanghai Ocean University

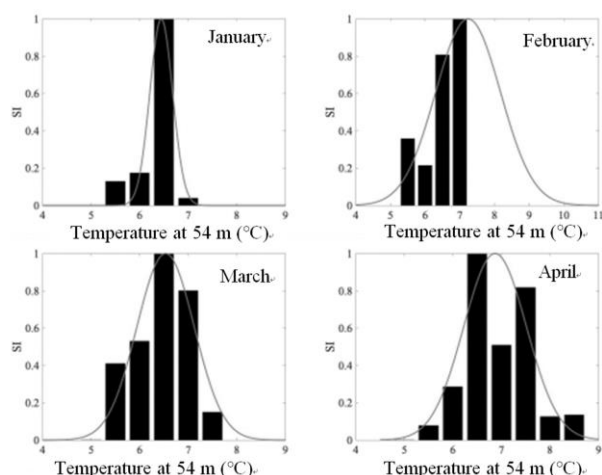
72: Wei YU, Hewei LIU, Qian YI

54: HABITAT SUITABILITY ASSESSMENT OF ARGENTINE SHORTFIN SQUID IN THE SOUTHWEST ATLANTIC OCEAN BY WEIGHT-BASED HABITAT SUITABILITY MODELING APPROACH

00: -

The invention discloses a method for evaluating and predicting the habitat suitability of Argentine shortfin squid in the Southwest Atlantic Ocean based on the vertical water temperature structure, which comprises the following steps: S1, processing and matching the fisheries data of the Argentine shortfin squid fishing vessels in the Southwest Atlantic Ocean and the environmental data of temperature at different water depths; S2, correlating the fishing effort with the water temperature at different water

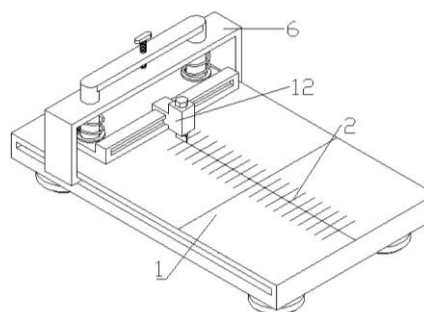
layers, and calculating a suitability index (SI); S3, dividing sea water temperature at different depths into several ranges according to a certain interval, and carrying out nonlinear fitting according to a frequency distribution method; S4, substituting the environmental data into a fitted equation, and calculating SI values corresponding to the fisheries data one by one; S5, changing weights of SI values of temperatures at different water depths, setting 10 weighting schemes, and calculating the final HSI values based on the 10 weighting schemes; S6, comparing obtained results according to the catch, the fishing effort and the catch per unit effort (CPUE) corresponding to the HSI interval, and selecting the optimal schemes for different months, wherein the optimal HSI model with the best fitting results will be selected to predict the ultimate HSI values; and S7, combining the obtained optimal HSI model with fisheries data and environmental data to conduct prediction and analysis, comparing the prediction results with the actual fishing activity and evaluating the accuracy of the model, so that the optimal HSI model can be used for evaluating and predicting the habitat suitability of Argentine shortfin squid in the Southwest Atlantic Ocean. In the invention, based on the environmental factors, ten different schemes of the weight distribution are selected in the establishment of the integrated HSI model by using the SI models, and the impacts of temperatures at different water depths on habitat evaluation is exp.



21: 2021/06001. 22: 2021/08/20. 43: 2021/10/08
51: B42B
71: CHEN, Xi
72: CHEN, Xi

33: CN 31: 202110803527.8 32: 2021-07-16
54: FINANCIAL GLUE SPREADING DEVICE
00: -

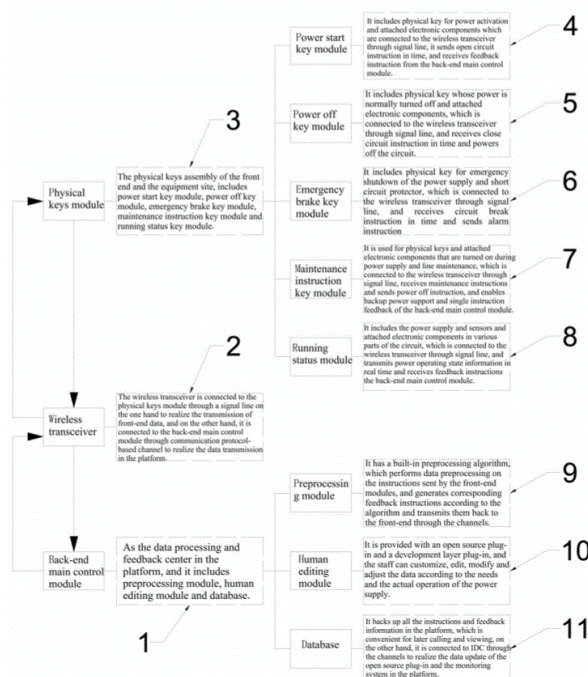
Disclosed is a financial glue spreading device, including a working platform, indication scales, support legs, anti-skid foam pads, sliding grooves, a sliding support frame, a pressing frame, an adjusting bolt, compression springs, an anti-skid silica gel pad, a sliding rail, and a spreading portion. A plurality of indication scales are fixed to a top end of the working platform. Four corners of a bottom end of the working platform are respectively fixed with one vertical support leg. A bottom end of each support leg is fixed with one horizontal anti-skid foam pad. Both front and rear ends of the working platform are respectively provided with one horizontal sliding groove. The pressing frame is elastically supported by the compression spring, and bills can be tightly clamped by the anti-skid silica gel pad, so that accidental deviation of the bills can be prevented.



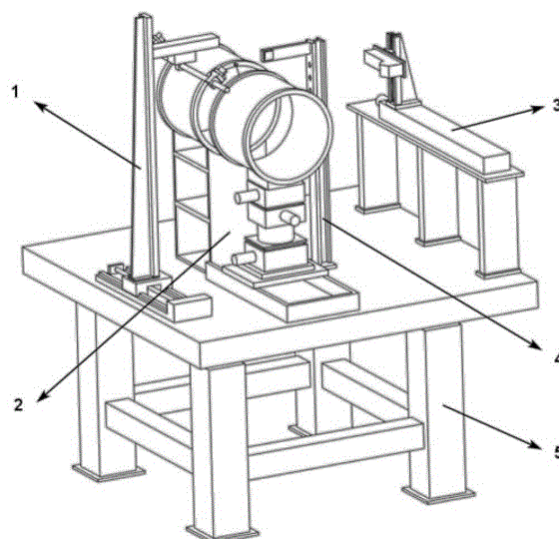
21: 2021/06043. 22: 2021/08/23. 43: 2021/10/07
51: G05B; G06F
71: Xi'an Technological University
72: Chen Guoshao
54: A TERMINAL INTELLIGENT CONTROL PLATFORM FOR COMPUTER POWER SUPPLY
00: -

The invention discloses a terminal intelligent control platform for computer power supply, which includes back-end main control module, wireless transceiver and physical keys module, and is characterized in that: the physical keys module, as the physical keys assembly of the front end and the equipment site, includes power start key module, power off key module, emergency brake key module, maintenance instruction key module and running status key module, the physical keys module is connected to

the wireless transceiver set at the front end of the field through the signal line of the respective module, compared with the prior art, the present invention has the advantages of reasonable platform architecture design, reasonable function module name, architecture design, connection mode and working mode, field circuit data acquisition through front-end sensors, which uses built-in algorithms to accurately and timely monitor and adjust the various operating states of the power supply, so it has good applicability and is easy to promote.



analysis software of aircraft final assembly and docking assembly; said platform acquires the surface shape data of the cylinder segment through the laser contour sensor; position information of the key feature points on the end face of the cylinder section is obtained by the industrial camera; six-degree-of-freedom motion control of the dynamic segments through the six-axis support attitude adjustment structure can realize the deviation measurement under the actual measured data to realize the function of verifying the assembly deviation analysis software; at the same time, this invention can also be used to provide research foundation and technical verification for the prediction of the assembly deviation of the final assembly of this type of large component in actual engineering.



21: 2021/06044. 22: 2021/08/23. 43: 2021/10/05
51: G06F; G06T
71: Northwestern Polytechnical University
72: Kang Yonggang, Ren Haodi, Chen Xiduo, Chen Mingyuan, Lai Yunfeng
33: CN 31: 202110034628.3 32: 2021-01-12
54: AN APPLICATION METHOD OF VIRTUAL SIMULATOR FOR SIX-AXIS LARGE SECTIONS' CYLINDER SEGMENT DOCKING
00: -

Disclosed is an application method of virtual simulator for six-axis large sections' cylinder segment docking, comprising photographic measurement segment, tube section support and adjustment segment, laser measurement segment, photographic calibration frame and base; it is a virtual simulation platform for verifying the deviation

21: 2021/06045. 22: 2021/08/23. 43: 2021/10/05
51: C05G
71: Guangxi Academy of Agricultural Sciences
72: Wu Jianming, Chen Rongfa, Fan Yegeng, Qiu Lihang, Zhou Huiwen, Zhou Zhongfeng, Luo Ting, Yan Haifeng, Deng Yuchi, Weng Mengling, Lu Xinggao
54: PREPARATION METHOD OF ORGANIC AND INORGANIC FOLIAR FERTILIZER FOR IMPROVING SUGARCANE YIELD AND SUGAR CONTENT
00: -

This invention provides preparation method of organic and inorganic foliar fertilizer for improving sugarcane yield and sugar content, relates to the field of foliar fertilizer. The preparation method of

that foliar fertilize comprises the follow components in parts by weight: 40-50 parts of biological fertilize, 10-20 parts of potassium dihydrogen phosphate, 10-20 parts of tea meal, 2-5 parts of calcium phosphate, 2-5 parts of magnesium sulfate, 0.5-1 part of zinc sulfate, 0.5-1 part of borax, 0.1-0.5 part of sodium nitrophenolate and 3-5 parts of gibberellin. Through the preparation form, the obtained foliar fertilizer has powder and solution. By choosing a suitable preparation scheme to meet the actual production requirements and reasonably matching various components, the anti-disease ability of sugarcane can be improved, and the yield and sugar content of sugarcane can be increased.

21: 2021/06046. 22: 2021/08/23. 43: 2021/10/07
51: A01F; A23L

71: Shanxi Agricultural University

72: Huang Liping, Zhao Qifeng, Liu Xiaoting

54: A PREPARATION METHOD BASED ON GRAPE SEED NUTRIENT TABLET

00: -

The invention discloses a Preparation method based on grape seed nutrient tablet, which consists of the following raw materials in parts by mass: 10 parts of grape seed and 2.5-3 parts of adhesive. The adhesive is consisted of donkey-hide gelatin, konjac powder and water with a mass ratio of 1:2-3:22-26. The production method of grape seed nutrition tablets comprises the following steps: cleaning grape seeds, frying grape seeds, soaking grape seeds, pressing grape seeds to tablets, preparing adhesive, mixing and drying the adhesive with the tablets. The grape seed nutrition tablet described by this invention provides a new nutrition product with health care function to consumers, it effectively solves the disposal of grape seed waste from the wine industry, recycling the waste of grape seeds with great beneficial outcome, hence having a better economic and social benefits.

21: 2021/06047. 22: 2021/08/23. 43: 2021/10/05
51: C04B

71: University of Science and Technology Beijing

72: Zhang Siqi, Zhang Minggen, Li Keqing, Li Qian, Li Hao, Pu Junyuan, Ni Wen

54: PREPARATION METHOD AND APPLICATION OF CEMENTED FILLER MATERIALS BY USING SUPERFINE TAILINGS

00: -

The invention relates to preparation method and application of cemented filler materials by using superfine tailings, wherein the cementitious material containing steel slag, blast furnace slag, desulfurization gypsum and desulfurization ash mainly comprises the following components in parts by weight: 18-75 parts of steel slag, 0-64 parts of blast furnace slag, 2.4-28 parts of desulfurization gypsum and 0-17.5 parts of desulfurization ash. The ratio of cementitious material to aggregate in the filler is 1:4-1:7, and the concentration is 53-78 percent. According to the invention, a large amount of superfine tailings are utilized, cement clinker is not added, and good compressive strength which can be applied in industry can be displayed without adding additives such as activator and early strength agent, and the filler is used for mining, thereby realizing rational and effective utilization of mineral resources, refined resource exploitation and rationalization of tailings recovery, solving the problem of solid waste storage such as superfine tailings, metallurgical slags and desulfurization by-products, improving resource utilization rate and greatly reducing filling mining cost.

21: 2021/06049. 22: 2021/08/23. 43: 2021/10/05
51: A01C; A61L; B07B

71: Qingdao University of Technology, Institute of Agricultural Mechanization, Xinjiang Academy of Agricultural Sciences, Inner Mongolia University For Nationalities

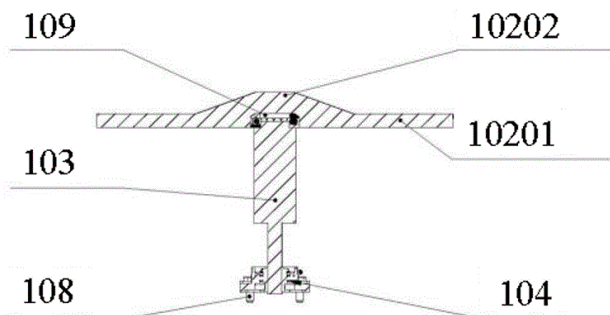
72: JIA, Dongzhou, LI, Changhe, ZHAO, Huayang, WANG, Rong, YANG, Huimin, SHI, Jia, PENG, Yezhen, GONG, Peng, ZHOU, Qiyu, LI, Deju, YUAN, Zongbin, HOU, Yali

54: INTELLIGENT SEED PRODUCTION APPARATUS AND METHOD BASED ON MULTISTAGE SCREENING AND BUD EYE IDENTIFICATION

00: -

An intelligent seed production apparatus and method based on multistage screening and bud eye identification includes a feeding module, a pre-cutting module, a bud eye identifying and cutting module, and a material mixing module. The feeding module can screen out seed potatoes with the mass

and shapes meeting the requirements through a multistage screening mechanism. The pre-cutting module can receive the seed potatoes discharged from the feeding module, and cut each seed potato in half; the bud eye identifying and cutting module can receive the seed potato pieces discharged from the pre-cutting module and determine the weight of the seed potatoes and identify the bud eye distribution on the surfaces of the seed potatoes, and cut the seed potato into multiple required tubers, so that bud eyes are distributed on different tubers uniformly. The material mixing module can receive the cut tubers, and complete the material mixing of the tubers.



21: 2021/06050. 22: 2021/08/23. 43: 2021/10/05
51: H04Q; H04W

71: Anhui University of Science & Technology

72: Li Jingzhao, Wang Lei, Qin Xiaowei

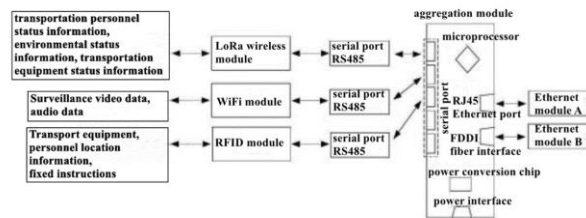
33: CN 31: 202011565820.7 32: 2020-12-25

54: A HETEROGENEOUS INTEGRATED MINING INTELLIGENT BASE STATION

00: -

The invention discloses a heterogeneous integrated mining intelligent base station, which comprises LoRa module, WiFi module, RFID module, aggregation module, Ethernet module A and Ethernet module B, wherein the aggregation module comprises serial port A, serial port B, serial port C, serial port D, serial port E, RJ45 Ethernet port, FDDI fiber interface, microprocessor, power conversion chip and power interface. The mining intelligent base station can transmit sensed data, audio data, video data, and adopt different data transmission modes according to the types of data to reasonably allocate network resources, which ensures the reliability and real-time of important data transmission, and alleviates channel congestion in various data transmission. The use of mining intelligent base

station is beneficial to the safety supervision of underground transportation system.



21: 2021/06051. 22: 2021/08/23. 43: 2021/10/05
51: B66B; G08B

71: Anhui University of Science & Technology

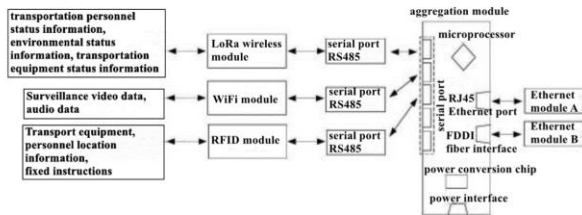
72: Li Jingzhao, Lu Liangwei

33: CN 31: 202110070287.5 32: 2021-01-19

54: AN INTELLIGENT MONITORING SYSTEM FOR HOISTING ELECTROMECHANICAL MACHINE BASED ON AUDIO FEATURE ANALYSIS

00: -

The invention relates to an intelligent monitoring system for hoisting electromechanical machines based on audio feature analysis. The system is composed of the acquisition node microprocessor, Wi-Fi wireless communication module a, power module a, audio acquisition module, analysis node microprocessor, Wi-Fi wireless communication module b, power module b, audio feature extraction and analysis module, serial port communication module, upper computer monitoring center and mobile terminal. The analysis node microprocessor controls the audio acquisition module to collect the audio data of the hoisting electromechanical machine, and sends the microprocessed data to the analysis node through the Wi-Fi wireless communication module a. The analysis node microprocessor controls the audio feature extraction and analysis module to carry out feature extraction and analysis on the data sent by the acquisition node, feature extraction and analysis of data through the serial port and wi-fi wireless communication network are sent to the upper computer monitoring center and mobile terminals, to improve hoisting electromechanical machine state intelligent monitoring, and ensure the stable operation of the hoisting electromechanical machine.



21: 2021/06052. 22: 2021/08/23. 43: 2021/10/05

51: G01C

71: North China University of Water Resources and Electric Power

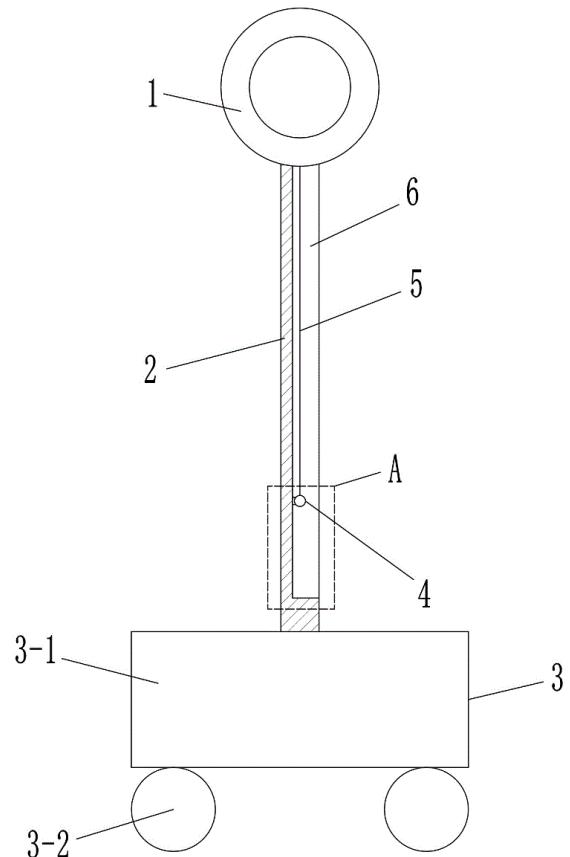
72: Duan Meixia, Jiang Yong, Lu Guiming, Liu Hechao, Chen Lixia, Bai Juan, Yuan Sheng, Zhang Xiaohua, Song Zengcai, Sun Xinjuan, Yao Shuxia, Xin Yanhui, Xia Zhenwei, Wang Sen, Yang Tianyu, Xiong Shichun

33: CN 31: 202110853487.8 32: 2021-07-27

54: A SIMPLE ELECTRONIC SLOPE MEASURING INSTRUMENT

00: -

The invention discloses a simple electronic slope measuring instrument, which comprises a trolley, wherein the bottom is provided with a distance measuring instrument for detecting the moving distance of the trolley; the vertical strut is vertically arranged on the trolley, which is provided with an angle sensor for detecting the angle between the vertical strut and the horizontal plane. The central processing unit is used for receiving the included angle detected by the angle sensor and the moving distance of the trolley detected by the distance measuring instrument at the included angle in real time. The included angle and the corresponding moving distance are connected head to tail according to the time sequence. A two-dimensional model is established, and the slope is obtained and output according to the two-dimensional model. The invention uses a trolley to make a linear motion on the slope surface of a slope, establishes a longitudinal trolley running track, and obtains the starting point and end point of the slope according to the running track, so as to obtain the slope by calculation.



21: 2021/06080. 22: 2021/08/24. 43: 2021/10/05

51: G06F; H04W

71: Shandong University, University of Johannesburg, Qingdao Hisense Network Technology Co., Ltd.

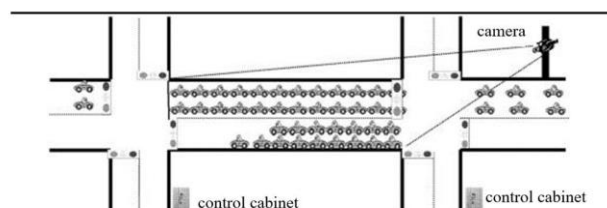
72: Zhu Wenxing, Zhao Honghao, Sun Yanxia, Feng Yuanhong, Su Shibin

54: VIDEO-BASED PHASE DIFFERENCE FUZZY INFERENCE DETERMINATION METHOD

00: -

The present invention provides a video-based phase difference fuzzy inference determination method. The method will make the rear traffic flow in the longer direction of the queue enter the downstream section later, so that the total number of parking times of vehicles is reduced, and the total traffic flow in the shorter queue direction will be less and more waiting time will not affect the overall traffic efficiency. At the same time, it will also make the traffic flow through the intersection in the vertical direction to get a longer traffic time. The implementation steps of the present invention are as follows: set up a high-definition camera rear side of a certain traffic flow direction on a certain road section

to photograph the two-way traffic queuing situation of the entire road section, obtain the queue length of the two-way traffic flow through image recognition technology; input the queue length of the two-way traffic flow into the fuzzy controller to obtain the phase difference of the two intersection signals on the road section through fuzzy inference.



21: 2021/06081. 22: 2021/08/24. 43: 2021/10/05
51: G08G

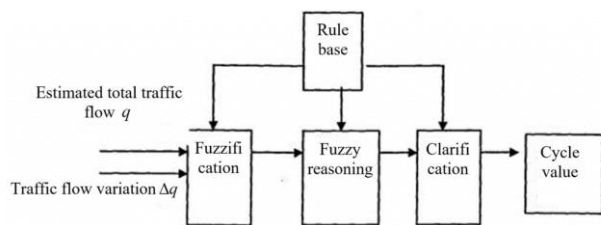
71: Shandong University, University of Johannesburg, Qingdao Hisense Network Technology Co., Ltd

72: Zhu Wenxing, Wang Zihao, Sun Yanxia, Feng Yuanhong, Su Shibin

54: TRAFFIC FLOW OPTIMIZATION CONTROL METHOD BASED ON INTERSECTION GROUP

00: -

The invention discloses a traffic flow optimization control method based on intersection group. It solves the problem that the minimum unit of urban traffic control at present is a single intersection, which can not meet the actual traffic control needs, and can realize the optimization of local traffic flow and is helpful for micro-control of traffic flow. The method comprises the following steps: (1) Collecting the actual traffic flow of "intersection group" on urban roads in real time using ground induction coils paved in cities; (2) Establishing an optimization control model using intelligent methods, and reasoning and optimizing the parameters of the controller according to real-time traffic information; (3) The controller optimally controls the traffic flow according to the control model.



21: 2021/06082. 22: 2021/08/24. 43: 2021/10/05

51: G08G

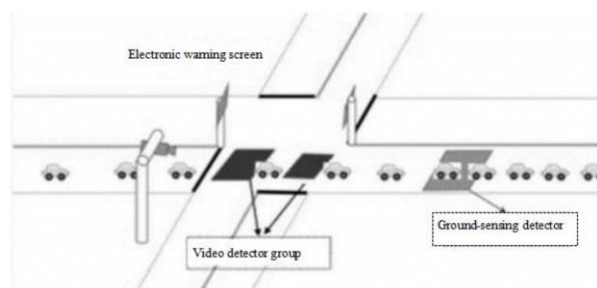
71: Shandong University, University of Johannesburg, Qingdao Hisense Network Technology Co., Ltd

72: Zhu Wenxing, Zhao Jun, Sun Yanxia, Feng Yuanhong, Su Shibin

54: CONTROL METHOD AND SYSTEM FOR PREVENTING VEHICLE DETENTION AT THE INTERSECTION

00: -

The invention discloses a control method and system for preventing vehicle detention at an intersection, including in the intersection, a reminder device is installed to indicate whether the direction of the intersection is congested or not; carrying out queuing vehicle detection at the set position of the downstream section of the intersection and the intersection detection area respectively; when it is detected that the queued vehicles arrive at the set position of the downstream section of the intersection, a warning signal is issued to prevent subsequent vehicles from continuing to enter; when the queuing vehicle dissipating signal at the set position of the downstream section of the intersection and the queuing vehicle dissipating signal in the intersection detection area are detected at the same time, turn off the warning signal. The beneficial effects of the present invention: by detecting the queued vehicles on the downstream section of the intersection, remind the vehicles that have not entered the intersection before the vehicle stagnation occurs, which can effectively prevent the occurrence of the vehicle stagnation phenomenon.



21: 2021/06083. 22: 2021/08/24. 43: 2021/10/05
51: C21D

71: Shanghai Maritime University

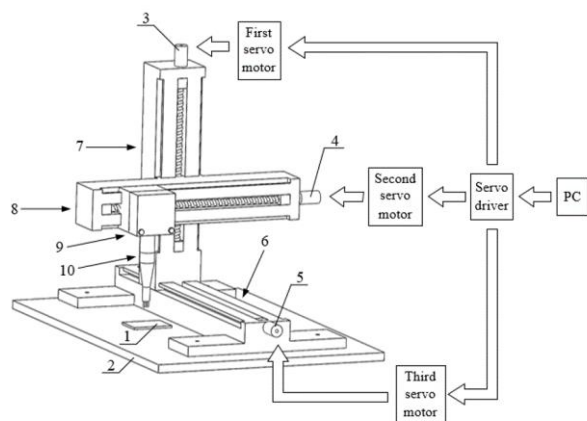
72: Bangping Gu, Wenzhe Xue, Xiong Hu, Zhipeng Huo, Wanjia Shen, Yanjia Shen, Wenjie Hua, Yu Ji, Shuaizhen Li, Junshuo Wang

33: CN 31: CN202110646264.4 32: 2021-06-10

54: ULTRASONIC IMPACT VIBRATORY STRESS RELIEF SYSTEM

00: -

The present invention discloses an ultrasonic impact vibratory stress relief system, comprising a supporting platform, a composite base, a column, a beam, an ultrasonic impact gun, a fixing device of the ultrasonic impact gun, a PC, a servo driver, three servo motors and three couplers. The composite base is connected with the supporting platform, the column is connected with the composite base, the beam is connected with the column, the fixing device of the ultrasonic impact gun is connected with the beam, and the ultrasonic impact gun is fixed on the fixing device of the ultrasonic impact gun. The PC is connected with the servo driver, the servo driver is connected with three servo motors, and the servo motors are connected with the respective ball screws via the couplers. The present invention has the advantage of applying the stable ultrasonic impact vibratory stress relief treatment to the welded structure.



21: 2021/06084. 22: 2021/08/24. 43: 2021/10/05
51: A01N; C05F

71: Tianjin University

72: Ding Hui, Zhao Dan, Liu Rui

33: CN 31: 202011464286.0 32: 2020-12-10

54: FUNCTIONAL ORGANIC FERTILIZER FOR INCREASING YIELD WHILE REMEDYING

00: -

The invention provides a functional organic fertilizer for increasing yield while remedying. The fertilizer comprises a fermentation product obtained by fermenting modified zeolite, modified palygorskite and organic matter with yeast and Lactobacillus acidophilus and composite bacterial powder.

Wherein the mass ratio of the modified zeolite, the modified palygorskite and the organic matter is 20-50 : 30-60 : 50-80. Composite bacterial powder accounts for 1-10 wt percent of fermentation product. The modified zeolite is selected from polyacrylamide modified zeolite. The modified palygorskite is selected from palygorskite modified by magnesium sulfate. The composite bacterial powder comprises *Bacillus subtilis*, *Trichoderma harzianum*, *Paecilomyces lilacinus*, *Bacillus laterosporus* and *Bacillus cereus* in a mass ratio of 5-8 : 5-8 : 1-3 : 5-8 : 1-3. The functional organic fertilizer provided by the invention can not only remedy the soil and remove heavy metal pollution such as cadmium and chromium in the soil, but also promote the growth of crops and increase the yield of crops.

21: 2021/06085. 22: 2021/08/24. 43: 2021/10/14
51: B01J

71: BEIJING GENERAL RESEARCH INSTITUTE OF MINING & METALLURGY

72: YANGGE ZHU, XINGRONG ZHANG, WEI XIONG, LIANG LU, LONG HAN, DAN ZHANG

33: CN 31: 202110674814.3 32: 2021-06-18

54: AMINO XANTHATE ESTER SULFIDE ORE COLLECTOR AND PREPARATION METHOD AND APPLICATION THEREOF

00: -

The present invention relates to the technical field of mineral processing, and particularly relates to an amino xanthate ester sulfide ore collector and a preparation method and application thereof. A first object of the present invention is to provide an amino xanthate ester sulfide ore collector. The sulfide ore collector of the present invention changes the traditional xanthate structure so that the collecting capability and selectivity of flotation of the multi-metal sulfide ore are improved, may be used for flotation of chalcopyrite, galena, sphalerite, molybdenite and sulfide ore containing noble metals such as Au, Ag, etc., is especially suitable for flotation separation of a Cu-Pb-Zn multi-metal sulfide ore, and can improve the separation index of the Cu-Pb-Zn multi-metal sulfide ore.

21: 2021/06086. 22: 2021/08/24. 43: 2021/10/05
51: A01F; B01D

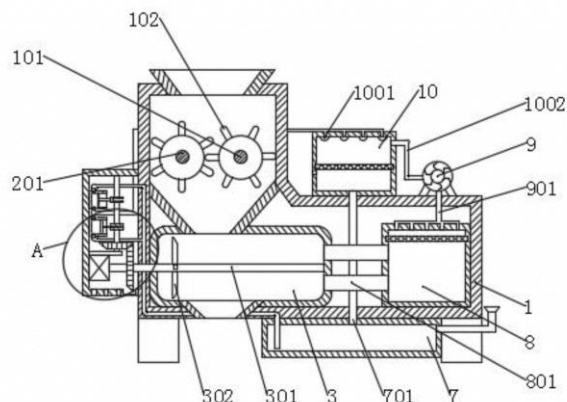
71: Zhejiang Institute of Garden Plants and Flowers
(Zhejiang Xiaoshan Institute of Cotton and Bast
Fiber Crops Research), Zhangjiajie Agricultural
Science and Technology Research Institute

72: AN, Xia, DONG, Guoyun, JIN, Guanrong, LUO,
Xiahong, CHEN, Changli, LI, Wenlue, LIU, Tingting,
ZHU, Guanlin

54: DIRECT-FEED FLAX THRESHER WITH WINNOWER DEVICE

00: -

The present disclosure discloses a direct-feed flax
thresher with a winnowing device, belonging to the
technical field of threshers, including a case. A
threshing mechanism and a dust collection
mechanism are respectively disposed within the
case. The present disclosure has simple structure,
convenient operation and greatly improved
practicality.



21: 2021/06087. 22: 2021/08/24. 43: 2021/10/15
51: A23L

71: HEBEI NORMAL UNIVERSITY OF SCIENCE
AND TECHNOLOGY

72: LIU, SUWEN, CHANG, XUEDONG, LIU,
XIUFENG, SHI, PENGBO

54: PREPARATION METHOD FOR FRUIT ULTRAFINE POWDER SOLID BEVERAGE

00: -

The present invention relates to the technical field of
solid beverages, in particular to a preparation
method for a fruit ultrafine powder solid beverage.
The present invention discloses a preparation
method comprising the following steps: firstly, cutting
fresh fruits into slices and vacuum drying them until
the water content is $32\pm 1\%$. Secondly, conducting

microwave-vacuum puffing on the fruit slices until
the water content is $10\pm 1\%$ with a puffing rate of 1.2-
1.5. Thirdly, crushing, screening and then freezing
the screened crushed puffed fruit slices for 12 ± 1 h at
 -20°C to obtain frozen fruits powder. Fourthly,
conducting ultrafine crushing on the frozen fruits
powder until the particle size is smaller than $20\text{ }\mu\text{m}$
to obtain fruit ultrafine powder. Lastly, uniformly
mixing the fruit ultrafine powder with maltodextrin
and xylitol to obtain a fruit solid beverage.

21: 2021/06089. 22: 2021/08/24. 43: 2021/09/17
51: B64C

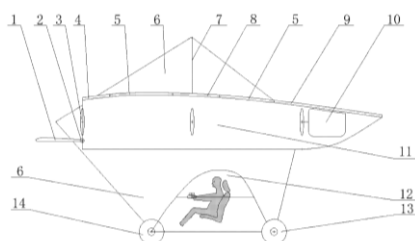
71: YANG, Weihua

72: YANG, Weihua

54: AIRCRAFT AND METHOD FOR ACHIEVING VERTICAL TAKE-OFF AND LANDING AND HORIZONTAL FLIGHT BY SEGMENTED TILTING BOTTOM-DRIVEN PLATE WINGS

00: -

The present invention relates to an aircraft and a
method for achieving vertical take-off and landing
(VTOL) and horizontal flight by segmented tilting
bottom-driven plate wings. Each large-area plate
wing is transversely divided into a plurality of
movable strip-shaped plate wings and fixed strip-
shaped plate wings; the fixed strip-shaped plate
wings are rigidly connected with a fuselage without
moving parts; the movable strip-shaped plate wings
are connected with the fuselage through horizontal
hinges and can be tilted longitudinally; lower parts of
the movable strip-shaped plate wings are fixedly
connected with driving devices, so that the movable
strip-shaped plate wings tilt as a louver; when tilting
to horizontal, the movable strip-shaped plate wings
are combined into a large-area plate wing, and the
driving devices are connected in series one behind
another, thereby blowing high-speed airflow from the
lower part of the wing along a tangential direction to
achieve horizontal flight.



21: 2021/06090. 22: 2021/08/24. 43: 2021/10/08
51: A61L

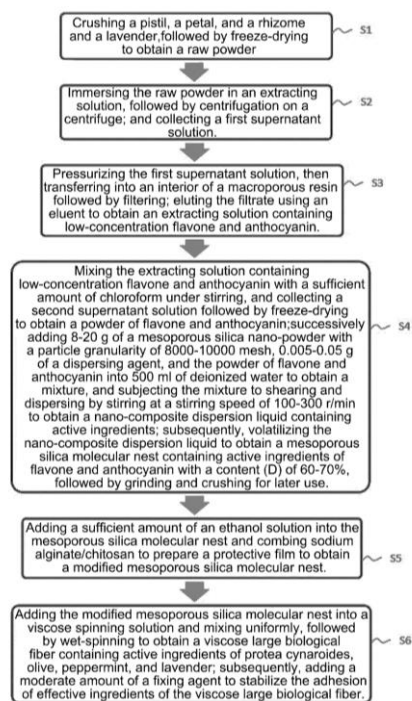
71: BESTEE MATERIAL (QINGDAO) CO., LTD.,
SINOTECH ACADEMY OF TEXTILE (QINGDAO)
CO., LTD., QINGDAO BYHERB NEW MATERIAL
CO., LTD.

72: HUANG, Xiaohua, ZHEN, Li, CHI, Shan

**54: A VISCOSE LARGE BIOLOGICAL FIBER
CONTAINING ACTIVE INGREDIENTS OF
PROTEA CYNAROIDES, OLIVE, PEPPERMINT
AND LAVENDER, AND A METHOD FOR
PREPARING THE SAME**

00: -

Disclosed are a viscose large biological fiber containing active ingredients of protea cynaroides, olive, peppermint and lavender, and a method for preparing the same, relating to the preparation of fiber. In the preparation, a pistil, a petal, and a rhizome of protea cynaroides, olive, peppermint, and lavender are crushed followed by freeze-drying to obtain a raw powder. The method provided in this disclosure extracts and concentrates the flavonoids and the anthocyanins in protea cynaroides olive, peppermint, and lavender, which can effectively remove oxygen-free radicals in the body. Such anti-oxidant capability can prevent cell degradation and aging and the occurrence of cancer, reduce the production of skin oils. In addition, the anti-oxidation can inhibit the bacteria adhered to the viscose large biological fiber, thereby avoiding the growth of bacteria.



21: 2021/06091. 22: 2021/08/24. 43: 2021/10/08
51: G01N

71: PLANT PROTECTION RESEARCH INSTITUTE
GUANGDONG ACADEMY OF AGRICULTURAL
SCIENCES

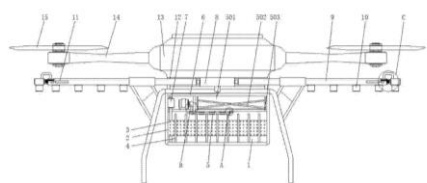
72: WANG, Xiaonan, SUN, Haibin, LIU, Yanping,
WANG, Siwei, CHANG, Hong

33: CN 31: 202011557859.4 32: 2020-12-25

**54: AGRICULTURE DRONE EQUIPPED WITH
LIQUID OVERFLOW PREVENTION APPARATUS**

00: -

Disclosed is an agriculture drone equipped with a liquid overflow prevention apparatus, which relates to drone technologies. The agriculture drone equipped with a liquid overflow prevention apparatus includes a liquid tank; wherein a positioning baffle is provided inside the liquid tank, through-holes are provided in an inner wall of the positioning baffle, a middle portion of the positioning baffle is connected with connected filter screen plates, an ancillary agitating mechanism is mounted above the connected filter screen plates, one side of the ancillary agitating mechanism is mounted with a connection hose, a middle portion of the connection hose is connected with a water pump, an undercarriage is connected above the liquid tank, and a fixed shaft tube is connected inside the undercarriage.



21: 2021/06092. 22: 2021/08/24. 43: 2021/10/05
51: C08L
71: ZHUIXIN DIGITAL TECHNOLOGY CO., LTD.
72: Zhang Jing Min
33: CN 31: 201911039829.1 32: 2019-10-29
54: MANUFACTURING METHOD OF HEAT DISSIPATION MATERIAL FOR HEAT ABSORPTION AND HEAT TRANSFER RADIATIVE RECOMBINATION MECHANISM CPU
00: -

The present disclosure discloses a heat dissipation material for a heat absorption and heat transfer radiative recombination mechanism CPU and a manufacturing method thereof. The heat dissipation material is composed of three parts: a matrix part referring to 55-80 weight parts of a P(VDF-TrFE) copolymer with inner cellular multichannel through holes; a filler part which is a mixture cured inside the matrix part and includes three components of 15-20 parts of polymethyl methacrylate, 25-35 parts of ethylene vinyl acetate and 15-25 parts of graphite powder; and a graphene film layer attached to the outer surface; the film layer has a water contact angle of 118° - 123° ; and heat conductivity is $4800\text{W/m}\cdot\text{K}$ - $5300\text{W/m}\cdot\text{K}$. The present disclosure has surface hydrophobicity, large specific surface area, fast heat dissipation, coexistence of multiple heat dissipation modes and dual increase of overall heat dissipation efficiency.

21: 2021/06093. 22: 2021/08/24. 43: 2021/10/05
51: C08F
71: CHUXIN DIGITAL TECHNOLOGY CO., LTD.
72: Zhang Jing Min
33: CN 31: 201911040560.9 32: 2019-10-29
54: MANUFACTURING METHOD OF HONEYCOMB SOLID-LIQUID COMPOSITE HEAT DISSIPATION MATERIAL FOR CPU HEAT DISSIPATION
00: -

The present disclosure discloses a honeycomb solid-liquid composite heat dissipation material for

CPU heat dissipation and a manufacturing method thereof. The heat dissipation material is composed of two parts: a matrix part referring to 55-80 weight parts of a P(VDF-TrFE) copolymer with inner cellular multichannel through holes; and a filler part which is a mixture cured inside the matrix part and includes three components of 15-20 parts of polymethyl methacrylate, 25-35 parts of ethylene vinyl acetate and 15-25 parts of graphite powder. The present disclosure has no need of adhesives and has large specific surface area, fast heat dissipation, coexistence of multiple heat dissipation modes, weather resistance, oxidation resistance and cracking resistance.

21: 2021/06094. 22: 2021/08/24. 43: 2021/10/05
51: C08F
71: CHUXIN DIGITAL TECHNOLOGY CO., LTD.
72: Zhang Jing Min
33: CN 31: 201911040560.9 32: 2019-10-29
54: MANUFACTURING METHOD OF COPPER-TOURMALINE COMPOSITE HEAT DISSIPATION MATERIAL FOR CPU HEAT DISSIPATION
00: -

The present disclosure discloses a copper-tourmaline composite heat dissipation material for CPU heat dissipation and a manufacturing method thereof. The heat dissipation material is composed of two parts: an inner layer which is a copper-tourmaline composite material formed by mixing and sintering 15-20 parts of red copper and 100-120 parts of iron tourmaline having granularity of 500-800 meshes; and a surface layer which is a copper sheet formed by pouring 5-15 parts of red copper. A plurality of major three-dimensional pore path systems having a pore size of 2mm-3mm and a mesh spacing of 5-6 mm are arranged inside the composite heat dissipation material; and irregular pores are densely distributed in other regions inside the material. The present disclosure has efficient radiant heat dissipation capacity, excellent thermal conductivity, surface impact resistance and high overall strength.

21: 2021/06117. 22: 2021/08/25. 43: 2021/10/05
51: C07B
71: Fu Chunyan, The First Affiliated Hospital of Shaoyang University, Pharmacy college of Shaoyang University

72: Fu Chunyan, Liu Yonghui, Feng Fen, Zeng Li

54: METHOD FOR MEASURING CONTENT OF LILIUM BROWNII VAR. VIRIDULUM TOTAL SAPONINS

00: -

The invention discloses a method for measuring the content of *Lilium brownii* var. *viridulum* total saponins, belonging to the technical field of chemical analysis. The specific steps of the method for measuring the content of *Lilium brownii* var. *viridulum* total saponins include: (1) taking dried and crushed *Lilium brownii* var. *viridulum* sample powder, adding it into a nonpolar organic solvent, carrying out ultrasonic treatment and filtering; (2) taking the filter residue filtered in the step (1), adding methanol, performing ultrasonic extraction, filtering, and concentrating the filtrate to obtain a crude *Lilium brownii* var. *viridulum* total saponin; (3) purifying the crude *Lilium brownii* var. *viridulum* total saponin obtained in the step (2) by using solid phase extraction, concentrating the extraction liquid, and fixing the volume to obtain a *Lilium brownii* var. *viridulum* total saponin solution to be measured; (4) measuring the content of the *Lilium brownii* var. *viridulum* total saponin in the solution to be measured of the *Lilium brownii* var. *viridulum* total saponin obtained in the step (3) by using ultraviolet-visible absorption spectrometry. The measuring method disclosed by the invention has the advantages of simple operation, short time consumption, accurate measuring result and convenient application.

21: 2021/06118. 22: 2021/08/25. 43: 2021/10/05
51: B82Y

71: Qingdao Agricultural University

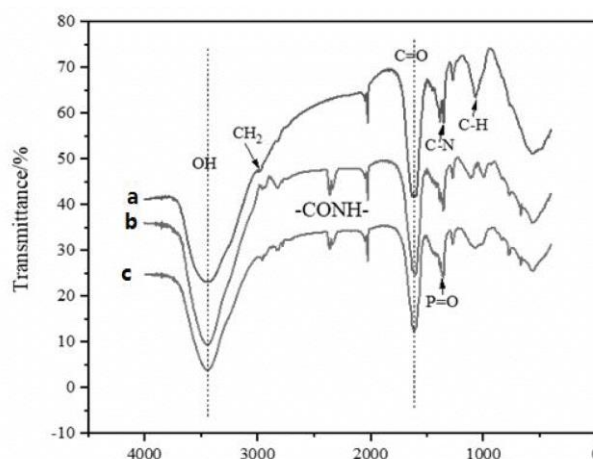
72: Hui Ni, Wang Jiasheng

54: PREPARATION METHOD AND APPLICATION OF CONDUCTING POLYMER NANOWIRE BIOSENSOR

00: -

The invention discloses a preparation method and application of a conducting polymer nanowire biosensor, which belongs to the field of electrochemical biosensors. The preparation method of the biosensor comprises the following steps: adding chondroitin sulfate into phosphate buffer solution to form a mixed solution, adding pyrrole, ultrasonically dissolving to prepare a deposition solution, and preparing conducting polymer

nanowires by an electrochemical method; mixing catalyst and DNA aptamer to prepare incubation solution; coating the incubation liquid drops on the conducting polymer nanowire, and incubating to obtain the conducting polymer nanowire biosensor. The method can select different DNA aptamers to develop biosensors suitable for detecting different pesticide residues and possesses the advantages of simple operation and rapid and accurate detection of pesticide residues.



21: 2021/06119. 22: 2021/08/25. 43: 2021/10/05
51: G01N

71: Qingdao Agricultural University

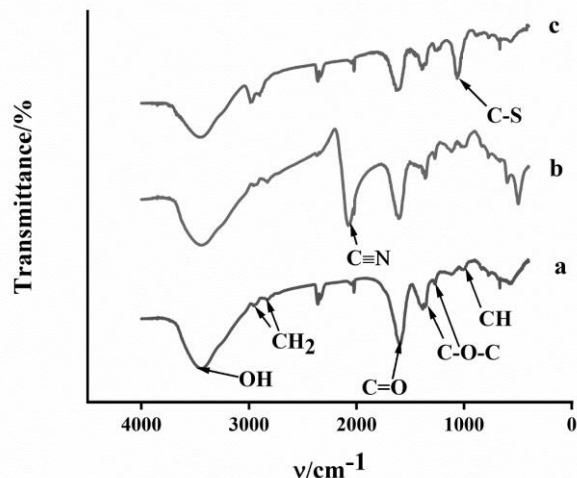
72: Hui Ni, Wang Jiasheng

54: BIOSENSOR, PREPARATION METHOD THEREFOR AND APPLICATION THEREOF

00: -

The present invention relates to a biosensor and a preparation method therefor and application thereof, and belongs to the technical field of electrochemical biosensors. The biosensor is composed of a working electrode and a carbon quantum dot/prussian blue/poly 3,4-ethylenedioxythiophene/acetamiprid aptamer composite material. The carbon quantum dot/prussian blue composite material and 3,4-ethylenedioxythiophene are co-deposited onto the working electrode to obtain a carbon quantum dot/prussian blue/poly 3,4-ethylenedioxythiophene modified electrode; and the carbon quantum dot/prussian blue/poly 3,4-ethylenedioxythiophene modified electrode is put into an acetamiprid aptamer solution to hatch to obtain the biosensor. While applied to acetamiprid detection, the biosensor has two modes, a DPV detection method

and a hydrogen peroxide detection method. The preparation process is simple, is good in selectivity on acetamidrid, is high in sensitivity, and has limit of detection of $6.84 \times 10^{-16} \text{g/mL}$ for acetamidrid.



21: 2021/06120. 22: 2021/08/25. 43: 2021/10/07

51: C09D; E04B

71: HuangShan University

72: Huang GuanJun, Wu Rui, Huang Jian

54: A WATERPROOF TECHNOLOGY FOR THE EXTERIOR WALLS OF HUIZHOU TRADITIONAL BUILDINGS

00: -

The invention discloses a waterproofing technology for the exterior walls of Huizhou traditional buildings, which includes the following steps: 1. cleaning up the wall; 2. rinsing the wall; 3. repairing the wall; 4. spraying waterproof coating. Compared with the prior art, the present invention has the advantages of being able to renovate the traditional Huizhou buildings and have the effect of waterproofing. After cleaning, repairing and strengthening the Huizhou buildings, the appearance looks more beautiful. The defects caused by long years of disrepair have also been repaired, making it exude a more charming cultural charm. The waterproof coating used on the exterior wall is a transparent coating, which does not affect the original appearance of the building and is very protective.

21: 2021/06121. 22: 2021/08/25. 43: 2021/10/07

51: B60C

71: Xuzhou College of Industrial Technology

72: Xu Yunhui, Wang Zaixue, Zang Yanan, Cong Houluo, Wang Zhongguang, Li Jiansong, Li Peipei, Zhang Zhaohong, Zhao Guiying

54: AGRICULTURAL TIRE CROWN RUBBER AND PREPARATION METHOD THEREOF

00: -

The invention discloses an agricultural tire crown rubber and a preparation method thereof, comprising the following raw materials in mass part: 25-35 phr of 20(hashtag) constant viscose; 15-25 phr of butadiene rubber 9000; 10-50 phr of emulsion poly Styrene Butadiene Rubber 1502; 70-30 phr of tire reclaimed rubber; 3.0-5.0 phr of zinc oxide; 2.0-4.0 phr of stearic acid; 0.5-0.7 phr of antioxidant BLE; 0.8-1.0 phr of antioxidant RD; 1.5-2.5 phr of antioxidant 4020; 2.0-3.0 phr of protective wax; 55-65 phr of intermediate super furnace black N220; 9.0-12 phr of aromatic oil; 1.5-2.5 phr of sulfur; 1.1-1.3 phr of accelerator NOBS; 1.0-2.0 phr of anti-thermal oxygen agent RF; 1.0-2.0 phr of uniform dispersant MS. The invention improves the processing performance of low-temperature emulsion poly SBR, realizes resource recycling, reduces pollution, protects the environment, and reduces production costs.

21: 2021/06122. 22: 2021/08/25. 43: 2021/10/07

51: C07J

71: Hangzhou Yingshili Biotechnology Limited Company

72: XIA CHEN, TU YOUYING

54: A METHOD FOR SEPARATING HIGH-PURITY CAMELLIA SINENSIS FLOWER SAPONIN

00: -

The invention relates to the technical field of separation, purification and preparation of natural compounds, in particular to a method for separating high-purity Camellia sinensis flower saponin monomer, and relates to the separation and purification of a high-purity pentacyclic triterpene oleanane saponin in Camellia sinensis. Compared with the prior art, this case has following innovation points: (a) The saponin substance Chakasaponin I with the purity of 80% is separated and extracted from Camellia sinensis flower for the first time. (b) The separation process is much easier to operate. (c) Good repeatability and pertinence.

21: 2021/06123. 22: 2021/08/25. 43: 2021/10/05

51: E04D

71: HuangShan University

72: Wu Rui, Huang Guanjun, Wu Wenjin

54: TRADITIONAL HUIZHOU ROOF TILE FORMING TECHNOLOGY

00: -

The invention discloses a traditional Huizhou roof tile forming technology, which comprises the following steps: (1) treatment of clay; (2) stirring; (3) putting into a mould; (4) drying; (5) firing; (6) spraying with a waterproof coating; (7) pasting an insulation layer. The advantage of the invention compared with the prior art is that the use of modern technology to produce traditional building materials can not only save a lot of manpower, but also improve the efficiency of production, which is very fast and cost-saving, and has good market prospects.

21: 2021/06124. 22: 2021/08/25. 43: 2021/10/07

51: G06Q

71: Shandong Normal University

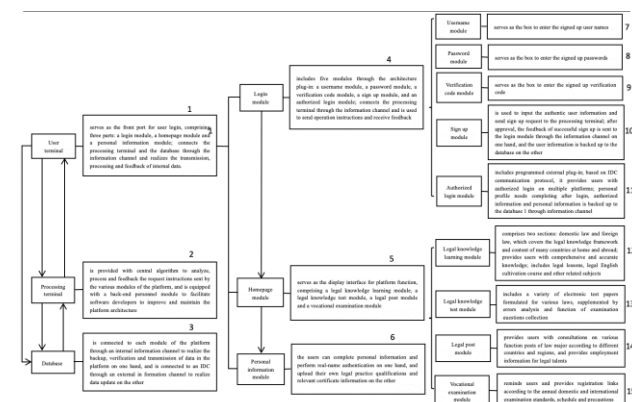
72: Xu Chengjin, Zhang Zhe

54: AN INTEGRATED PLATFORM AND OPERATION PATTERN FOR THE CULTIVATION OF INTERNATIONAL LEGAL TALENTS

00: -

The invention discloses an integrated platform and operation pattern for the cultivation of international legal talents, comprising a database based on platform architecture, a processing terminal and a user terminal; as the front port for user login, the user terminal comprises three parts: a login module, a homepage module and a personal information module; the user terminal connects the processing terminal and the database through the information channel and realizes the transmission, processing and feedback of internal data; the login module is composed of five modules through the architecture plug-in: a username module, a password module, a verification code module, a sign up module, and an authorized login module; the login module connects the processing terminal through the information channel and is used to send operation instructions and receive feedback. Compared with the prior art, the advantages of the invention are: reasonable design of platform architecture, intelligent function module names, architecture design, connection manner and operation mode. The invention provides a safe, high-efficient, favorably cyclic platform for communication, learning and referral for international

legal talents, which has good applicability and is easy to promote.



21: 2021/06125. 22: 2021/08/25. 43: 2021/10/14

51: A01H

71: RESEARCH INSTITUTE OF TROPICAL FORESTRY, CHINESE ACADEMY OF FORESTRY
72: YU, Niu, YANG, Jinchang, LI, Rongsheng, DONG, Mingliang

54: CROSS POLLINATION METHOD FOR MYTILARIA

00: -

A cross pollination method for *Mytilaria laosensis* including the steps of selecting excellent male and female parents of *Mytilaria laosensis*; collecting a secondary spray when the male parent grows to a full-blossom period; cutting the base of the spray into an oblique opening of 45°; inserting the spray into a nutrient tube containing MS nutrient solution; selecting a branch carrying inflorescence of the female parent to be flowered; cutting off partial leaves to obtain spray of the female parent; tying the nutrient tube with the spray of the male parent onto the spray of the female parent; introducing pollinating insects; bagging the female parent and tightening the bag opening after pollination; opening the bag after 1 month from pollinating; investigating a fruit setting number after 2 months. The present invention develops a cross pollination method for *Mytilaria laosensis* based on floral anatomy structure observation and long-term flowering phenology observation.

21: 2021/06127. 22: 2021/08/25. 43: 2021/10/14

51: C01B

71: MINSHAN ENVIRONMENTAL ENERGY HIGH TECH CO., LTD.

72: HE, FULIANG, HE, ZHIJUN, HE, ZHANYUAN, LI, ZHIJUN, ZHANG, HONGFU, XU, GANG
54: PRODUCTION METHOD FOR PREPARING ELECTRONIC GRADE SULFURIC ACID BY UTILIZING NON-FERROUS SMELTING FLUE GAS
 00: -

The present invention discloses a production method for preparing electronic grade sulfuric acid by utilizing non-ferrous smelting flue gas. In the present invention, depending on a non-ferrous smelting acid-making system, sulfur trioxide is absorbed by utilizing fuming sulfuric acid. The sulfur trioxide is evaporated twice, so that impurities in the smelting flue gas are completely removed and purity of sulfuric acid products reaches a SEMI-C12 standard. In the present invention, heating is conducted by utilizing flue gas in the system and waste heat of the sulfuric acid so that insecurity of steam or other heating modes is avoided; energy consumption is lowered, and production cost decreased. Product quality can reach a PPT-level standard required by an integrated circuit and large-scale continuous production can be realized.

21: 2021/06128. 22: 2021/08/25. 43: 2021/10/08
 51: A61B

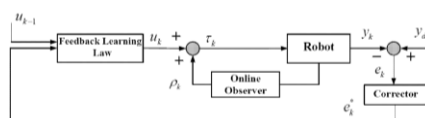
71: QILU UNIVERSITY OF TECHNOLOGY
 72: ZHAO, Yang, YAN, Zhiguo, LIU, Haiying, ZHANG, Fangfang, DENG, Lixia, LI, Yan, WANG, Da

33: CN 31: 202010896114.4 32: 2020-08-31

54: A METHOD FOR SELF-ADAPTIVE FEEDBACK LEARNING CONTROL OF ROBOT, WITH A CONTROLLER AND ROBOTS
 00: -

The present invention relates to a field of robot control, provides a control method for self-adaptive feedback learning of robots, with a controller and robots. Among that, the control method for self-adaptive feedback learning of robots includes: the actual trajectory of the controlled component of the robot is obtained, and the deviation of the trajectory is obtained by making a difference with the desired trajectory; the modified value of trajectory deviation is obtained by multiplying the random variable satisfying Bernoulli distribution and trajectory deviation, which can be used as the input value of feedback learning law; based on the control of the controlled component in the previous motion and the

feedback learning law, the control of the controlled component in the current motion is achieved.



21: 2021/06140. 22: 2021/08/25. 43: 2021/10/05
 51: G02B

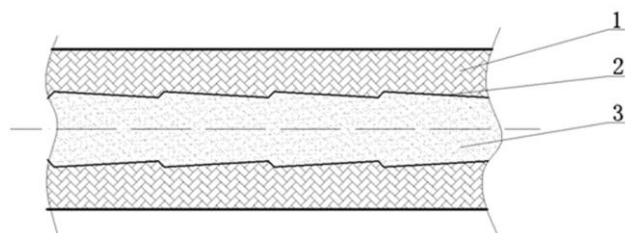
71: SHANDONG GUANGYUN INTELLIGENT TECHNOLOGY CO., LTD

72: Zhang Jing Min

33: CN 31: 201910464167.6 32: 2019-05-30

54: MULTI-NODE OPTICAL FIBER FOR LONG-DISTANCE LIGHTING, AND MANUFACTURING METHOD THEREOF
 00: -

The present disclosure discloses a multi-node optical fiber for long-distance lighting, and a manufacturing method thereof. The multi-node optical fiber is composed of an outer shell of 2,2,2-trifluoroethyl methacrylate (TFEMA, fluorine monomer) polymer and a core of poly(methylmethacrylate) (PMMA); a joint surface of the outer shell and the core is in a sawtooth shape; all tooth root lines of corresponding tooth roots in the sawtooth are parallel to an axis of the core; a tooth surface of the sawtooth is divided into a sunny slope and a shady slope, an included angle between the sunny slope and a corresponding tooth root line is 1° to 1.2° , and an included angle between the shady slope and a corresponding tooth root line is 0.1° to 0.12° ; a distance between two adjacent tooth roots is 10 cm to 12 cm; and when the optical fiber is used, light travels along a tooth-shaped path, which extends from a connection between the shady slope and the tooth root line to a connection between the sunny slope and the tooth root line in one direction. The multi-node optical fiber of the present disclosure is suitable for deep and humid environments, resistant to corrosion, and easy to use, enables long-distance lighting, requires no electricity, and does not need to be bent.



21: 2021/06141. 22: 2021/08/25. 43: 2021/10/05
51: B60K

71: SHANDONG GUANGYUN INTELLIGENT TECHNOLOGY CO., LTD.

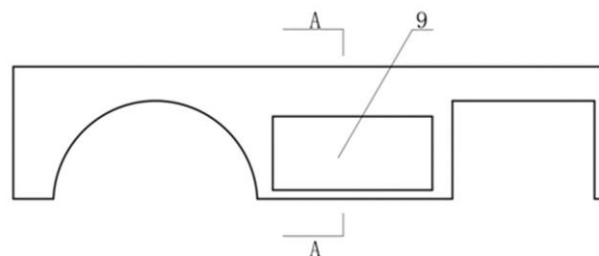
72: Zhang Jing Min

33: CN 31: 201910606286.0 32: 2019-07-05

54: SOFT AND EASY-TO-CLEAN AUTOMOBILE COMPOSITE CENTER CONSOLE COVER WITH POWER GENERATION AND DEVELOPMENT FUNCTIONS, AND MANUFACTURING METHOD THEREOF

00: -

The present disclosure discloses a soft and easy-to-clean automobile composite center console cover with power generation and development functions, and a manufacturing method thereof. The center console cover is divided into two regions: a light receiving region and a functional region; the light receiving region is provided with an upper lining layer, upper indium tin oxide (ITO) glass, an upper absorption layer, a hole conduction layer, a lower absorption layer, lower ITO glass, and a bottom lining layer from top to bottom; the functional region includes an auxiliary integrated electrical control center and a display screen; the auxiliary integrated electrical control center includes an electrochemical capacitive energy storage device, a 12 V direct current (DC) regulated power supply, and a processing chip, a memory, and I/O channels that are supplied with energy through the 12 V DC regulated power supply; and the display screen includes an underneath touch structure and a display panel. The present disclosure adds an auxiliary control system, lowers a temperature in a vehicle, integrates power generation, collection, and consumption, and has a development function and a soft and easy-to-clean surface.



21: 2021/06142. 22: 2021/08/25. 43: 2021/10/05
51: H01L

71: SHANDONG GUANGYUN INTELLIGENT TECHNOLOGY CO., LTD.

72: Zhang Jing Min

33: CN 31: 201910615090.8 32: 2019-07-09

54: HIGH-ENERGY LIGHT ABSORPTION AND CONVERSION MATERIAL FOR RADIATION PROTECTION IN HIGH-RISK AREAS, AND MANUFACTURING METHOD THEREOF

00: -

The present disclosure discloses a high-energy light absorption and conversion material for radiation protection in high-risk areas, and a manufacturing method thereof. The light absorption and conversion material is composed of indium tin oxide (ITO) glass and a functional layer cured on a surface of the ITO glass. The functional layer is obtained by thoroughly mixing a polyimide (PI) resin, an ammoniated graphene oxide (GO) electrothermal homogenization medium, a light and heat sensing solution, and a bismuth telluride powder at a mass ratio of 30:(8-10):(25-35):(30-35) and curing a resulting mixture on the ITO glass. The high-energy light absorption and conversion material of the present disclosure integrates photoelectric conversion and thermoelectric conversion functions, has high overall efficiency and high safety factor, and can block high-energy rays.

21: 2021/06143. 22: 2021/08/25. 43: 2021/10/05
51: H01L

71: SHANDONG GUANGYUN INTELLIGENT TECHNOLOGY CO., LTD.

72: Zhang Jing Min

33: CN 31: 201910615656.7 32: 2019-07-09

54: HIGH-ENERGY SOLAR PANEL FOR HIGH-ULTRAVIOLET (UV) WILDERNESS, AND MANUFACTURING METHOD THEREOF

00: -

The present disclosure discloses a high-energy solar panel for high-ultraviolet (UV) wilderness and a

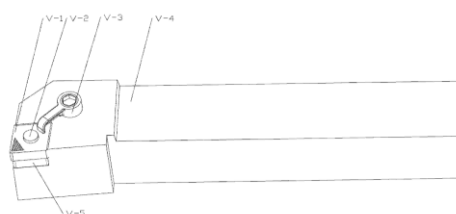
manufacturing method thereof. The solar panel is composed of an upper heat sensing layer and a lower light sensing layer. The heat sensing layer is obtained by thoroughly mixing a polyimide (PI) resin, a heat sensing solution, and a bismuth telluride powder at a mass ratio of 30:(32-38):(30-40) and curing a resulting product; and the light sensing layer is a perovskite-based photoelectric conversion material with a seven-layer structure including an upper lining layer, upper ITO glass, an upper absorption layer, a hole conduction layer, a lower absorption layer, lower ITO glass, and a bottom lining layer. The solar panel of the present disclosure integrates photoelectric conversion and thermoelectric conversion functions, has high overall efficiency and wide application range, can absorb and digest UV rays, and is suitable for wilderness areas.

21: 2021/06162. 22: 2021/08/25. 43: 2021/10/08
51: B23B; B23Q
71: QINGDAO UNIVERSITY OF TECHNOLOGY, NINGBO SANHAN ALLOY MATERIAL CO., LTD.
72: LI, Changhe, WANG, Xiaoming, LUO, Liang, CAO, Huajun, LU, Bingheng, LI, Runze, ZHANG, Yanbin, LUO, Huiming, DIAO, Yuchen, XU, Haizhou, JIA, Dongzhou, YANG, Min, HOU, Yali
33: CN 31: 201910471330.1 32: 2019-05-31
54: EXTERNAL COOLING TEXTURE TURNING TOOL COMPONENT AND TURNING PROCESS SYSTEM FOR COUPLING NANOFLUID MINIMUM QUANTITY LUBRICANT WITH MICRO-TEXTURE TOOL

00: -

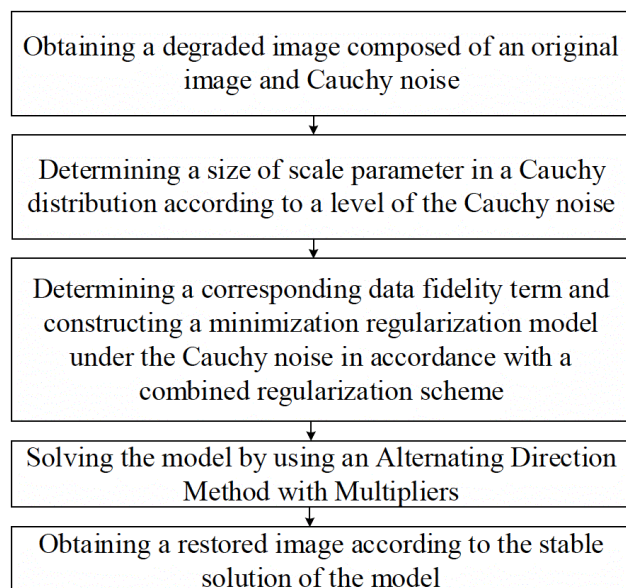
Provided is an external cooling texture turning tool component and a turning process system for coupling nanofluid minimum quantity lubricant with a micro-texture tool. The external cooling texture turning tool component comprises an external cooling turning tool handle and an external cooling turning tool blade; the external cooling turning tool blade is arranged at one end of the external cooling turning tool handle serving as a bearing device; an external cooling turning tool pad is arranged between the external cooling turning tool blade and a structure of the external cooling turning tool handle bearing the blade; an external cooling turning tool pressing plate part is further arranged on the external cooling turning tool handle; the external cooling turning tool blade is tightly pressed on the

external cooling turning tool handle by the external cooling turning tool pressing plate part.



21: 2021/06188. 22: 2021/08/26. 43: 2021/09/06
51: G06F; G06T
71: SHANDONG UNIVERSITY OF SCIENCE AND TECHNOLOGY
72: ZHU, Jianguang, LV, Haijun, WEI, Juan, HAO, Binbin
33: CN 31: 202011281361.X 32: 2020-11-16
54: METHOD FOR IMAGE RESTORATION UNDER CAUCHY NOISE AND USE THEREOF
00: -

The present disclosure belongs to a technical field of image processing and discloses a method for image restoration under Cauchy noise and application therefor. The method comprises the steps of obtaining a degraded image composed of an original image and Cauchy noise, determining a scale parameter in a Cauchy distribution according to a level of the Cauchy noise, determining a corresponding data fidelity term and constructing a minimization regularization model under the Cauchy noise in accordance with a combined regularization scheme, and solving the model by using a fast algorithm proposed under a framework of an Alternation Direction Method of Multipliers (ADMM) and obtaining a restored image according to a stable solution of the model. Blur and Cauchy noise in images can be effectively removed in the present disclosure. A new combined regularization scheme is proposed to overcome shortcomings in single regularization, alleviate or avoid staircase effect.



21: 2021/06200. 22: 2021/08/26. 43: 2021/09/20
51: H01L

71: WUXI DINGSENMAO TECHNOLOGY CO., LTD., SUZHOU COOP&INNO GREEN ENERGY TECHNOLOGY CO., LTD., WUXI COOP&INNO GREEN ENERGY TECHNOLOGY CO., LTD.

72: ZHANG, YUJUN, TAO, AIBING, ZHANG, HUANHUAN, SHEN, JIA, ZHANG, GUOMING

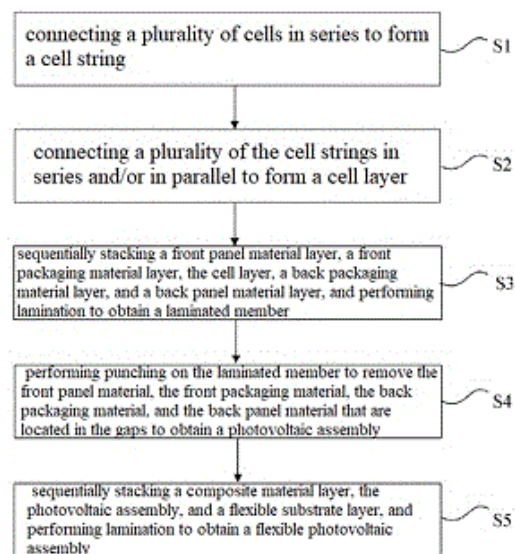
33: CN 31: 201910148605.8 32: 2019-02-28

54: FLEXIBLE PHOTOVOLTAIC ASSEMBLY AND MANUFACTURING METHOD THEREFOR

00: -

Provided in the present application is a manufacturing method for a flexible photovoltaic assembly, the method comprising: 1) connecting a plurality of cell sheets in series to form a cell string; 2) using an electrical connection material to connect a plurality of the cell strings in series and/or in parallel to form a cell layer, wherein a gap is present between adjacent cell strings; 3) sequentially stacking a front panel material layer, a front packaging material layer, the cell layer, a back packaging material layer, and a back panel layer, and performing lamination to obtain a laminated member; 4) performing punching on the laminated member to remove the front panel material layer, the front packaging material layer, the back packaging material layer, and the back panel layer that are located in the gap to obtain a photovoltaic assembly, the photovoltaic assembly comprising a plurality of photovoltaic assembly units, and the photovoltaic assembly units are electrically connected by means of the electrical connection material; and 5)

sequentially stacking a composite material layer, the photovoltaic assembly, and a flexible substrate layer, and performing lamination to obtain a flexible photovoltaic assembly.



21: 2021/06228. 22: 2021/08/25. 43: 2021/10/14
51: B21C

71: JIANGSU YONGDA CHEMICAL EQUIPMENT CO., LTD

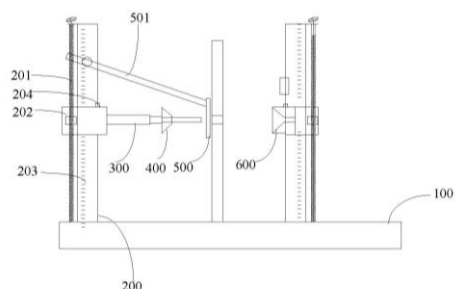
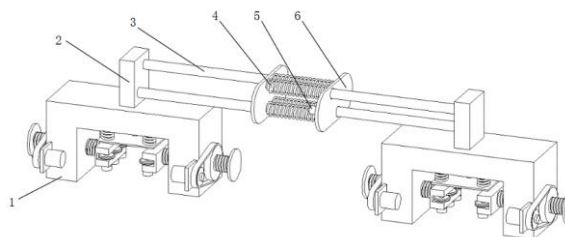
72: HUILONG LU, LIUJUN YU

33: CN 31: 202121389727.5 32: 2021-06-22

54: FLANGING MACHINE

00: -

The utility model relates to a flanging machine, including a bottom plate, wherein the top of the bottom plate is provided with two vertical brackets opposite to each other; a jack, vertically and movably mounted on the inner side of one bracket; a male die, arranged at a movable end of the jack; an electric heating plate, wherein the back of the electric heating plate is hinged onto the bracket on which the jack is fixed by a connecting rod and the front end of the electric heating plate is used for heating a to-be-flanged part of a jacketed sleeve; and a female die, coupled to the to-be-flanged part of the jacketed sleeve and matched and extruded with the male die to form a jacketed sleeve flanging structure.



21: 2021/06269. 22: 2021/08/30. 43: 2021/10/08

51: E01B; G07C

71: Zhengzhou Railway Vocational and Technical Col

72: Li Fan, Yang Liu, Zhang Jiaxiang, Liu Fuxing, Du Lingxia, Feng Shenshen

33: CN 31: 202110904392.4 32: 2021-08-06

54: A RAILWAY INSPECTION DEVICE

00: -

The present invention provides a railway inspection device, which includes two sets of walking inspection mechanisms arranged symmetrically. Each set of walking inspection mechanisms includes: an n-shaped frame with a mounting plate fixed on the top; the test board, the top of which is connected to the top of the slot of the n-shaped through a number of test springs; the first laser rangefinder which is set on the top of the test board; two sets of wheel frames are respectively erected on both sides of the n-shaped frame slot through a telescopic device, and are driven by the telescopic device to move relative or opposite; the opposite sides of the two sets of wheel frames are provided with grooves along the length direction; several walking wheels which are respectively arranged in the two grooves by rotating shafts; the opposite sides of the two mounting plates are fixedly provided with matching rods; each side of the matching rod passes through a buffer plate, and the buffer plate is respectively fixedly connected with the end of the matching rod on the other side; a second laser rangefinder is fixed on one side of a mounting plate. The device can independently detect the track gauge and the relative height difference between the two rails, and the inspection accuracy is high.

21: 2021/06270. 22: 2021/08/30. 43: 2021/10/08

51: B65B

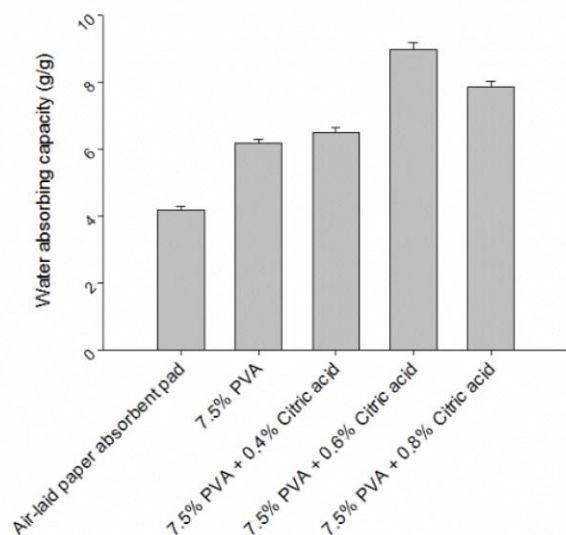
71: Northeast Agricultural University

72: Liu Qian, Kong Baohua, Wang Hao, Han Jianchun, Li Xin, Yu Dong

54: THE PREPARATION METHOD FOR ANTIBACTERIAL WATER-ABSORBING PAD FOR PALLET PACKAGE OF CHILLED MEAT AND ITS APPLICATION

00: -

The invention discloses an antibacterial water-absorbing pad for pallet package of chilled meat and a preparation method thereof, which comprises the following steps: The ethanol solution of clove oil is added into the mixed solution of polyvinyl alcohol and citric acid, evenly stirring, and preparing the polyvinyl alcohol-based antibacterial nanofiber pad by electrostatic spinning technology. Then, the polyvinyl alcohol nanofiber pad is heated to obtain the hydrophobic polyvinyl alcohol antibacterial nanofiber pad. The nanofiber pad prepared according to the invention has higher water absorption and antibacterial property, and its functionality is superior to that of the existing chilled meat absorbent pad, this provides a new idea for food active packaging. In addition, polyvinyl alcohol can be completely degraded, which is an environment-friendly packaging material and accords with the development trend of green ecology. The hydrophobic polyvinyl alcohol-based antibacterial food absorbent pad prepared by the invention can be used in packaging boxes of fresh meat, it can not only improve the sensory characteristics of chilled meat, but also prolong its shelf life.



21: 2021/06271. 22: 2021/08/30. 43: 2021/10/08
51: C12G

71: Qingdao Agricultural University

72: Zhang Yugang, Dai Hongyi, Li Jingyuan, Zhu Jun, Song Jing, Sun Xiaohong, Bai Suhua

54: METHOD FOR BREWING APPLE CIDER WITH RED-FLESH APPLES

00: -

The invention discloses a method for brewing apple cider freshly squeezed fruit juice of red-flesh apples as raw materials, which comprises: sorting and cleaning; juicing; pectinase treatment; fermentation; filter and clarify; malic acid-lactic acid fermentation; filter and clarify; Finished products. The advantage of the invention lies in that the brewed apple cider has a higher content (higher than 1,500 mg/L) of total phenol than the apple cider brewed with apples of white flesh, and it is rich in gallic acid, chlorogenic acid, p-coumaric acid, quercetin, rutin, phloridzin, epicatechin and catechin. The chroma of liquor is determined between 3-5 with the hue larger than 1, it is of ruby red with clear and transparent liquor body and no sediment. With an elegant, fresh apple aroma and harmonious liquor aroma, and a full liquor body, soft taste, the liquor can be widely enjoyable with better health care function. At present, there is no sale of apple cider of red in China's market and no public report on the brewing technology. According to the invention, apples with red-flesh are used as raw materials for brewing apple cider for the first time, which is scientific, reasonable, simple and easy to control, and can

provide technical support for the development and utilization of red-flesh apple resources in China and the production of high-quality apple cider that meets the market demands.

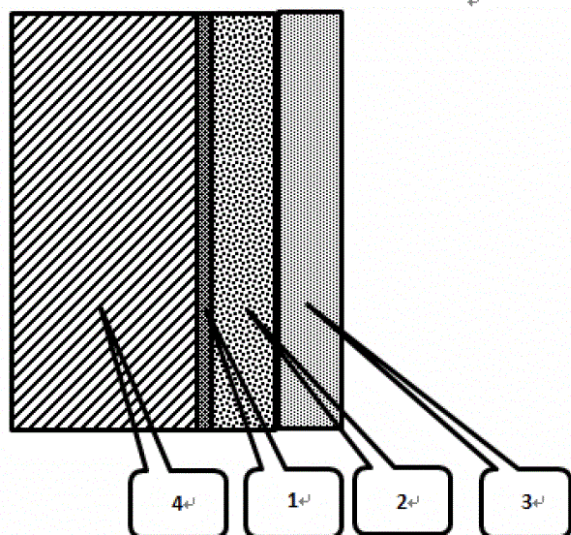
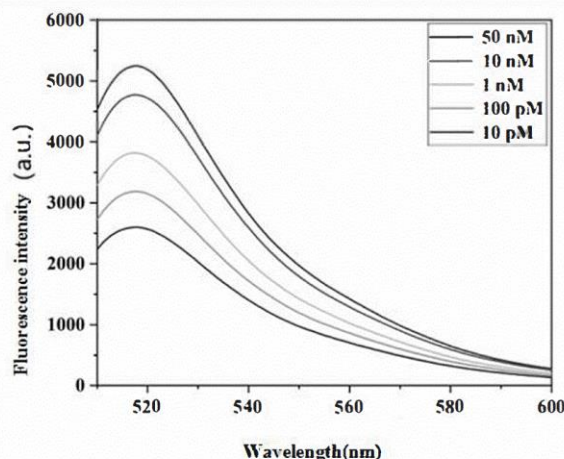
21: 2021/06272. 22: 2021/08/30. 43: 2021/10/08
51: C04B; C09D

71: Shandong Furi Xuanwei New Material Technology Co., Ltd.

72: Li Shaoxiang, Guan Yu, Liu Meng, Li Guangjun, Wang Ziyang, Zhang Kaiyuan

54: THERMAL CONTROL ANTICORROSION, FIREPROOF AND EXPLOSION-PROOF COATING MATERIAL FOR OIL AND GAS STORAGE TANK 00: -

The invention discloses a thermal control anticorrosion, fireproof and explosion-proof coating material for oil and gas storage tank, wherein the coating consists of an anticorrosion bottom layer (1), a heat insulation middle layer (2) and a polyurea heat reflection explosion-proof and flame-retardant surface layer (3); the anticorrosive bottom layer (1) is coated on the tank body (4); then, a heat insulation middle layer (2) and a polyurea heat reflection explosion-proof flame-retardant surface layer (3) are sequentially arranged outward. The thermal control coating for oil and gas storage tanks is a coating material integrating long-term anticorrosion, high thermal barrier, fireproof, explosion-proof, heat reflection and decoration, has good anticorrosion, explosion-proof, heat insulation and fireproof performance, promotes the storage and transportation safety of liquid chemical raw materials and oil and gas, saves energy and develops anticorrosion technology, and simultaneously produces better economic and social benefits.



21: 2021/06273. 22: 2021/08/30. 43: 2021/10/08
51: C12N

71: Tianjin Institute of Environmental and Operational Medicine

72: Gao Zhixian, Wang Yu, Peng Yuan, Han Tie, Li Shuang, Han Dianpeng, Ren Shuyue, Qin Kang

54: METHOD AND KIT FOR DETECTING RICIN BY EXPONENTIAL AMPLIFICATION INITIATED BY RELATIVE DNA WALKER BASED ON FROZEN GOLD NANOPROBES

00: -

The invention belongs to the field of protein toxin detection, and relates to a method and a kit for detecting ricin by exponential amplification initiated by a relative DNA walker based on frozen gold nanoprobe. The method of the invention mainly comprises four processes: synthesis of gold nanoprobe by means of freezing, competition between ricin and gold nanoprobe for binding aptamers, relative DNA walker and exponential amplification reaction. The method and kit of the invention can detect ricin with high sensitivity, good specificity and excellent stability in practical application.

21: 2021/06274. 22: 2021/08/30. 43: 2021/10/08

51: A01B; A01G

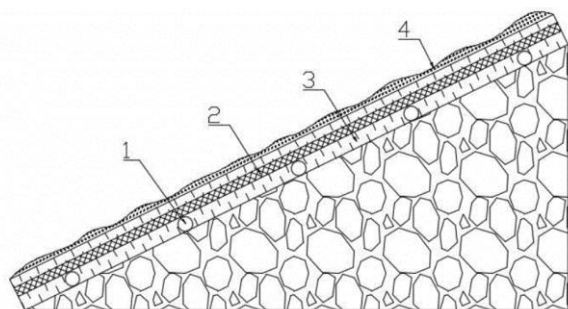
71: Central South University of Forestry and Technology, Hunan 3721 Ecological Protection Co., Ltd.

72: Yang Liuqing, Ran Jinkai, Hu Xuejun

54: ECOLOGICAL RESTORATION STRUCTURE AND METHOD FOR RAPID REGREENING OF SIDE SLOPE OF MOUNTAIN WIND FARM

00: -

The invention discloses an ecological restoration structure and a method for rapid greening of side slope of mountain wind farm. The ecological restoration structure comprises non-woven fabric ribs filled with a cultivation substrate, a fixed net, a substrate soil layer and a regreening layer formed by growth of dormant moss after being back to life. The ecological restoration method comprises original site moss collection and dormancy treatment, original site topsoil collection and drying treatment, soil dressing spray after the dormant moss is mixed with the original site dry topsoil, and the like. According to the ecological restoration structure and method for rapid regreening the side slope of the mountain wind farm, the dormant moss is used for regreening after awakening, and compared with the regreening of seed growth, the survival rate is higher and the growth state is better, so that the ecological regreening effect is greatly improved.



21: 2021/06275. 22: 2021/08/30. 43: 2021/10/08
51: A61K

71: Institute of Animal Science and Veterinary Medicine, Shandong Academy of Agricultural Sciences

72: Ren Sufang, Yu Jiang, Zhang Yuyu, Wu Jiaqiang, Liu Fei, Guo Lihui, Chen Zhi, Sun Wenbo, Zhang Lin, Xu Minli, Liu Yaotao, Hu Xiaoying

54: TRADITIONAL CHINESE MEDICINE PRESCRIPTION FOR IMPROVING ANIMAL SURVIVAL RATE

00: -

The invention relates to a traditional Chinese medicine for clearing away toxin for livestock and poultry in the field of traditional Chinese medicine for livestock and poultry. The traditional Chinese medicine according to the invention is prepared from the following materials in parts by weight: 5-10 parts of *Alisma orientalis*, 5-10 parts of *Polyporus umbellatus*, 5-10 parts of *Poria cocos*, 5-10 parts of *Akebia stem*, 5-8 parts of fried *Coptis chinensis*, 10-20 parts of stir-baked *Fructus Gardeniae*, 15-25 parts of *Forsythia suspensa*, 20-30 parts of root of kudzu vine, 3-8 parts of ginger and 10-15 parts of fresh *Rehmannia glutinosa* and 20-30 parts of *Glycyrrhizae*. The traditional Chinese medicine according to the invention is prepared by the following steps: weighing *Alisma orientalis*, *Polyporus umbellatus*, *Poria cocos*, *Akebia stem*, fried *Coptis chinensis*, stir-baked *Fructus Gardeniae*, *Forsythia suspensa*, fresh *Rehmannia glutinosa* and *Glycyrrhizae*, adding water, decocting, filtering the liquid to make dry extract, and pulverizing the dry extract to obtain powder A; weighing root of kudzu vine and ginger, drying and pulverizing them to obtain powder B; uniformly mixing the powder A and the powder B. Traditional Chinese medicine has little toxic and side effects, does not contain hormones, so meat and eggs can be safely eaten. The effective

ingredients of traditional Chinese medicine are absorbed by the meat first and then by corresponding eaters. Moreover, the invention can enhance the ability of resisting diseases and clearing away toxin of livestock and poultry, reduce the incidence rate of infectious diseases, reduce mortality rate and increase economic benefits.

21: 2021/06278. 22: 2021/08/30. 43: 2021/10/15
51: A01G; C02F

71: ENVIRONMENTAL HORTICULTURE RESEARCH INSTITUTE OF GUANGDONG ACADEMY OF AGRICULTURAL SCIENCES

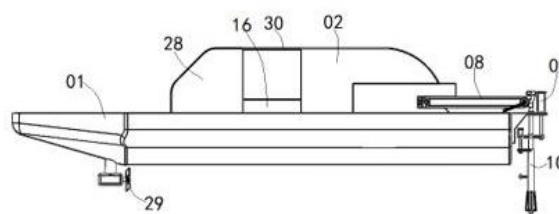
72: QIN, Hongjie, WU, Haoping, ZOU, Chunping, CHEN, Jinfeng, YOU, Yi, WANG, Dairong, YANG, Siyu

33: CN 31: 202110865397.0 32: 2021-07-29

54: A TRANSPLANTING DEVICE FOR SUBMERGED MACROPHYTES

00: -

Disclosed is a transplanting device for submerged macrophytes, comprising a seedling storage cabin, a seedling conveying assembly, a transplanting assembly and a control system. Seedlings in the seedling storage cabin can be conveyed by a conveyor into a seedling receiving hopper; a plurality of ditching teeth can be gathered and spread by stretching and contracting of a telescopic cylinder II; and an underwater distance measuring sensor in the control system is used for measuring a depth between the ditching teeth and a water bottom. The seedling storage cabin and the conveyor are disposed on a working ship, so that the seedlings can be conveyed into the seedling receiving hopper; and the seedling receiving hopper is connected to a conveying pipe, the conveying pipe is sleeved by a casing which is sleeved by a connecting pipe, and the ditching teeth are disposed at one end of the connecting pipe.



21: 2021/06279. 22: 2021/08/30. 43: 2021/09/14

51: G06F

71: HEBEI INSTITUTE OF SCIENCE AND TECHNOLOGY INFORMATION (HEBEI INSTITUTE OF SCIENCE AND TECHNOLOGY INNOVATION STRATEGY)

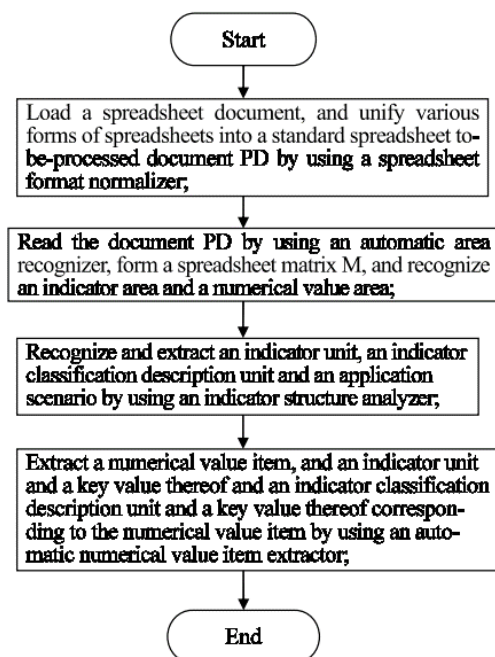
72: LI, Yinsheng, WANG, Hong, ZHANG, Chaozong, WU, Feng, NIE, Yongchuan, REN, Yan, LIU, Miao, ZHANG, Jinlong, CHEN, Juan, ZHANG, Die, JIANG, Qiannan, ZHANG, Cong, GAO, Yuan, GAO, Yinzhen, WU, Pengjie

33: CN 31: 202011365226.3 32: 2020-11-28

54: A METHOD FOR DATA GRANULATION AND INDEX STANDARDIZATION OF SPREADSHEETS

00: -

The invention discloses a method for data granulation and indicator standardization of spreadsheets, comprising the following steps: unifying spreadsheets into a standard spreadsheet to-be-processed document PD by using a spreadsheet format normalizer; reading the to-be-processed document PD by using an automatic area recognizer, forming a spreadsheet matrix M, and recognizing an indicator area and a numerical value area; recursively traversing the indicator area by using an indicator structure analyzer, recognizing and extracting an indicator unit, and storing the indicator unit in an I library; recognizing and extracting an indicator classification description unit, and storing the indicator classification description unit in a C library; recognizing and indicating an application scenario between the indicator unit and the indicator classification description unit, and storing the application scenario in an R library; and extracting a numerical value item by traversing the numerical value area by using an automatic numerical value item extractor, and at the same time, storing the abscissa and ordinate, an indicator unit key value and an indicator classification description unit key value corresponding to the numerical value item in a D library.



21: 2021/06280. 22: 2021/08/30. 43: 2021/10/08

51: C12Q

71: DR. SONIA JAIN, DR. ANIL KUMAR PANDEY

72: DR. SONIA JAIN, DR. ANIL KUMAR PANDEY

33: IN 31: 202131039179 32: 2021-08-30

54: MAZEF TOXIN-ANTITOXIN SYSTEM

00: -

The present invention relates to the construction of Construction of mazEF system for development of anti-bacterial agents. Strains resistant to multiple classes of antibiotics have emerged in the past several decades. Drugs like Vancomycin and Daptomycin has been long considered the last line of defense against infection by multidrug-resistant *S. aureus*. Therefore, we have entered an era in which it has become necessary to discover novel targets to which therapeutic strategies can be developed. MazEF system can be one of those novel target The constructed mazE mutants by these system confirming the changed phenotypic expression of glycopeptide resistance , and gene, responsible for methicillin resistance was found to be upregulated in case of the mazE mutants (8 fold upregulation for mazE mutant) when compared to WT P-1780.

21: 2021/06320. 22: 2021/08/30. 43: 2021/10/08

51: G09G

71: NANJING PANENG TECHNOLOGY DEVELOPMENT CO., LTD.

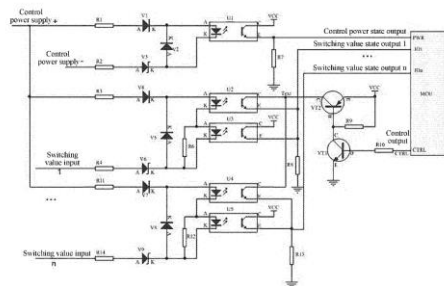
72: PANG, Jiyao, LU, Huajun

33: CN 31: 202010855663.7 32: 2020-08-24

54: SWITCHING VALUE ACQUISITION CIRCUIT AND METHOD

00: -

The present invention discloses a switching value acquisition circuit and method. The circuit includes a control power state detection loop, an MCU signal acquisition control loop, and a switching value acquisition loop; the switching value acquisition loop including a main acquisition optocoupler and an auxiliary acquisition optocoupler; and the MCU signal acquisition control loop is configured to, in response to a level signal detected by the control power state detection loop, control the auxiliary acquisition optocoupler to be disconnected to acquire a switching value signal only through the main acquisition optocoupler, or control the auxiliary acquisition optocoupler and the main acquisition optocoupler to be enabled to jointly acquire a switching value signal. A group of optocouplers can be outputted or two groups of optocouplers can be outputted in parallel according to different control power voltage levels.

21: 2021/06321. 22: 2021/08/30. 43: 2021/10/08
51: G06F71: NANJING PANENG TECHNOLOGY
DEVELOPMENT CO., LTD.

72: PANG, Jiyao

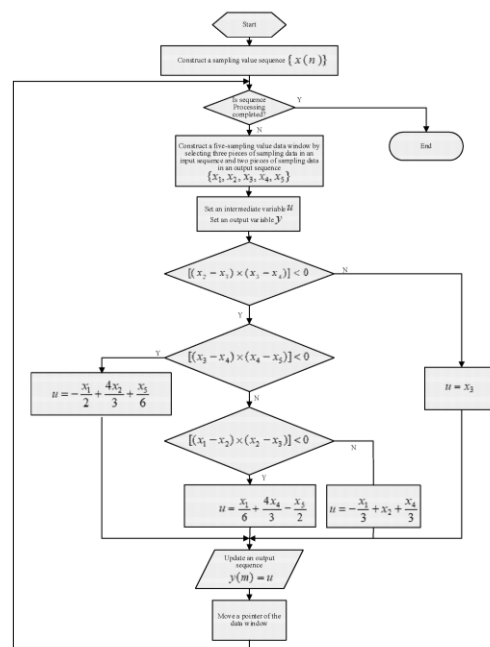
33: CN 31: 202010825283.9 32: 2020-08-17

**54: METHOD AND APPARATUS FOR REPAIRING
ABNORMAL VALUE OF SAMPLING DATA**

00: -

The present invention discloses a method for repairing an abnormal value of sampling data, including: constructing a data window by selecting sampling data in an original sampling value sequence and in combination with sampling data in a repaired output sequence; performing abnormal

data identification on the sampling data in the data window according to the principle of function extremum; and repairing suspected abnormal data in combination with the sampling data in the data window, thereby weeding out the abnormal data of sampling. The present invention has advantages such as simple and easy implementation, short delay, high repair precision, no need to calculate a threshold value and low computational amount, and has good application prospects.

21: 2021/06335. 22: 2021/08/31. 43: 2021/10/08
51: C08B

71: Shandong Agricultural University

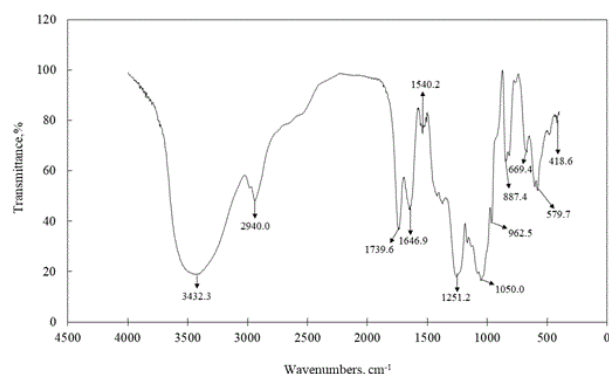
72: Zhang Guiguo, Lee Yunkyoung

**54: LONG CHAIN ALGAL POLYSACCHARIDE
AND METHOD FOR SEPARATION AND
PURIFICATION THEREOF**

00: -

The invention discloses a long chain algal polysaccharide and a method for separation and purification thereof, which relates to that technical field of biology. The long chain algal polysaccharide obtained comprises 176 monosaccharide molecules, and consists Fuc, Rha, Ara, Gal, Glc, Xyl, Man, Fru, Rib, GalA, GluA, GlcA and ManA in a molar ratio of 35.71: 1.48: 0.28: 13.16: 0.55: 2.97: 6.92: 0.58: 0.41: 0.14: 3.16: 15.84: 18.79, it has a weight average molecular weight (Mw) of 5.79*10⁴ g/mol. Being

prepared by a method of water extraction-ethanol precipitation-dialysis, the long chain algal polysaccharide shows biphasic immunomodulatory effect and anti-inflammatory ability which can be developed into a functional food with potential for immune-enhancing and anti-inflammatory.



21: 2021/06364. 22: 2021/09/01. 43: 2021/10/08
51: G01R

71: Shenyang University of Technology

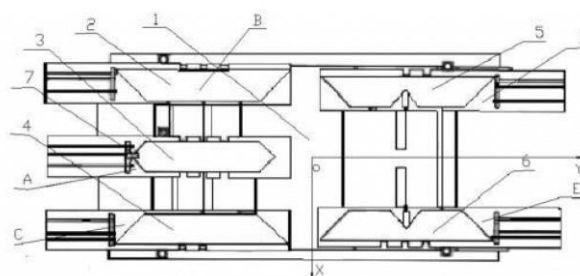
72: Liu Weiwei, Wang Shiya, Wu Yao, Wang Shengnan, Ding Zijian, Wang Chenyu, Wang Lei

54: A CONTROL METHOD AND DEVICE FOR PRECISE POSITIONING OF IRON CORE SILICON STEEL SHEET OF TRANSFORMER

00: -

This invention provides a control method and device for precise positioning of iron core silicon steel sheet of transformer. Five sets of numerical control cross slides are installed on the positioning platform, and each set of numerical control cross slides comprises an upper and a lower platform, and each platform comprises a servo motor, a driving screw, a slider and a guide rail; The device has the following advantages: 1. The positioning platform mechanism is suitable for a wide range of transformer capacity: 50KVA-2500KVA. 2. The positioning platform mechanism has high flexibility. 3. The positioning platform mechanism has a wide application range of iron core silicon steel sheet of transformer: the sheet width can vary from 40mm to 300mm, and the sheet length can vary from 350 mm to 1700mm. 4. The positioning platform mechanism can carry out image recognition on the center column, automatically stop the machine when the sheet is selected incorrectly, and automate the production process, thus effectively ensuring the lamination quality and efficiency of the transformer core, preventing manual

disassembly caused by lamination errors, and realizing continuous and stable production. 5. The positioning platform has reliable structure, mature technology and convenient maintenance. 6. The positioning platform mechanism has high positioning precision: It can be changed from 0.02 mm to 0.04 mm.



21: 2021/06365. 22: 2021/09/01. 43: 2021/10/08
51: B25J

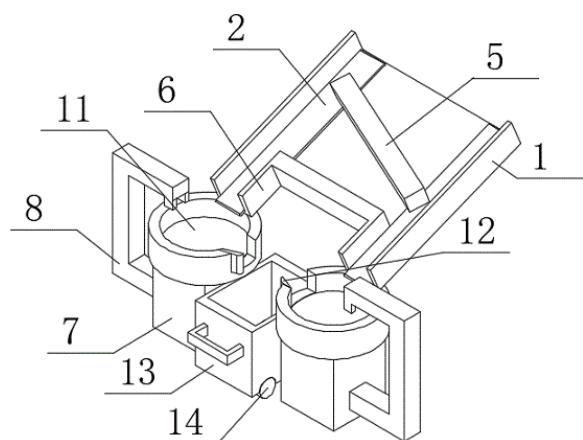
71: SUZHOU YANKEXING INTELLIGENT TECHNOLOGY CO., LTD.

72: WEN, Gaosen, LI, Shenghong, ZENG, Jingxia, LI, Guohui

54: INTELLIGENT WORK PIECE SORTING DEVICE BY ROBOT

00: -

The present invention relates to the technical field of mechanical automation, in particular to an intelligent work piece sorting device by robot, comprising a feeding frame, wherein top portions of the feeding frame are fixedly connected with conveyer belts, at a bottom of the feeding frame is fixedly connected to a mounting rack, inside the mounting rack is fixedly connected a drive motor, an output shaft of the drive motor is fixedly installed with a guide block, both ends of the feeding frame are fixedly connected with feeding chutes, and bottom portions of the feeding chutes are provided with sorting racks. The present invention has following advantages: in the intelligent work piece sorting device by robot, the guide block is arranged to be inclined so that work pieces at the top of the feeding frame are guided to slide along an inclined direction of the guide block, the drive motor rotates to change the inclined direction of the guide block so that the guide block can intermittently guide work pieces to the feed chutes at both ends, and thereby the present invention can effectively increase the distance between work pieces, reduce difficulty of sorting work pieces, and facilitate sorting of the work pieces.



21: 2021/06366. 22: 2021/09/01. 43: 2021/10/08
51: B23Q

71: Shenyang University of Technology

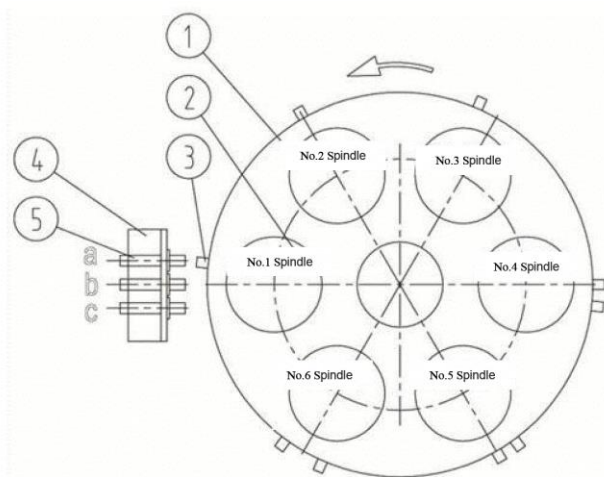
72: Liu Weiwei, Wu Yao, Wang Shengnan, Wang Shiya, Chen Yuqing, Nie Yue, Wang Lei

54: COMPENSATION AND DEVICE FOR INCONSISTENT CUTTING ACCURACY OF MULTI-STATION MACHINE TOOL

00: -

This invention provides compensation and device for inconsistent cutting accuracy of multi-station machine tool, whose method is described as following: Add spindle identification device on multi-station machine tool, compile spindle position identification coding table, and change tool holder of each station into numerical control tool holder. Carry out actual trial cutting on the machining accuracy of each station, find out the original manufacturing error of the machine tool, and form the tool compensation data table. When the machine tool works, the main shaft of the machine tool turns to a certain station, the numerical control system first finds the cutting position of the main shaft according to the spindle identification code table, then extracts the compensation value from the tool compensation data table, corrects the tool position and runs the machining program to compensate the spindle error. The device consists of a spindle position identification device of a multi-axis automatic machine tool, a cutter compensation data table and a numerical control cutter driving device. By controlling the cutter to compensate the spindle error, the invention not only retains the original function of the lathe, but also improves the accuracy

of the processed workpiece and shortens the production cycle.



21: 2021/06367. 22: 2021/09/01. 43: 2021/10/08
51: A01K

71: Qingdao Agricultural University

72: Wu ShuaiCheng, Zhang QiDi, Wang Xin

54: FEED ADDITIVE CAPABLE OF IMPROVING MEAT FLAVOR AND PREPARATION METHOD THEREOF

00: -

The invention discloses feed additive consisting of a traditional Chinese medicine composition, flavoring agent and auxiliary materials and its preparation method thereof. The feed additive prepared according to the method of the invention is added into livestock feed for feeding meat livestock, which effectively improves the meat flavor and taste of livestock as in change the meat to be juicier and tenderer. The feed additive provided by the invention is green, natural and environment-friendly, has no chemical drug residue, and does not generate drug resistance to animal bodies. Traditional Chinese medicine components in the feed additive can supplement nutrition and a large amount of natural active ingredients such as vitamins, amino acids, trace elements for livestock and poultry. Traditional Chinese medicine composition formed by compatibility according to the principle of traditional Chinese medicine can reduce toxic and side effects of medicines, realize bidirectional regulation, restore and regulate functions of livestock and poultry, and improve disease resistance of livestock and poultry.

21: 2021/06368. 22: 2021/09/01. 43: 2021/10/08
51: G06Q

71: Zhengzhou University of Aeronautics

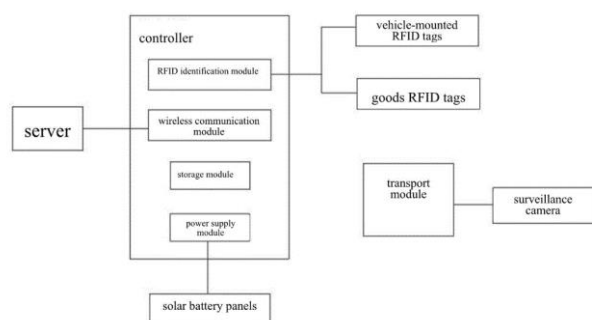
72: Yu Juan, Lu Hongqi, Shi Liping, Xie Benkai, Luo Yuying

33: CN 31: 202110915366.1 32: 2021-08-10

54: THE RFID LOGISTICS MANAGEMENT SYSTEM

00: -

The invention discloses an RFID logistics management system, which includes controller, server, vehicle-mounted RFID tags, goods RFID tags, and transportation module, the controller is provided with RFID identification module, wireless communication module, storage module and power supply module, the RFID identification module identifies the information of the vehicle-mounted RFID tags and the goods RFID tags, the controller exchanges information with the server through the wireless communication module, the invention has the following advantages: reasonable design, strong operability, it can meet the basic needs of business modernization and information transformation, complete statistics and rapid feedback of logistics and warehousing data, and it has greater economic and social benefits.



21: 2021/06371. 22: 2021/09/01. 43: 2021/10/08
51: B65G

71: Shanghai Maritime University

72: Chengji Liang, Xiaoyuan Hu, Daofang Chang, Yinping Gao, Houjun Lu, Yu Wang, Yang Pan, Yue Zhang

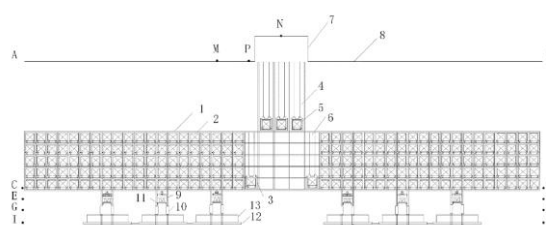
33: CN 31: CN202010655494.2 32: 2020-07-09

54: AN UNDERGROUND HANDLING SYSTEM AND ITS LAYOUT METHOD FOR UNDERGROUND CONTAINER LOGISTICS

00: -

The invention discloses an underground handling system for underground container logistics,

comprising: an underground shelf storage yard, an underground handling area and an underground buffer zone. The underground shelf storage yard comprises the container elevator, the underground channel and the flat vehicle to realize the vertical and horizontal transportation of containers in the underground storage yard. The underground handling area is employed to connect the underground channel and the underground shelf storage yard. According to the handling process of the empty rail crane, the automatic handling of containers in the underground channel is carried out. Each underground handling area is equipped with some fixed empty rails, and each empty rail is equipped with one empty rail crane to complete the loading and unloading operation of containers together with underground transportation equipment and flat vehicle. The underground buffer zone has multiple buffer channels for temporary parking of underground transportation equipment.



21: 2021/06404. 22: 2021/09/02. 43: 2021/10/07
51: A61H

71: Affiliated Hospital of YouJiang Medical University for Nationalities

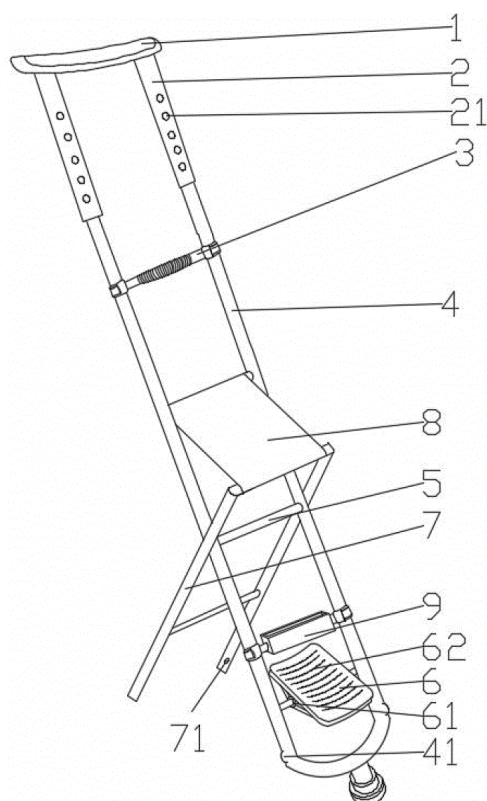
72: Huang Cuimai, Wang Jianyuan, Li Yanfei, Liang Liandan, He Yinlian

54: CRUTCH FOR REHABILITATION CARE

00: -

The utility model relates to the technical field of medical instruments and discloses a crutch for rehabilitation care, which comprises a supporting part, an handrail part, a turnover plate, a connecting part, an non-slip mat, two sliding rods, two supporting rods and a plurality of cross bars, wherein the bottom of the supporting part is fixedly connected with the upper end of the sliding rod; the sliding rod is sleeved on the upper end of the supporting rod; the handrail part is slidably connected with the supporting rod; a plurality of cross bars are transversely fixedly arranged between the two supporting rods; any cross bar is

rotatably connected with the turnover plate, and the bottom ends of the two supporting rods are fixedly connected with connecting part; the lower end of the connecting part is fixed with a non-slip mat. In the utility model, the turnover plate is arranged on the cross bar of the crutch, so that the symptoms of ankle joint injury are mild, or the patients at the later stage of treatment turn their ankles by using the turnover plate, which is beneficial to improving the ankle treatment effect.



21: 2021/06405. 22: 2021/09/02. 43: 2021/10/08
51: G06F

71: Qingdao Agricultural University

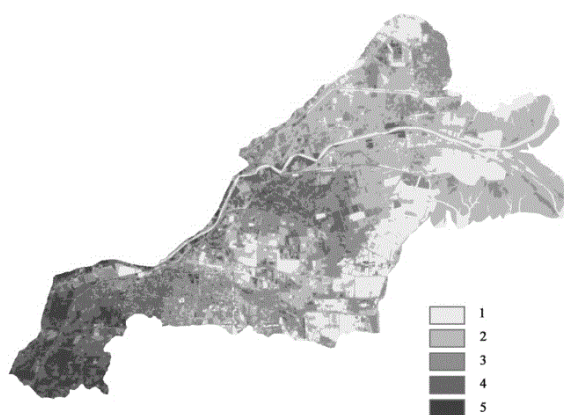
72: ZHANG, Xiaoguang, GUO, Zhiqian

54: SOIL SALINITY AT YELLOW RIVER DELTA INVERSION METHOD BASED ON LANDSAT 8

00: -

The present invention provides a soil salinity at Yellow River Delta inversion method based on Landsat 8, with the following steps: S1: collecting and acquiring soil salinity data; S2: getting and processing of remote sensing image data; S3: extracting and calculating reflectivity data of bands of Landsat 8 images; S4: conducting corresponding

$\lg(R)$, $1/R$ transformation to each band and analyzing remote sensing reflectivity and remote sensing reflectivity after transformation and soil salt content to get a preliminary list of sensitive bands; S5: carrying out a multivariate linear regression analysis to reflectance of each band after $\lg(R)$ and $1/g$ transformation and soil salt content acquired in step S1, and establishing a model; S6: applying an optimal prediction model established in the above-mentioned method to Landsat 8 remote sensing images of a research region Yellow River Delta to get a Landsat 8 soil salinity remote sensing inversion image.



21: 2021/06407. 22: 2021/09/02. 43: 2021/10/07
51: C02F

71: Xi'an Jinshan Yinshan Technology Co., Ltd.

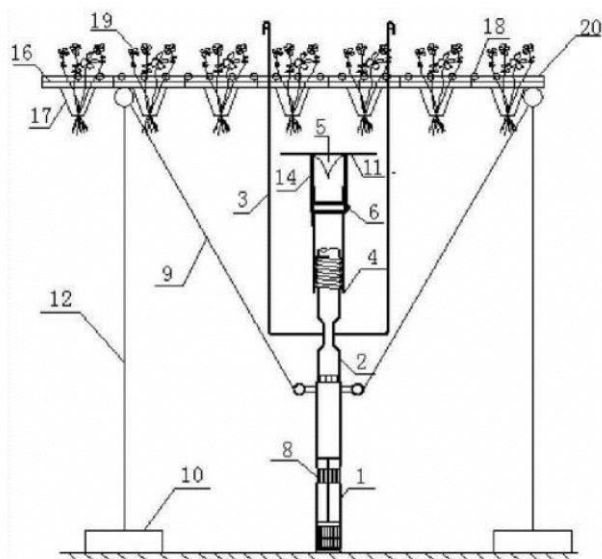
72: Tang Xiao, Sun Xin, Shi Qingqing, Ma Yihua, Chai Duosheng

54: ARTIFICIAL FLOATING ISLAND INTEGRATED WITH WATER PURIFICATION AND LIGHTING SYSTEMS

00: -

The invention discloses artificial floating island integrated with water purification and lighting systems, which comprises mixing oxygenation system, artificial floating island system and lighting system. The artificial floating island system includes floating body, PVC reinforced pipe, planting basin and floating island plants. The floating body adopts various shapes based on circle, and a variety of aquatic plants are planted in the middle and outer edge of the floating body to purify water. The mixing oxygenation system uses solar power generation device to supply power, it promotes water circulation through water pump lifting, and sucks air at the

reducing pipe to oxygenate the water body through Venturi principle, which forms a synergistic pollution removal effect with the artificial floating island. The lighting system includes waterproof LED light strings with various shapes and colors. The light strings are arranged in the floating island according to local conditions. Illuminating the floating island plants at night can enhance the water purification performance of the plants. The system can operate in a green and low-carbon manner that can economically and effectively improve the water quality of rivers, lakes and reservoirs in situ without power consumption, control the eutrophication of water bodies, furthermore, it can illuminate urban water environments over night.



21: 2021/06408. 22: 2021/09/02. 43: 2021/10/07
51: C12M

71: Qingdao Agricultural University

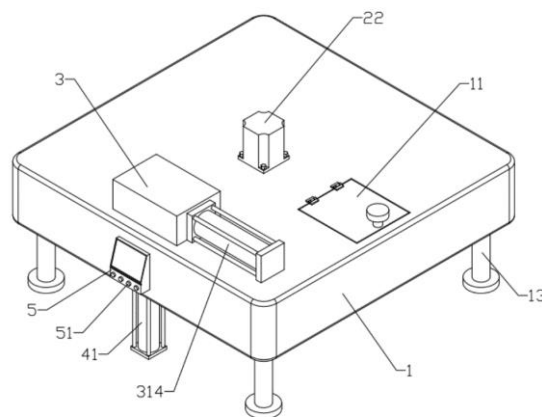
72: Huatao Li, Zhongling Jiang, Wenru Tian

54: AN INTEGRATED DEVICE FOR EMBRYO CULTURE AND OPERATION

00: -

The invention discloses an integrated device for embryo culture and operation, including an incubator, which is provided with a temperature control module and a gas control module; a tray is rotated in the incubator, and a plurality of petri dish placing slots are arranged on the tray at a circular equal spacing; the tray is connected with a driving mechanism; the top of the incubator is provided with an arch tube with one end open, and a slider is

arranged in the arch tube, and a petri dish cover placing slot is arranged on the slider. The invention has the characteristic that the gas concentration is not changed during cultivation and operation.



21: 2021/06409. 22: 2021/09/02. 43: 2021/10/07

51: A61F

71: Quzhou People's Hospital

72: Xiaoyang Li, Mengmeng Zhou, Wei Lu, Guobing Cheng, Sheng Liao, Jiawen Wu, Senyan Wu, Qiang Hu

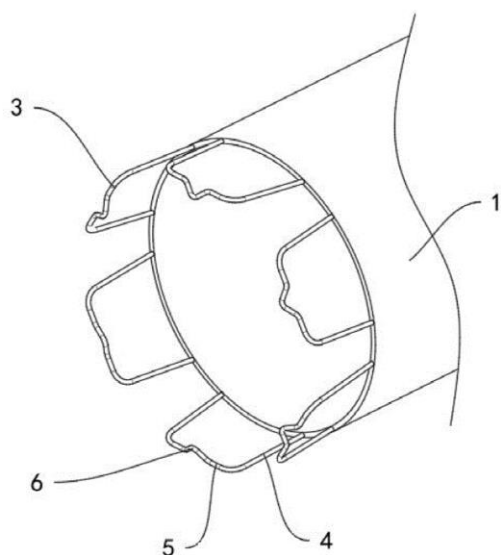
33: CN 31: 202023152813.2 32: 2020-12-24

54: THORACIC AORTA COVERED STENT WHICH IS CONVENIENT FOR POSITIONING

00: -

The invention discloses a thoracic aorta covered stent which is convenient for positioning, comprising a cover, which is constructed into a tubular shape; a first stent, which is mounted on the perimeter wall of the cover; a second stent, which is arranged at one end of the cover in the axial direction, wherein multiple second stents are set in the circumferential direction of the cover, and the second stent is strip structure; the second stent including two connecting parts, a supporting part and a mounting part; two connecting parts are set relatively and respectively connected with the cover; the supporting part between the two connecting parts is suitable for supporting on the arterial wall; the middle part of the supporting part is protruding towards the direction near the central axis of the cover to form the mounting part, and the mounting part is suitable for connecting with the conveying device. This invention can improve the contact area with the arterial wall, on the one hand, to reduce the pressure on the arterial wall to avoid puncturing the aortic intima, on

the other hand, to improve the friction between the second stent and the aortic wall, and improve the positioning effect.



21: 2021/06411. 22: 2021/09/02. 43: 2021/10/07
51: A01C; A01G

71: Institute of Agricultural Machinery of Chinese Academy of Tropical Agricultural Sciences, Zhanjiang Yiwu Agricultural Technology Co., Ltd.
72: Yuan Zhang, Lijiao Wei, Long Zhang, Peng Zhang, Jian Liu

54: MANUAL AND REMOTE CONTROL DUAL-PURPOSE CONTROL SYSTEM AND OPERATION METHOD SUITABLE FOR DISCHARGING AND CONTROLLING PARTICULATE MATERIALS FOR AGRICULTURAL VEHICLE

00: -

The invention relates to a manual and remote control dual-purpose control system suitable for discharging and controlling particulate materials for agricultural vehicles and an operation method thereof, which is characterized by comprising a particulate material discharging mechanism, a control device, a master electric control unit, a slave electric control unit, an accelerator execution unit, a clutch execution unit, a gear selection execution unit, a gear pushing execution unit and a display screen. The control device comprises a gearbox, a mobile terminal, a central processing unit and a plurality of control valves; the particulate material discharging mechanism consists of a quantitative discharging sheave and a speed regulating system; when the

discharging capacity of the sheave is fixed, the central processing unit controls the speed regulating motor to start to realize the actions of rotating the sheave and discharging control of particulate materials; and by changing the rotating speed of the sheave, the precise discharging control of particulate materials is realized. The invention has the beneficial effects that the defect that the existing agricultural vehicle for particulate material discharging control cannot perform manual and remote dual-purpose discharge operation is effectively solved, and the whole vehicle has better particulate material discharging control performance.

21: 2021/06412. 22: 2021/09/02. 43: 2021/10/07
51: B65G

71: Zhengzhou Research Institute of Mechanical Engineering Co., Ltd.

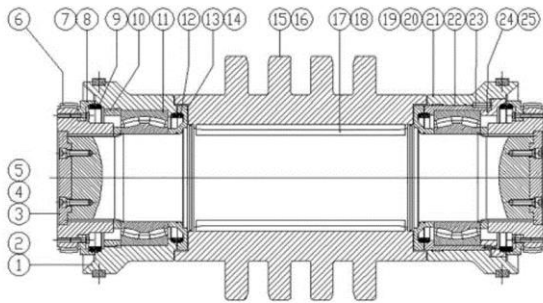
72: Xuechuan Fu, Hongsheng Zhai, Yingjie Xu, Guangchao Jing, Hongke Chen

54: NOVEL SPLIT-TYPE SPROCKET SHAFT ASSEMBLY OF HIGH-POWER SCRAPER

00: -

The invention disclose a novel split-type sprocket shaft assembly of high-power scraper, which comprises a sprocket component, wherein that sprocket component comprises an upper sprocket body, a lower sprocket body, a coupling screw, a cylindrical pin and a setscrew; the upper sprocket body and the lower sprocket body are connected in a box by a coupling screw; a cylindrical pin is arranged between the upper sprocket body and the lower sprocket body to transmit torque, and the cylindrical pin is fixed on the sprocket shaft assembly by the setscrew; the coupling screw is perpendicular to the cylindrical pin in different planes. According to the invention, through the innovative design of the split-type sprocket structure and connection mode, the connection reliability of the split-type sprocket is guaranteed under the conditions of limited installation space, complete interchangeability and limited number of connecting bolts. When reversing or replacing the sprocket, only the connecting bolts and cylindrical pins need to be removed, and the upper and lower sprocket bodies can be pushed out and reinstalled. When replacing the sprocket ring, only the old sprocket ring can be removed and then the new sprocket ring can be installed, thus saving a large number of spare parts

and resources, which is in line with the strategy of building a conservation-oriented society.



21: 2021/06417. 22: 2021/09/02. 43: 2021/10/07
51: G01H

71: Anhui University of Science and Technology

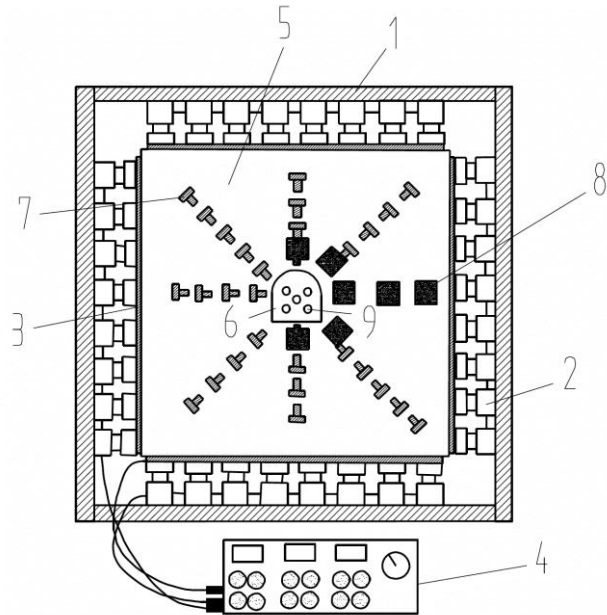
72: MA, Qinyong, SU, Qingqing, YUAN, Pu

33: CN 31: 202011249459.7 32: 2020-11-10

54: IMPROVED SYSTEM OF MONITORING VIBRATION OF A BLASTING MODEL TEST FOR A JOINTED ROCK MASS AND METHOD

00: -

The present disclosure belongs to the field of blasting theory and technology, and deep rock mechanics. An improved system of monitoring vibration of a blasting model test for a jointed rock mass and a method are provided. The system includes: a loading subsystem for three-way load, a model-surface blasting-vibration acquisition subsystem, and a model-interior dynamic stress-strain acquisition subsystem. The system and the method are provided, and a blasting model for a transparent jointed rock mass and a monitoring method that are obtained can analyze the influence of a joint inclination angle on propagation and attenuation laws of blasting stress waves in the jointed rock mass, and can analyze the influence of different millisecond blasting modes on the stability of an existing tunnel in the jointed rock mass, and can capture a real-time dynamic evolution process of cracks. The stress and strain measurement technologies used can perform omnibearing monitoring and recording for large deformations of surrounding rock under blasting load, and can resist the electromagnetic interference, thereby making the test data more reliable and truer.



21: 2021/06445. 22: 2021/09/03. 43: 2021/09/17
51: A01M

71: China University of Mining and Technology

72: ZHAO, Yindi, CHEN, Enhui

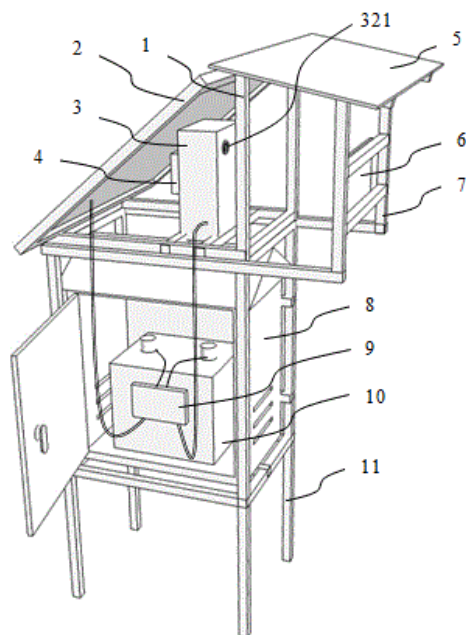
33: CN 31: 202010920283.7 32: 2020-09-04

54: AUTOMATIC MONITORING DEVICE FOR PEST STICKY BOARD BASED ON MONITORING MOBILE PHONE

00: -

The present invention provides an automatic monitoring device for pest sticky board based on mobile phone, including a monitoring mobile phone, an intelligent control box, a solar-cell panel, a pest sticky board, and a distribution box. The automatic monitoring device further includes the solar-cell panel bracket, the pest sticky board bracket, and the distribution box bracket for fixing the above components. The monitoring mobile phone is placed in the intelligent control box, and the intelligent control box is placed inside the solar-cell panel bracket. The intelligent control box is internally provided with a semiconductor cooler and a temperature-controlled switch that are used for automatically controlling the temperature in the intelligent control box. The intelligent control box is also internally provided with a single chip microcomputer, a transformer, a Bluetooth module, and a relay that are configured to automatically charge the monitoring mobile phone. The monitoring mobile phone takes a picture of the pest sticky board through the photographing hole on the side of the

intelligent control box and sends the picture to the server through the wireless network. The automatic monitoring device provided by the present invention can solve the failure of long-term stable operation of the automatic monitoring system resulted from the overheating or overcharging of the monitoring mobile phone.



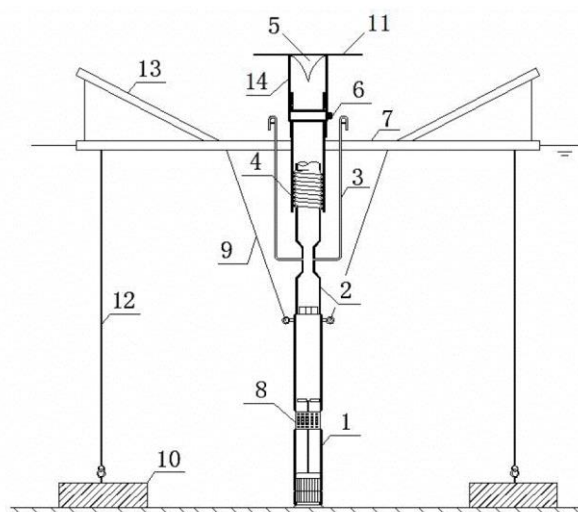
21: 2021/06446. 22: 2021/09/03. 43: 2021/09/17
51: C02F
71: Nanjing JumpingWater Environment Technology Co., Ltd.
72: Sun Xin, Gong Ming, Shi Qingqing, Ma Yihua, Chai Duosheng

54: MIXING OXYGENATION DEVICE FOR WATER QUALITY IMPROVEMENT BASED ON SOLAR ENERGY

00: -

This invention discloses a mixing oxygenation device for water quality improvement based on solar energy, which comprises water pump system, water flow ascending system, Venturi air intake system, floating body and anchoring pier. The floating body is used for floating on the water surface, and the anchoring pier is arranged at the bottom of the water body and connected with the floating body. The water pump system comprises a solar power generation device arranged on the floating body and a water pump arranged in water, and the solar power generation device is used for supplying power to the water pump. The Venturi air intake system

comprises a longitudinally arranged Venturi pipe with both ends open, and a plurality of air intake pipes communicated with the throat of the Venturi pipe, wherein the inlets of the air intake pipes are positioned above the water surface. The water flow ascending system runs through the floating body in the longitudinal direction, and its bottom is connected with the upper straight tube of the Venturi pipe, and the bottom of the lower straight tube of the Venturi pipe is communicated with the water inlet of the water pump. The method can operate in a green and low-carbon manner, and can improve the water quality of shallow rivers, lakes and reservoirs in situ and control the eutrophication of water bodies economically, efficiently and without power consumption.



21: 2021/06451. 22: 2021/09/03. 43: 2021/09/17
51: F17D

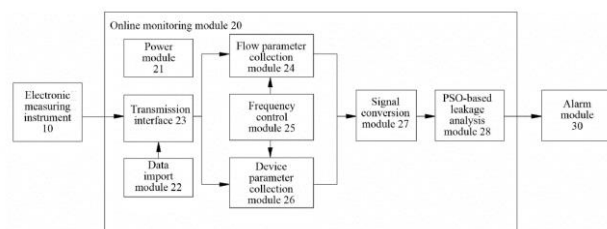
71: Hebei University of Engineering
72: Lixin HE, Binjian LI, Zheng ZHANG, Jiqun ZHANG, TAO DU, ANQI ZHANG

54: PIPE LEAKAGE MONITORING, POSITIONING, AND ALARM SYSTEM

00: -

The present disclosure relates to the technical field of water saving, and specifically, to a pipe leakage monitoring, positioning, and alarm system. The system includes an electronic measuring instrument installed on a pipe and an online monitoring module connected to the electronic measuring instrument, where the online monitoring module is connected to an alarm module, and the electronic measuring instrument measures a flow of the pipe in real time.

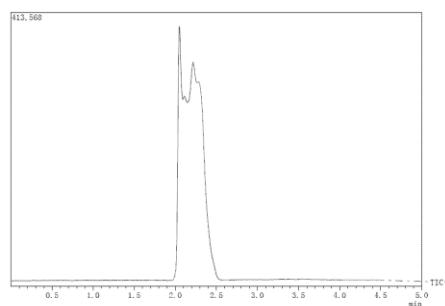
In the present disclosure, the flow of the pipe can be monitored in real time, a theoretical water head line and an actual water head line are drawn based on specific data of the pipe, and curve fitting is performed by using a PSO algorithm, to recognize a pipe section with a large energy loss. If a ratio of an energy loss value to a theoretical water head exceeds a specified allowable maximum leakage rate, it is determined that a pipe leakage occurs, and the leakage is positioned immediately, and an alarm is given.



21: 2021/06455. 22: 2021/09/03. 43: 2021/09/17
 51: G01N
 71: PLANT PROTECTION RESEARCH INSTITUTE
 GUANGDONG ACADEMY OF AGRICULTURAL
 SCIENCES
 72: WANG, Siwei, SUN, Haibin, WANG, Xiaonan,
 CHANG, Hong, LIU, Yanping
 33: CN 31: 202110199282.2 32: 2021-02-22
**54: METHOD FOR DETERMINING
 QUEBRACHITOL CONTENT BY HIGH-
 PERFORMANCE LIQUID CHROMATOGRAPHY-
 MASS SPECTROMETRY**

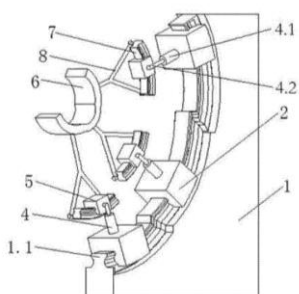
00: -

Disclosed is a method for determining quebrachitol content by high-performance liquid chromatography-mass spectrometry. The high-performance liquid chromatography-mass spectrometry is performed with an amino column. The isolation of quebrachitol with higher column efficiency is realized, by carrying out the chromatography with an amino column through a gradient elution with water and acetonitrile of different ratios. The method for determining the quebrachitol content by high-performance liquid chromatography-mass spectrometry is simple, rapid and efficient in the quantification and qualification of quebrachitol with improved detection sensitivity, and exhibits an excellent linearity in the concentration range of 0.005-1 mg/L with a linear correlation coefficient of 0.9993, good peak shapes, and high spike recovery.



21: 2021/06458. 22: 2021/09/03. 43: 2021/09/17
 51: B25J
 71: SHANDONG UNIVERSITY OF TECHNOLOGY
 72: GONG, Jinliang, ZHANG, Yanfei, LAN, Yubin,
 WANG, Wei
 33: CN 31: 202110038358.3 32: 2021-01-12
**54: DOUBLE-LAYER THREE-SECTION GUIDE
 RAIL PLANAR ROBOT WITH TELESCOPIC ROD**
 00: -

A double-layer three-section guide rail planar robot with a telescopic rod includes a fixed platform, a moving platform, and three branch chains which are connected between the fixed platform and the moving platform and have the same structure. Three planar curved guide rails I are disposed on the fixed platform. Three planar curved guide rails II are fixedly connected to the moving platform. Each planar curved guide rail I is connected to a corresponding planar curved guide rail II by one branch chain. Each branch chain includes a sliding block I, a telescopic rod, and a sliding block II. The sliding block I is slidably connected to the planar curved guide rail I. The sliding block I is fixedly connected to one end of the telescopic rod, and the other end of the telescopic rod is fixedly connected to the sliding block II.



21: 2021/06459. 22: 2021/09/03. 43: 2021/09/17
51: A23B; A23L

71: Fruit Research Institute, Fujian Academy of Agricultural Sciences

72: ZHOU, Danrong, YE, Xinfu, LIN, Yanjuan, FANG, Zhizhen, CHEN, Wenguang, LIANG, Huadi
33: CN 31: 202110371039.4 32: 2021-04-07

54: PROCESS FOR PRODUCING FROZEN PLUM SLICES

00: -

The disclosure is related to the field of food technology, and in particular, to a process for producing frozen plum slices, comprising: sectioning pitted fresh plums into slices, and subjecting the plum slices to blanching, soaking in an aqueous salt solution, pre-freezing, and vacuum freeze-drying. The process enables various nutritional components in fresh plums to be maximally retained and the produced plum slices to have an extended shelf life. With the process, the diversified needs of consumers for plum products are met, and crisp frozen plum slices are produced. The produced frozen plum slices contain no additive including preservative, and are thus very safe. The frozen plum slices also have a bright color and taste smooth.



21: 2021/06488. 22: 2021/09/02. 43: 2021/10/07
51: E04B; E04C

71: Hunan City University

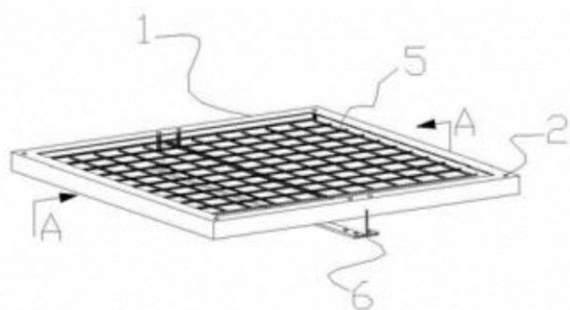
72: Zhang Zaihua

54: FABRICATED STEEL-CONCRETE COMPOSITE FLOOR SLAB AND AN ASSEMBLY CONNECTION METHOD THEREOF

00: -

The invention belongs to the field of building structures, and discloses a fabricated steel-concrete composite floor slab and an assembly connection method thereof, the four corners and the middle of the channel-section steel frame are provided with a first assembly connection hole; an inverted T-shaped plate rib connection slot is opened in the middle of the channel-section steel frame; an inverted T-shaped steel plate rib is welded in the connection groove of the inverted T-shaped plate rib; the number of connecting slots and inverted T-shaped plate ribs can be one or more; the lower flange of the inverted T-shaped steel plate rib is provided with multiple second assembly connection holes; the channel-section steel frame is respectively provided with a first assembly connection piece and a second assembly connection piece on the upper and lower sides of the connection slot corresponding to the inverted T-shaped plate rib; the channel-section steel frame is respectively provided with third assembly connecting pieces on the upper and lower sides of the position where there is no inverted T-shaped plate rib connecting the slot but the first assembly connection hole is provided. The present invention changes the combination mode of steel and concrete slabs, so as to realize the assembly connection of the floor system, and greatly improves

the degree of industrialization, the floor structure can also be disassembled and reused.



21: 2021/06489. 22: 2021/09/02. 43: 2021/10/07
51: C23C

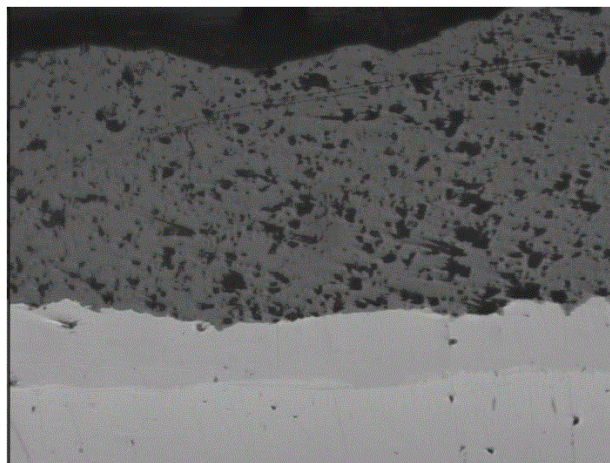
71: Chinese Academy of Agricultural Mechanization Sciences, Qingdao Institute of Intelligent Navigation and Control

72: Zhan Hua, Wang Ruijun, Ma Xiaobin, Lv Mingli, Li Zhendong, Zhu Ganluo, Wang Yiqi

54: COMPOSITE COATING OF TITANIUM ALLOY AND PREPARATION METHOD AND APPLICATION THEREOF

00: -

The present invention discloses a method for preparing a titanium alloy composite coating, which includes: step 1: preparing an amorphous material TiZrNiCuBe on a titanium alloy by electric spark deposition to form a titanium fire resistant and flame-retardant coating; step 2: plasma spraying is used to prepare heat-insulating coating on the titanium fire resistant coating. The electric spark deposition is used to deposit TiZrNiCuBe amorphous alloy coatings on the surface of titanium alloy, which not only has the function of preventing titanium fire, but also forms a micro-metallurgical bonding with the substrate, which can replace the bonding layer of traditional thermal barrier coatings; the ZrO₂·7-8percentY₂O₃ thermal-insulation coating is prepared on the TiZrNiCuBe amorphous alloy coatings by supersonic plasma technology, which can prepare a composite functional coating of thermal-insulation and anti-titanium fire with high bonding strength on the surface of the titanium alloy.



21: 2021/06499. 22: 2021/09/06. 43: 2021/09/17
51: C12P

71: Qingdao Agricultural University

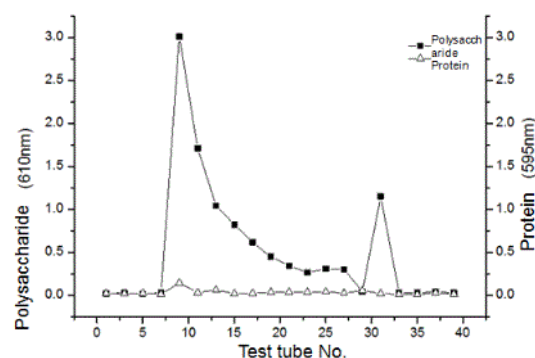
72: TIAN, Xuemei, ZHANG, Guoli, KONG, Chao

33: CN 31: 202110174398.0 32: 2021-02-07

54: APPLICATION OF SANGHUANGPORUS SANGHUANG FERMENTATION BROTH POLYSACCHARIDES IN MEDICAMENTS OF ANTI-AVIAN INFLUENZA VIRUS

00: -

The present invention discloses an application of Sanghuangporus sanghuang (accession number: CGMCC NO.21068) fermentation broth polysaccharide in a medicament of anti-avian influenza virus, including the steps of extracting, filtering, purifying, collecting and drying the Sanghuangporus sanghuang fermentation broth polysaccharide. The Sanghuangporus sanghuang fermentation broth polysaccharide extracted by the present invention expands the approaches of preventing and treating avian influenza virus, and thus is of great importance.



21: 2021/06500. 22: 2021/09/06. 43: 2021/09/17

51: A61G; F24F

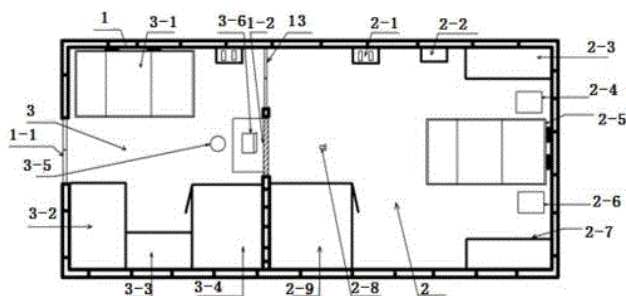
71: Guang'an People's Hospital

72: Ren Zhangxia, Yang Jingyan, Yang Ning

54: DETACHABLE MOBILE NEGATIVE PRESSURE ISOLATION WARD

00: -

The invention discloses a detachable mobile negative pressure isolation ward, which comprises a cabin and a negative pressure forming module, wherein the cabin is divided into a treatment area and a buffer area by a separation wall, and both the treatment area and the buffer area are provided with an air inlet and an exhaust port, and the negative pressure forming module respectively sends filtered fresh air into the treatment area and the buffer area through the air inlet, and discharges the air in the treatment area and the buffer area through the exhaust port. The negative pressure forming module keeps the exhaust volume larger than the air supply volume in the treatment area to form a negative pressure environment in the treatment area, and keeps the air supply volume larger than the exhaust volume in the buffer area to form a positive pressure environment in the buffer area to ensure that the air flows from the buffer area to the treatment area and finally to the outside of the cabin. The invention can solve the problem that primary hospitals and most general hospitals do not have special negative pressure wards for temporary treatment when there is a sudden infectious disease.



21: 2021/06502. 22: 2021/09/06. 43: 2021/09/17

51: G06K; G08G

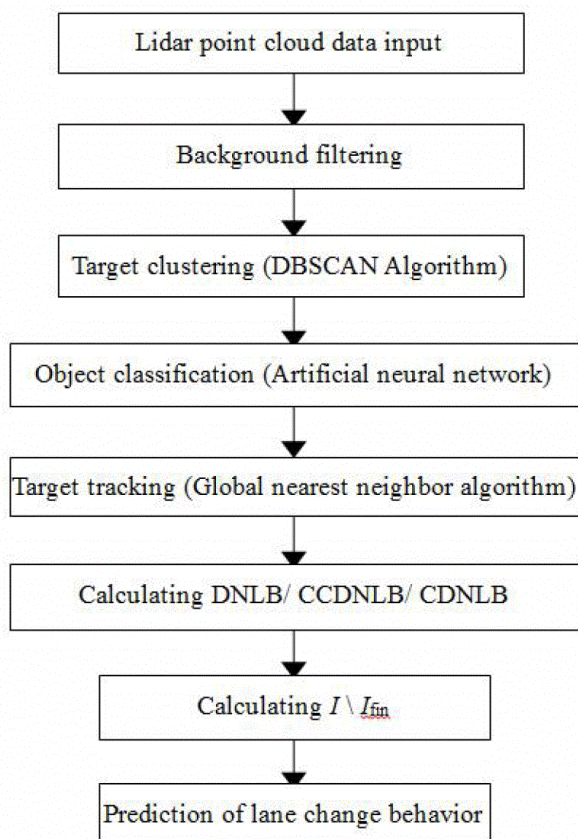
71: Shandong University, Traffic Management Research Institute of the Ministry of Public Security, Suzhou Research Institute, Shandong University

72: Wu Jianqing, Ma Zhaoyou, Sun Renjuan, Hou Fujin, Xu Jiabin, Li Tao, Liu Qun, Song Xiuguang, Zhang Hongbo

54: LANE CHANGE RECOGNITION AND PREDICTION METHOD, SYSTEM, EQUIPMENT AND STORAGE MEDIUM FOR EXTRACTING**VEHICLE TRACKS USING ROADSIDE LIDAR DATA**

00: -

The invention relates to a lane change recognition and prediction method, system, equipment and storage medium for extracting vehicle tracks using roadside lidar data, which comprises the following steps: (1) Carrying out background filtering on point cloud images scanned by lidar; (2) Clustering the point cloud data of the in-transit target; (3) Using artificial neural network to classify vehicles and people; (4) Tracking the same target in continuous frames; (5) Predicting the lane-changing behavior of vehicles according to the threshold value of the selected evaluation index. According to the method, the lane change or turning behavior of vehicles can be predicted in real time with high precision, and relevant lane change early warning systems of vehicles can be developed by utilizing the lane change information, thus contributing to the development of intelligent traffic engineering.



21: 2021/06503. 22: 2021/09/06. 43: 2021/09/17

51: G01B; G01C; H04W

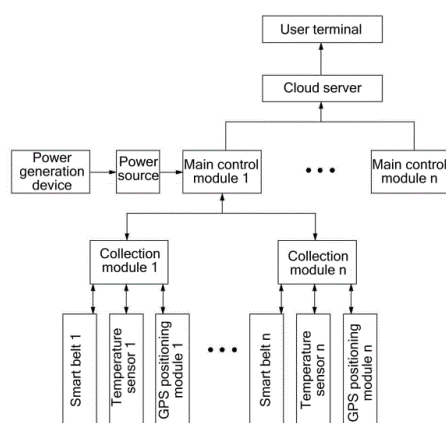
71: Shandong Ruien Ecological Environment Technology Co., Ltd.

72: ZHAO, Haiyan

54: GEOTECHNICAL ENGINEERING SAFETY MONITORING AND WARNING SYSTEM

00: -

A geotechnical engineering safety monitoring and warning system. The system includes a smart belt, and a collection module electrically connected to the smart belt and configured to collect a resistance value from each signal monitoring point on the smart belt, where the collection module is electrically connected to a main control module, the main control module is wirelessly connected to a cloud server, and the cloud server is wirelessly connected to a user terminal. The collection module automatically collects the resistance value from each signal monitoring point on the smart belt, and sends the data to the main control module; the main control module compares the data with a basic resistance value of each signal monitoring point on the smart belt, determines whether an alarm threshold is reached, and uploads the data to the cloud server for storage; and the cloud server sends the data to the user terminal.



21: 2021/06504. 22: 2021/09/06. 43: 2021/09/17

51: A01B; G01C; G05D

71: Qingdao Agriculture University

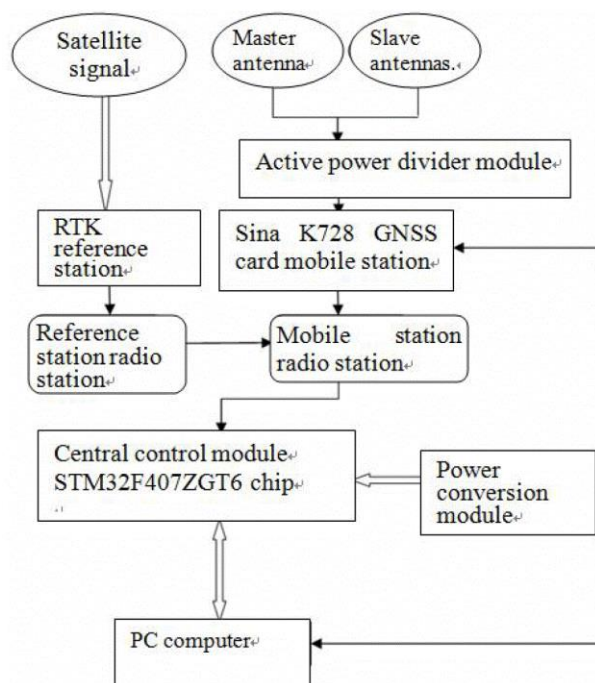
72: Zhang Jian, Yang Ranbing

54: AUTOMATIC NAVIGATION, POSITIONING AND ORIENTATION DEVICE FOR AGRICULTURAL MACHINERY

00: -

An automatic navigation, positioning and orientation device for agricultural machinery described in this

patent adopts GPS (Global Positioning System) and GLONASS (Global Navigation Satellite System) dual systems for information acquisition and implementation, and improves positioning and orientation accuracy by branching dual-frequency signals to have real-time single-point positioning, dual-frequency orientation, speed measurement and time service functions. This device includes RTK reference station, Sina K728 GNSS card mobile station, central control module, receiving antenna, power conversion module and active power divider module. The RTK reference station adopts BDStar Navigation Tianxuan C200-AT, and the reference station radio station adopts Huaxin external single transmission data transmission radio U202; the central control module adopts STM32F407ZGT6 chip; the Sina K728 GNSS card mobile station has a dual-antenna input module supporting GNSS and a dual-frequency signal positioning and orientation module supporting GPS L1/L2 and GLONASS G1/G2. The antenna comprises a master antenna and a slave antenna.



21: 2021/06505. 22: 2021/09/06. 43: 2021/09/17

51: A01P

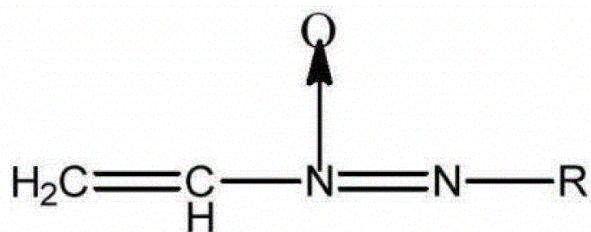
71: Shandong Academy of Pesticide Science

72: Han Jintao, Li Jintao, Dong Wenkai, Wang Yingxiu, Zhang Xingang, Zhang Xiaokang

54: JIETACIN ANALOGUE AND PREPARATION METHOD THEREOF

00: -

A Jietaicin analogue and its preparation method are provided. The Jietaicins analogue has the following structural general formula II. The preparation method comprises the following steps: taking substituted aldehyde 1 as an initial raw material, condensing to obtain imine, reducing to obtain substituted hydrazine compound 2, reducing with palladium carbon, removing a protective group, and oxidizing to obtain azo compound 3; making azo oxide compound 4 from compound 3 by nitrosation reaction, and a series of Jietaicins analogues are obtained from compound 4 by elimination reaction. The Jietaicins analogue of the invention has the same performance as Jietaicins, and the preparation method is simpler.



21: 2021/06506. 22: 2021/09/06. 43: 2021/09/17

51: B25J; G06T; G06N

71: Qingdao University of Science & Technology

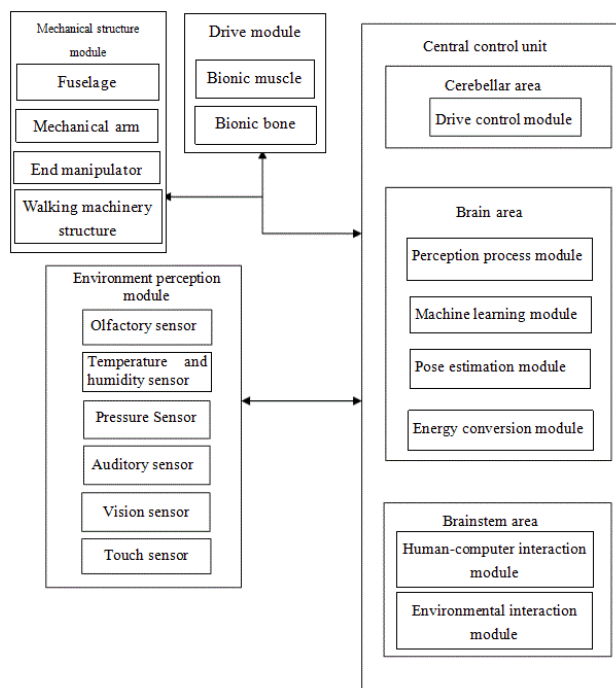
72: Zhang Dian, Sun Jun, Sheng Ning

54: BIONIC ROBOT SYSTEM BASED ON DEEP LEARNING

00: -

The invention discloses a bionic robot system based on deep learning, which includes: a mechanical structure module, an environment perception module, a drive module, and a central control unit; the mechanical structure module, the environment perception module and the drive module are all connected to the central control unit; the driving module is used for the humanoid robot to maintain a basic shape, support weight, and generate power; the mechanical structure module is used to form the basic form of a humanoid robot; the environment perception module is used to obtain information state of the external environment; and the central control unit is configured to control the mechanical structure module and the drive module to perform

command actions according to the state of the external environment. According to the invention, the bionic robot system integrates multiple technologies such as vision and touch, adjusts itself according to changes in the external environment, completes a number of complex tasks, and possesses personification and high intelligence.



21: 2021/06508. 22: 2021/09/06. 43: 2021/09/17

51: F01D

71: ANHUI DYNE AUTO AIR CONDITIONER., LTD

72: WANG, Jianfeng, FANG, Yi, YANG, Bin

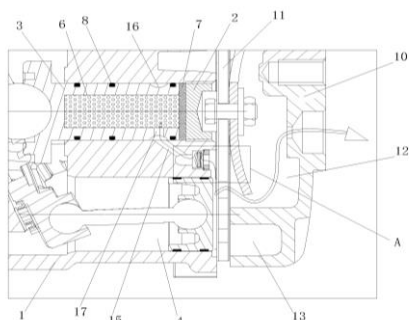
33: CN 31: 202110316218.8 32: 2021-03-24

54: VIBRATION DAMPING COMPRESSOR

00: -

The present invention provides a vibration damping compressor, comprising a cylinder block, an adjusting screw plug and a positioning gear. The cylinder block is provided with a cylinder bore, one end of the positioning gear close to the adjusting screw plug is provided with a high-pressure vibration damping chamber extending from an end face of the positioning gear to the interior thereof, and the cylinder block is provided with a throttle device in communication with the cylinder bore and the high-pressure vibration damping chamber and enabling the gas in the cylinder bore to enter the high-pressure vibration damping chamber. The piston of

the compressor can be involved in a suction-exhaust process every cycle of operation; during exhausting, most of the high-pressure gas mixed with high-pressure refrigerant and oil in the cylinder bore is discharged through the exhaust port.



21: 2021/06545. 22: 2021/09/07. 43: 2021/09/17
51: C05G

71: Guangxi Academy of Agricultural Sciences, Yitian Biotechnology (Hong Kong) Co. Ltd.

72: Tan Hongwei, Wang Gansen

54: ORGANIC FERTILIZER FOR IMPROVING RESISTANCE OF SUGARCANE TO RATOON STUNTING DISEASE AND PREPARATION METHOD THEREOF

00: -

The invention belongs to the technical field of fertilizers, and particularly relates to Organic fertilizer for improving resistance of sugarcane to ratoon stunting disease and preparation method thereof. The invention relates to an organic fertilizer for improving the resistance of sugarcane to ratoon stunting disease. The fermentation raw materials of the organic fertilizer comprise crop straws and rice bran, and the fermentation bacillus saccharomyces of the organic fertilizer is prepared from *Paecilomyces lilacinus*, *bacillus saccharomyces* and *Trichoderma* spp. Every ton of crop straw is added with 2-5kg of fermented bacillus saccharomyces. According to the invention, *paecilomyces lilacinus*, *saccharomycetes* and *Trichoderma* spp are mixed to prepare fermented bacillus saccharomyces, and rice bran is added into fermented crop straws, so that the prepared organic fertilizer can well prevent and control the ratoon stunting disease of sugarcane while improving soil fertility, solving the continuous cropping obstacle of sugarcane and ensuring the sustainability of sugarcane production.

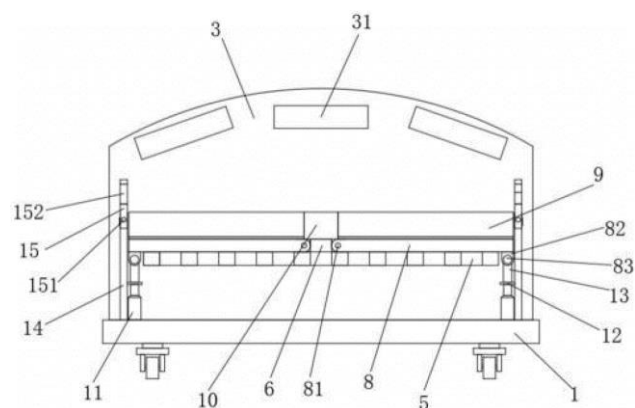
21: 2021/06546. 22: 2021/09/07. 43: 2021/09/17
51: A61G

71: The Affiliated Hospital of Youjiang Medical University for Nationalities

72: Peng Hao, Ren Jie, Xu Shuzhen, Lin Qiqing

54: MOBILE NURSING BED CAPABLE OF CONVENIENTLY ADJUSTING PATIENTS' POSTURE FOR EMERGENCY DEPARTMENT
00: -

The invention relates to the technical field of nursing beds, and particularly discloses a mobile nursing bed for emergency department, which is convenient to adjust the posture of patients. The mobile nursing bed comprises a bottom plate and a bed plate, wherein brake wheels are installed at positions close to four corners of bottom plate; a back plate and a front plate are fixedly connected to the back and front of top of the bottom plate respectively; a support frame is fixedly connected between the back plate and the front plate and near the center of the back of the top of bottom plate; the center of the top of the support frame is fixedly connected with a support plate; the left and right sides of the support plate are fixedly connected with five connecting structures at equal distance along the longitudinal direction, and the connecting structures comprise two first connector; the front and the back of the bed plate and one side close to the support plate are fixedly connected with a first rotating shaft. The first rotating shaft is rotationally connected in the connecting structures; and the side of the bed plate far away from the support plate extends out of the support frame; according to the invention, the body of a patient can be tilted over, so that nurses can conveniently turn over the patient; and moreover, both the structure and operation are simple.



21: 2021/06590. 22: 2021/09/08. 43: 2021/10/15
51: A01H

71: ENVIRONMENTAL HORTICULTURE
RESEARCH INSTITUTE, GUANGDONG ACADEMY
OF AGRICULTURAL SCIENCES, GUANGDONG
JINYING FLOWER SEEDLINGS CO., LTD.

72: ZHONG, RONGHUI, YOU, YI, LIU, JINMEI,
ZHANG, ZHENTIAN, CHEN, XIANGLUO, ZOU,
CHUNPING, QIN, HONGJIE, CHEN, JINFENG,
YANG, SIYU, CHEN, YU, CHEN, DEHUA

54: METHOD OF LARGE SCALE PRODUCTION OF AGLAONEMA

00: -

The present invention provides a method of large scale production of Aglaonema, comprising the following steps: induction culture of buds, propagation culture of clustered shoots, subculture of clustered shoots and rooting culture, obtaining complete plantlets, taking the plantlets out from the bottle and acclimatizing the plantlets, and transplanting the acclimatized plantlets. The method provided by the present invention has the advantages of easy operation, low production costs, no pollution of the environment, and implementation of large-scale production. The Aglaonema cultured by means of the method is stable in inheritance of propagated filial generation plantlets, comprehensive in character expression and excellent in ornamental character. Moreover, this technical system has the advantages of low production costs, environmental protection, no pollution of the environment, and quick mass production speed, and completely realizes the technical requirements for large-scale mass production.

21: 2021/06597. 22: 2021/09/08. 43: 2021/10/08
51: H04W

71: Shanghai Maritime University

72: Guangnian Xiao, Yu Xiao, Qing'an Cui, Bangping
Gu, Ruinan Wang, Qiongwen Lu, Zihao Wang,
Chuanxu Wang, Qunzhen Qu

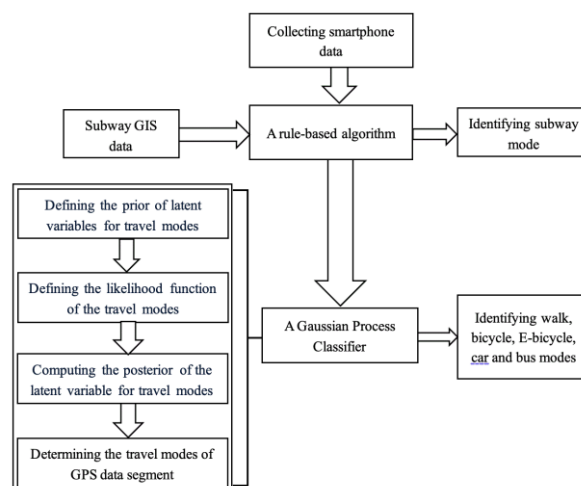
33: CN 31: CN202110109424.1 32: 2021-01-25

54: A METHOD FOR IDENTIFYING TRAVEL MODE BY MEANS OF RULE AND GAUSSIAN PROCESS CLASSIFIER

00: -

The invention proposes a method for identifying travel mode by means of rule and Gaussian Process Classifier. The method takes individual travelers as the research object and the GPS (global positioning system) information collected by smartphones as the

data source. The invention proposes a two-stage method to identify the travel mode from the trajectory data of the GPS. In the first stage, the rule-based classification system is used to identify subway sections; in the second stage, the Gaussian Process Classifier is used to identify other travel modes. The identification method can realize the automatic identification of six travel modes including walking, bicycle, E-bicycle, car, bus and subway based on the GPS data of smartphones, which is conducive to improving the efficiency and accuracy of travel investigation and data processing, so as to more effectively analyze the residents' travel behavior law, diagnose traffic problems, and alleviate traffic congestion.



21: 2021/06646. 22: 2021/09/09. 43: 2021/09/14
51: G01N

71: FARMLAND IRRIGATION RESEARCH
INSTITUTE OF CHINESE ACADEMY OF
AGRICULTURAL SCIENCES

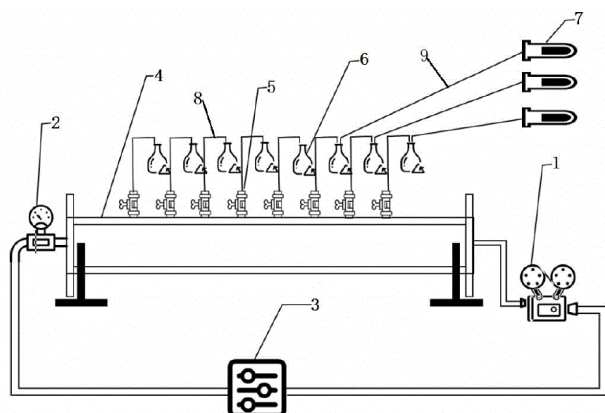
72: Li Ping, Du Zhenjie, Zhang Yan, Liang Zhijie, Liu
Duo, Guo Wei, Zhang Zulin, Qi Xuebin

54: SPECIAL SOIL SOLUTION EXTRACTION DEVICE FOR LYSIMETER

00: -

The invention discloses a special soil solution extraction device for a lysimeter, belonging to the technical field of soil eco-environment. The device comprises a balance air chamber, water vapor separation bottles, soil solution extractors and a vacuum pump. The balance air chamber is provided with a plurality of first vacuum tubes, one end of which is communicated with the balance air chamber and the other end is communicated with the water

vapor separation bottles. A vacuum pump and a double-limit controller are also arranged on the balance air cavity. According to the device provided by the invention, it can realize simultaneous extraction of soil solutions in different layers, and a foundation for accurate simulation of farmland soil hydrological processes, and rapid and efficient extraction of soil solutions.



21: 2021/06647. 22: 2021/09/09. 43: 2021/09/30
51: H01M

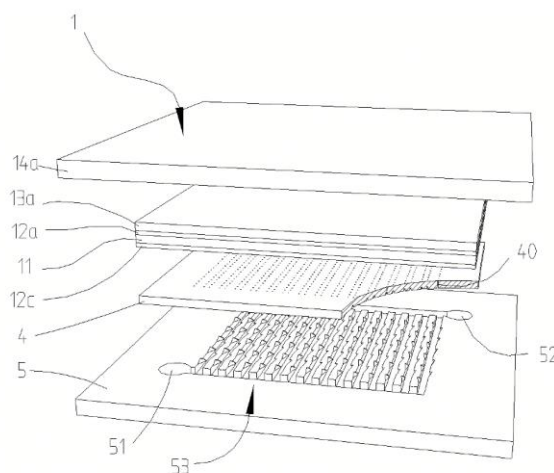
71: Qingdao University of Science and Technology
72: LIU, Haichao, WANG, Chuansheng, GUO, Lei,
LIU, Miaomiao, CHEN, Hongbo, HAN, Wenwen
33: CN 31: 202011232841.7 32: 2020-11-06

54: PROTON EXCHANGE MEMBRANE FUEL CELL

00: -

This invention discloses a proton exchange membrane fuel cell, with the proton exchange membrane as one of its components. One side of the proton exchange membrane is successively provided with anode catalyst layer, anode gas diffusion layer and anode plate from within; the other side of the proton exchange membrane is provided with a cathode catalyst layer, gas diffusion layer carrying water and conductive plate; the gas diffusion layer carrying water is provided with a dual-layer gas pipe side carrying water, and the side of the conductive plate adjacent to the gas diffusion layer is provided with a conductive gas channel. The conductive gas channel comprises at least one straight flow conductive channel, the two side walls of which are provided with a fin-shaped conductive structure. This invention, in combination with the water-carrying function of the gas diffusion layer

carrying water and the conductive role of the conductive bipolar plate, solves the contradiction between the removal of liquid water in the gas diffusion layer and the transmission of liquid water in the gas channel of the bipolar plate, improves the water management ability and performance of the cell, and prolongs the service life of the membrane electrode and the cell.



21: 2021/06648. 22: 2021/09/09. 43: 2021/09/30
51: A22B

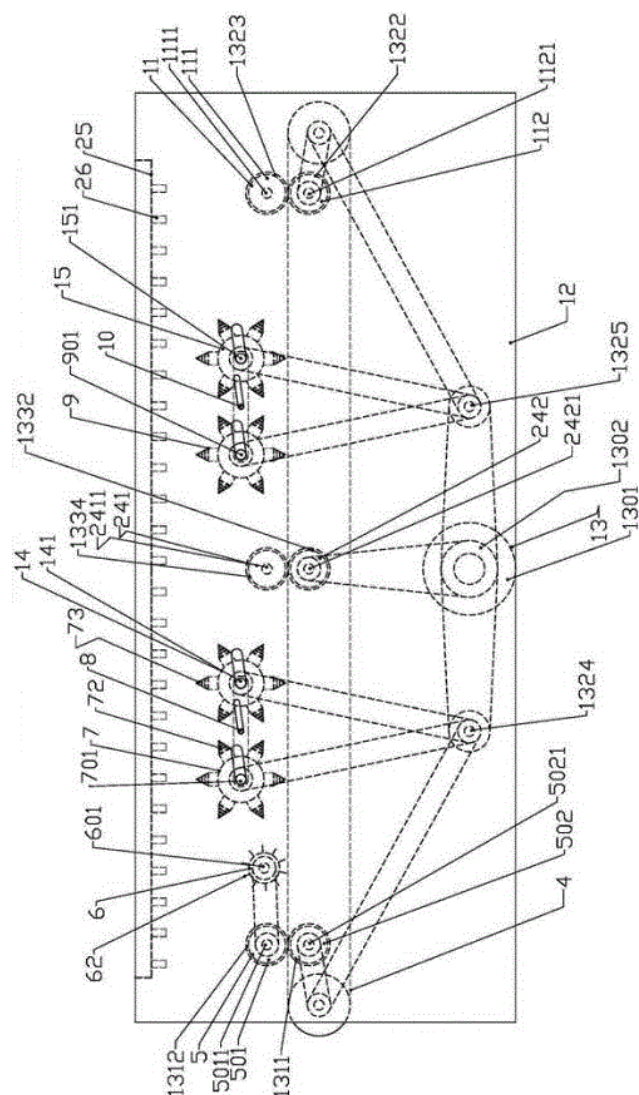
71: Institute of Agro-Food Science and Technology,
Shandong Academy of Agricultural Sciences
72: Liu Yaobo, Wang Shoujing, Wang Weiting, Du
Pengfei, Ma Yanli, Hu Peng, Ru Yi, Liu Yaotao, Hu
Xiaoying

54: DEPILATING MACHINE FOR FRESH SHEEPSKIN

00: -

The invention discloses depilating machine for fresh sheepskin, which belongs to the technical field of depilating machine, it comprises casing, front mesh pulley, rear mesh pulley, mesh belt, front compressing wheel, bristle wheel, front depilating wheel, front adjusting handle, rear depilating wheel, rear adjusting handle and rear compressing wheel. The front compressing wheel comprises upper and lower compressing wheels, the front depilating wheel is connected with the front adjusting handle, and the rear depilating wheel is connected with the rear adjusting handle. An electrical appliance box is arranged on the left side of the casing with an electrical appliance rotary driving mechanism arranged inside it; the front mesh pulley, the front compressing wheel, the bristle wheel, the front

depilating wheel, the rear depilating wheel, the rear compressing wheel and the rear mesh pulley are respectively driven by the electrical appliance rotary driving mechanism. The present invention has the features like cleaning the wool on the sheepskin easily and thoroughly, which improves the efficiency and the quality of work.



21: 2021/06660. 22: 2021/09/09. 43: 2021/09/30
51: F28D

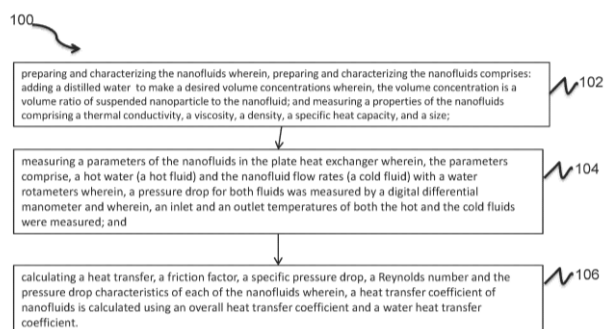
71: TIWARI, Arun Kumar, GHOSH, Pradyumna, SARKAR, Jahar, TIWARI, Gaurav

72: TIWARI, Arun Kumar, GHOSH, Pradyumna, SARKAR, Jahar, TIWARI, Gaurav

54: A METHOD AND SYSTEM FOR OPTIMIZATION OF PARTICLE CONCENTRATION LEVELS OF A VARIOUS NANOFLUIDS IN A PLATE HEAT EXCHANGER

00: -

The present disclosure relates to a method and system for optimization of particle concentration levels of a various nanofluids in a plate heat exchanger. The method comprises: preparing and characterizing the nanofluids; measuring a parameters of the nanofluids in the plate heat exchanger wherein, the parameters comprise, a hot water (a hot fluid) and the nanofluid flow rates (a cold fluid) with a water rotameters wherein, a pressure drop for both fluids was measured by a digital differential manometer and wherein, an inlet and an outlet temperatures of both the hot and the cold fluids were measured; and calculating a heat transfer, a friction factor, a specific pressure drop, a Reynolds number and the pressure drop characteristics of each of the nanofluids wherein, a heat transfer coefficient of nanofluids is calculated using an overall heat transfer coefficient and a water heat transfer coefficient.



21: 2021/06661. 22: 2021/09/09. 43: 2021/09/30
51: G01N

71: TIWARI, Arun Kumar, SAID, Zafar, OZTOP, Hakan F., TIWARI, Gaurav

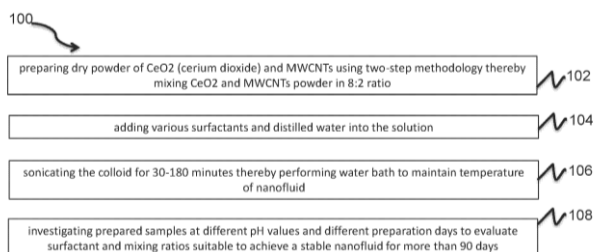
72: TIWARI, Arun Kumar, SAID, Zafar, OZTOP, Hakan F., TIWARI, Gaurav

54: A PROCESS FOR PREPARING WATER-BASED HYBRID NANOFLUID AND ANALYZING THERMAL CONDUCTIVITY

00: -

The present invention generally relates to a process for preparing water-based hybrid nanofluid and analyzing thermal conductivity comprises preparing dry powder of CeO₂ (cerium dioxide) and MWCNTs using two-step methodology thereby mixing CeO₂ and MWCNTs powder in 8:2 ratio; adding various surfactants and distilled water into the solution;

sonicating the colloid for 30-180 minutes thereby performing water bath to maintain temperature of nanofluid; and investigating prepared samples at different pH values and different preparation days to evaluate surfactant and mixing ratios suitable to achieve a stable nanofluid for more than 90 days.



21: 2021/06682. 22: 2021/09/09. 43: 2021/09/30
51: A01C

71: QINGDAO UNIVERSITY OF TECHNOLOGY,
INNER MONGOLIA UNIVERSITY FOR
NATIONALITIES

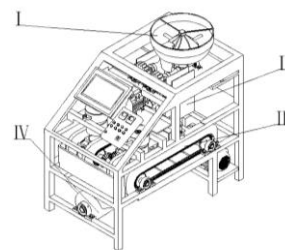
72: YANG, Min, LI, Changhe, JIA, Dongzhou, ZHAO,
Huayang, WANG, Yucheng, ZHANG, Yanbin, HOU,
Yali

33: CN 31: 201910452452.6 32: 2019-05-28

**54: INTELLIGENT SEED PRODUCTION DEVICE
AND METHOD BASED ON MULTI-STAGE
ADAPTIVE POSITIONING AND BUD EYE
RECOGNITION**

00: -

The present invention discloses an intelligent seed production device and method based on multi-stage adaptive positioning and bud eye recognition. The device comprises a feeding system, a pre-cutting system, an intelligent bud eye recognition and cutting system and a mixing system; the feeding system is connected to the pre-cutting system, the pre-cutting system is connected to the intelligent bud eye recognition and cutting system, and the intelligent bud eye recognition and cutting system is connected to the mixing system; the feeding system intermittently feeds a packaged material to be processed into the pre-cutting system, and the pre-cutting system cuts the received material in half, and conveys the cut material to the intelligent bud eye recognition and cutting system; the cut material pieces enter the mixing system, and the mixing system fully mixes an additive with the material pieces.



21: 2021/06683. 22: 2021/09/09. 43: 2021/09/30
51: F26B

71: QINGDAO UNIVERSITY OF TECHNOLOGY,
QINGDAO SISA ABRASIVES CO., LTD.

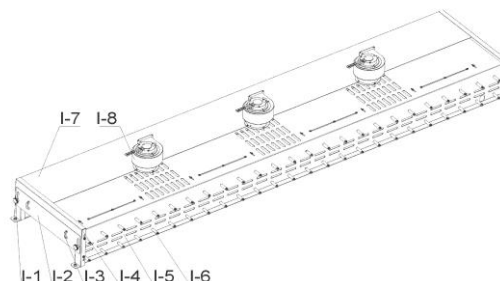
72: LI, Changhe, HUANG, Baoteng, ZHAI, Han, LU,
Bingheng, CAO, Huajun, WANG, Zhen, ZHANG,
Naqing, YANG, Min, ZHANG, Yanbin, HOU, Yali, LI,
Runze, CUI, Xin, LIU, Mingzheng, GAO, Teng,
WANG, Xiaoming

33: CN 31: 201910817682.8 32: 2019-08-30

**54: DRYING DEVICE AND DISCHARGING
EQUIPMENT USED IN PRODUCTION PROCESS
OF CA ABRASIVE**

00: -

The present invention discloses a drying device and drying and discharging equipment used in production of a CA abrasive. The drying device used in the production process of a CA abrasive includes an oven, the oven includes an oven inner shell and an oven outer shell, the oven outer shell is disposed outside the oven inner shell and the both are connected, a cavity is formed between the oven inner shell and the oven outer shell, the oven inner shell is provided with air guide holes such that the inside of the oven inner shell is communicated with an exhaust mechanism through the air guide holes and the cavity, the exhaust mechanism is connected to the oven, and the oven inner shell can be disposed across a belt mold to facilitate the movement of the belt mold; and a heat source mechanism is disposed inside the oven inner shell.



21: 2021/06684. 22: 2021/09/09. 43: 2021/09/30
51: B23Q; G05B

71: QINGDAO UNIVERSITY OF TECHNOLOGY,
JIANGNAN UNIVERSITY, NINGBO SANHAN
ALLOY MATERIAL CO., LTD.

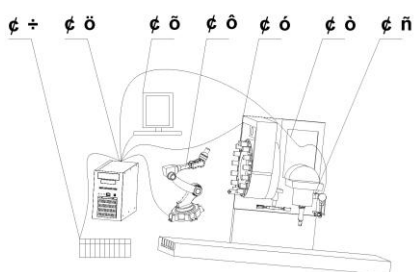
72: LI, Changhe, YIN, Shuo, LUO, Liang, JI, Weixi,
WAN, Binhui, LI, Haogang, CAO, Huajun, LU,
Bingheng, TANG, Lizhi, ZHANG, Yanbin, XU, Jie,
LUO, Huiming, XU, Haizhou, YANG, Min, HONG,
Huaping, GAO, Teng, HOU, Yali, MA, Wuxing,
CHEN, Shuai

33: CN 31: 202010108296.4 32: 2020-02-21

**54: CUTTER STATE MONITORING AND
CONTROL SYSTEM AND METHOD FOR
NUMERICAL CONTROL MACHINE TOOL**

00: -

The present invention discloses a cutter state monitoring and control system and method for a numerical control machine tool. The method includes: collecting an abnormal vibration signal during a cutter machining process in real time; using a cutter state prejudgment model to perform state prejudgment on an abnormal condition and determine a time point when a cutter is abnormal; and collecting a cutter image after the state prejudgment without affecting the machining continuity of the cutter, so as to make an accurate prejudgment on the abnormal state of the cutter. The system of the present disclosure is divided into state prejudgment and accurate prejudgment on the cutter in terms of prejudgment on the state of the cutter, and the system occupies a short normal equipment operation time during the working process.



21: 2021/06685. 22: 2021/09/09. 43: 2021/09/30
51: A23N

71: QINGDAO UNIVERSITY OF TECHNOLOGY,
HENAN UNIVERSITY OF SCIENCE AND
TECHNOLOGY, RESEARCH INSTITUTE OF
AGRICULTURAL MECHANIZATION, XINJIANG
ACADEMY OF AGRICULTURAL SCIENCES

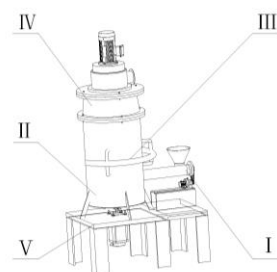
72: LIU, Mingzheng, LI, Changhe, LI, Xinping, LIU,
Xiangdong, YANG, Huimin, ZHANG, Yanbin,
WANG, Xiaoming, HOU, Yali

33: CN 31: 202010286281.7 32: 2020-04-13

**54: FLUIDIZED BED COLLISION TYPE AIRFLOW
MECHANICAL SUPERFINE PULVERIZATION
EQUIPMENT AND METHOD**

00: -

The present disclosure provides a fluidized bed collision type airflow mechanical superfine pulverization equipment and method. The fluidized bed collision type airflow mechanical superfine pulverization equipment includes a frame, and a feeding device, a primary pulverization device, a secondary pulverization device and a grading device which are arranged on the frame, wherein the primary pulverization device is configured to apply an impact type mechanical pulverization effect, and has a feed port connected to a tail end of the feeding device, the primary pulverization device includes a pulverization turntable and an inner lining plate arranged on the outer side of the pulverization turntable, a plurality of inclined impact pulverization blades are arranged on the pulverization turntable, and a plurality of protrusions are arranged on the inner edge of the inner lining plate; the secondary pulverization device is configured to apply a collision type airflow pulverization effect.



21: 2021/06686. 22: 2021/09/09. 43: 2021/09/30
51: B07B

71: QINGDAO UNIVERSITY OF TECHNOLOGY,
HENAN UNIVERSITY OF SCIENCE AND
TECHNOLOGY, RESEARCH INSTITUTE OF
AGRICULTURAL MECHANIZATION, XINJIANG
ACADEMY OF AGRICULTURAL SCIENCES

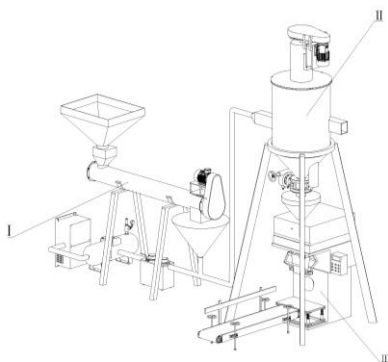
72: WANG, Xiaoming, LI, Changhe, LIU, Mingzheng,
LI, Xinping, LIU, Xiangdong, YANG, Huimin,
ZHANG, Yanbin, HOU, Yali

33: CN 31: 202010286124.6 32: 2020-04-13

54: SPIRAL DISPERSING AND CYCLONE GRADING TYPE GRADING AND PACKAGING SYSTEM AND METHOD FOR PEANUT SHELL SUPERFINE POWDER

00: -

The present disclosure provides a spiral dispersing and cyclone grading type grading and packaging system and method for peanut shell superfine powder, and belongs to the technical field of peanut processing. The system includes a dispersing device, a grading device and a packaging device, the grading device includes a grading cavity, the grading cavity includes a cylindrical portion and a conical portion on the lower side of the cylindrical portion, an air and material inlet and an air inlet are symmetrically and tangentially arranged at middle positions of the cylindrical portion, a cylindrical screen mesh grading cavity coaxial with the cylindrical portion is arranged in the cylindrical portion, and a grading impeller coaxial with the cylindrical portion is arranged in the screen mesh grading cavity; and rotating airflow formed by the air and material inlet and the air inlet performs first time grading on the dispersed superfine powder.



21: 2021/06689. 22: 2021/09/10. 43: 2021/09/30
51: H02J; G06Q
71: AOSTAR INFORMATION TECHNOLOGIES CO., LTD.

72: TANG, Donglai, NI, Pingbo, ZHANG, Jie, HU, Zhouming, SHANG, Zhongyu, HUANG, Pu, ZHAO, Zixin

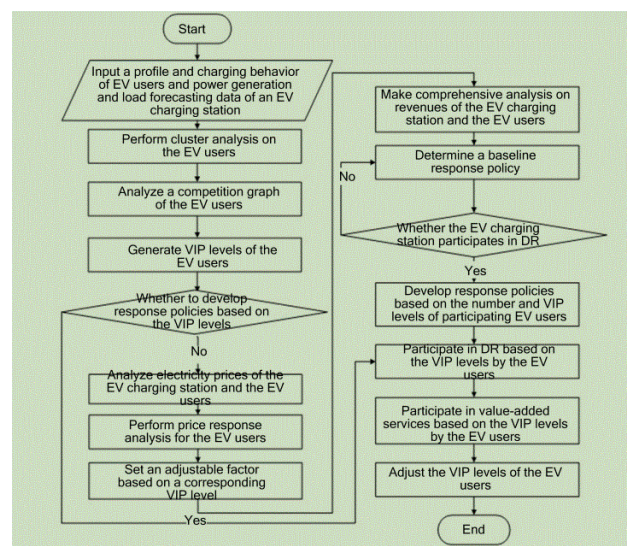
33: CN 31: 202110586800.6 32: 2021-05-27

54: COMPETITION GRAPH-BASED DEMAND RESPONSE METHOD FOR ELECTRIC VEHICLE CHARGING STATION

00: -

The present disclosure proposes a competition graph-based DR method for an EV charging station,

which, on the basis of the existing peak-to-valley charging price difference, fully considers the experience and personalization needs of EV users, and realizes more types of electricity price fluctuations for EV users. According to the present disclosure, during the charging process of an EV user, a VIP level of the EV user is obtained through a competition graph, and the EV user can obtain corresponding economic compensation or value-added services based on the VIP level, so that a more personalized service experience can be provided for the EV user.



21: 2021/06691. 22: 2021/09/10. 43: 2021/09/30

51: G06F

71: Sichuan University of Science and Engineering

72: TANG, Yufeng

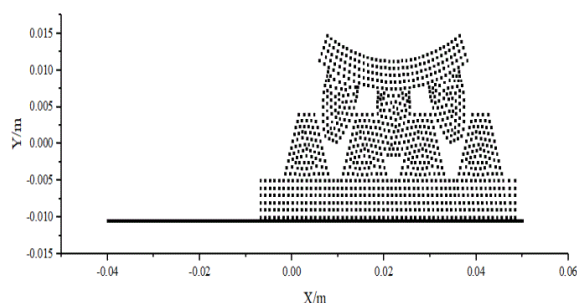
33: CN 31: 202010957919.5 32: 2020-09-14

54: METHOD FOR ANALYZING DYNAMIC MESHING AND TRANSMISSION PROCESS OF GEAR AND RACK BASED ON SPH

00: -

The invention provides a method for analyzing dynamic meshing and transmission process of gears and racks based on SPH. According to the method, a pure Lagrangian meshless method, namely the Smoothed Particle Hydrodynamics (SPH), is adopted, a gear, a rack and other models are discretized into a limited number of particles, and the mechanical and motion behaviors of the whole process of high-speed, dynamic meshing and transmission among the gears, the racks and other models can be analyzed. The method can avoid grid distortion generated when large deformation occurs

during the traditional grid method, and provides a new analysis method for the fields of high-speed complex meshing mechanical systems such as gears, racks, bearings and the like.



21: 2021/06694. 22: 2021/09/10. 43: 2021/10/08
51: C05G

71: Ludong University Dongying Base of Integration Between Industry and Education for High-quality Development of Modern Agriculture

72: Zhao Ying, Zhao Huili, Wang Li, Wu Nan, Guo Xiaohong

54: A SOIL CONDITIONER FOR TREATING SALINE-ALKALI LAND AND ITS PREPARATION METHOD AND APPLICATION

00: -

The invention discloses a soil conditioner for treating saline-alkali land, which is made of the following raw material components in parts by weight: 22-30 parts of sodium carboxymethyl cellulose, 42-55 parts of desulfurized gypsum, 20-35 parts of biogas residue fertilizer, 1-5 parts of water retaining agent, 15-20 parts of humic acid, 6-10 parts of zeolite, 60-75 parts of organic fertilizer. In addition, the present invention also provides a method for preparing a soil conditioner for treating saline-alkali land. The present invention uses sodium carboxymethyl cellulose, desulfurized gypsum, biogas residue fertilizer, water retention agent, humic acid, zeolite, and organic fertilizer as modifiers to reduce the salt content of saline-alkali soil and increase the organic substrate of the soil. The soil conditioner has a long-lasting improvement effect and strong soil water and fertilizer retention capacity. The application of the soil conditioner of the present invention further reduces the pH value of the saline-alkali soil, improves the ability of soil to retain water and fertilizer, and has a simple source of raw materials, effectively dispose of crop waste and organic

matters such as human and animal manure and urine.

21: 2021/06695. 22: 2021/09/10. 43: 2021/10/08
51: C08L

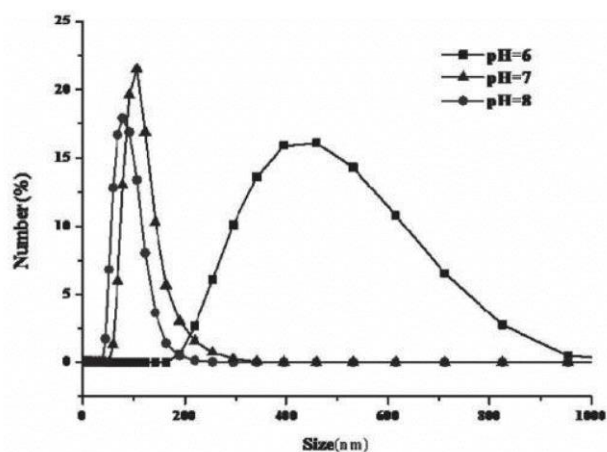
71: Qilu University of Technology

72: Lyu Gaojin, Luo Tong, Cui Han, Wang Chao, Ji Xingxiang, Yang Guihua

54: PREPARATION METHOD, PRODUCTS AND APPLICATIONS OF LIGNIN NANOPARTICLES

00: -

The invention belongs to the technical field of biomass nanomaterials, and particularly provides preparation method, products and application of lignin nanoparticles. The preparation method of the lignin nanoparticles comprises the following steps: dissolving lignin in deep eutectic solvents, and fully dissolving and dispersing to obtain a deep eutectic solvents-lignin solution, adding the deep eutectic solvents-lignin solution into the continuously stirred anti-solvent dropwise according to a certain proportion, adjusting the pH value of the mixture, and continuously stirring under the condition of heating in a water bath. The method solves the problems that the preparation steps of lignin in the prior art are difficult and the stability of the prepared lignin solution is poor.



21: 2021/06696. 22: 2021/09/10. 43: 2021/10/08
51: E21D; E21F

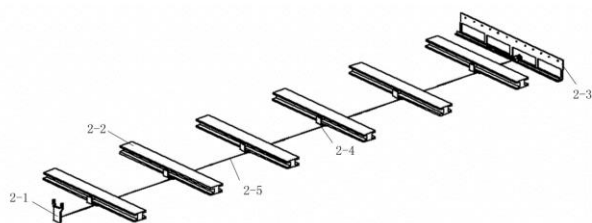
71: Shandong University of Science and Technology
72: WAN, Lirong, JIANG, Kao, ZENG, Qingliang, GAO, Kuidong, SUN, Liqing, ZHANG, Xin, WANG, Liang, LIU, Zhihai, WANG, Chenglong, ZHANG, Xiaodi, XU, Wenqian, LIU, Jihai, LIU, Hong, CHEN, Sheng

33: CN 31: 202011070660.9 32: 2020-10-09

54: HYDRAULIC SUPPORT STRAIGHTNESS DETECTION DEVICE AND WORKING METHOD THEREOF

00: -

The present disclosure discloses a hydraulic support straightness detection device and a working method thereof. The detection device includes a linear sliding rail fixed on a top beam of a support; a pulley assembly includes a pulley, a pulley frame and a traction frame; the pulley frame is slidably connected to the sliding rail through the pulley; the traction frame is fixed at the bottom of the pulley frame; the traction frame is provided with a traction ring used to place a rigid rod in a penetrating manner; a displacement sensor is mounted on a side of the linear sliding rail; the rigid rods on adjacent hydraulic supports are fixed to form a complete straight rod; and a start end of the straight rod is fixedly connected to a lateral wall of the top beam of the hydraulic support at the start end.

21: 2021/06697. 22: 2021/09/10. 43: 2021/10/08
51: F04B

71: Nanchang Hangkong University

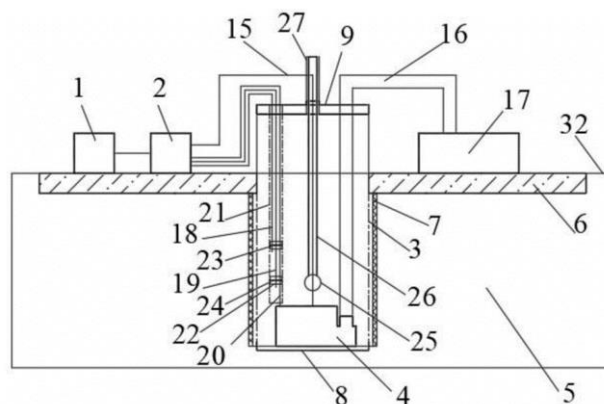
72: Zhang Tao, Shi Jianyong, Han Shangyu, Wu Xun, Ji Xiaolei, Zhang Huihua

54: PUMPING WELL FOR PUMPING AND DISCHARGING LEACHATE IN LANDFILLS

00: -

The invention discloses a pumping well for pumping and discharging leachate in landfills, which comprises an electrical box, a water pump full-automatic liquid level controller, a hollow pipeline and a submersible sewage pump. In the landfill layer, a clay sealing layer is arranged around the upper part of the hollow pipe, and a small hole is formed at the lower part of the hollow pipe. The submersible sewage pump is placed at the bottom of the hollow pipeline, the power line of the submersible sewage pump is connected with the full-automatic liquid level controller of the water pump

and the electrical box in turn, and the drainage pipe is connected with the submersible sewage pump and the leachate collection pool in turn. One end of the liquid level control line passes through the upper positioning plate and the lower positioning plate equipped with guide joints respectively, and is put into the hollow pipeline after being applied with the hollow pipe; and the other end is connected with a water pump full-automatic liquid level controller. Paste the floating ball on the bottom of the scale rod and put it into the hollow pipe to measure the liquid level. The pumping well has reasonable structure, good sealing performance and convenient construction, and is beneficial to the collection of leachate and biogas and the pumping test in a landfill.

21: 2021/06699. 22: 2021/09/10. 43: 2021/10/15
51: A23L; A23P

71: Jilin Agricultural University, Jilin Provincial Academy of Forestry Sciences

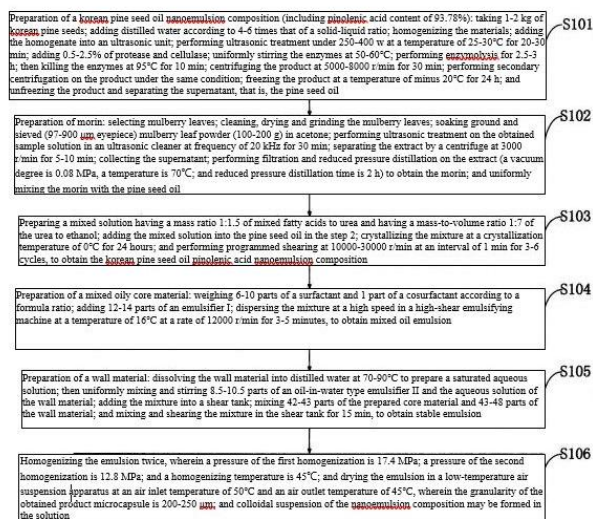
72: YANG, Yuchun, LIU, Junmei, LI, Zhuowei, SHENG, Zhili, WANG, Jun, LI, Xiaoyu, LIU, Sainan, CHANG, Ya'nan

54: LOW-TEMPERATURE AIR SUSPENSION KOREAN PINE SEED OIL PINOLENIC ACID NANOEMULSION COMPOSITION MICROCAPSULE

00: -

Disclosed is a low-temperature air suspension korean pine seed oil pinolenic acid nanoemulsion composition microcapsule. A pine seed oil and pinolenic acid nanoemulsion composition that is easily oxidized is microencapsulated; pinolenic acid and morin serve as core materials; zein serves as a wall material; powdered oil is prepared by a low-temperature air suspension method; and pinolenic acid content is up to $90.34 \pm 0.53\%$ after embedding.

The stability of the pine seed oil and pinolenic acid nanoemulsion composition is effectively protected; poor flavor is effectively controlled; shelf life of the composition is significantly prolonged; and a problem that the pine seed oil and pinolenic acid nanoemulsion composition is easily oxidized is solved. The nanoemulsion composition microcapsule prepared be directly added into foods such as meat products, dairy products and fruit and vegetable juice, does not affect product taste, and widens extensive applications of the nanoemulsion composition microcapsule in the foods.



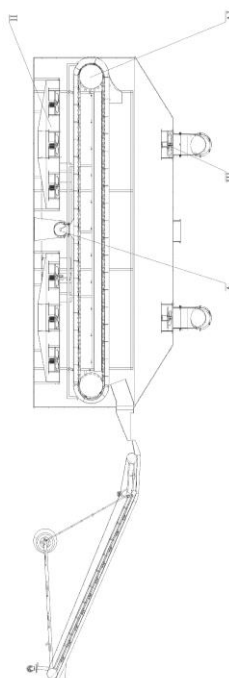
21: 2021/06719. 22: 2021/09/10. 43: 2021/10/14
51: F26B

71: QINGDAO UNIVERSITY OF TECHNOLOGY, RESEARCH INSTITUTE OF AGRICULTURAL MECHANIZATION, XINJIANG ACADEMY OF AGRICULTURAL SCIENCES, XINJIANG JIANG NING LIGHT INDUSTRIAL MACHINERY ENGINEERING TECHNOLOGY CO., LTD.
72: SHI, Mingcun, LI, Changhe, LIU, Mingzheng, YANG, Huimin, LI, Xiping, LIU, Xiangdong, CHE, Ji, GAO, Lianxing, ZHAO, Huayang, ZHANG, Yanbin, WANG, Xiaoming, HOU, Yali
33: CN 31: 202010302670.4 32: 2020-04-13
54: AIR ENERGY THROUGH-FLOW BOX DRYER FOR WALNUT SHELLS AND WORKING METHOD THEREOF

00: -

The present invention belongs to the field of air energy drying processing, and particularly relates to an air energy through-flow box dryer for walnut shells and a working method thereof. The air energy

through-flow box dryer for walnut shells includes a box body, wherein a conveying mechanism is arranged inside the box body, an input end of the conveying mechanism is connected with a feed port, and the conveying mechanism is used for conveying walnut shells to be dried; at least one air energy heat pump is arranged on one side of the box body; and the air energy heat pump includes an evaporator and a condenser, the evaporator is used for absorbing heat from the air inside the box body, and the condenser is used for discharging the heat absorbed by the evaporator into the box body to complete a closed loop cycle.



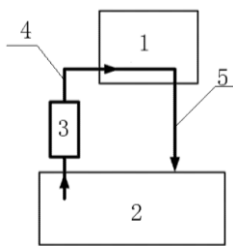
21: 2021/06724. 22: 2021/09/10. 43: 2021/10/14
51: A61B; G01R

71: SHANDONG FIRST MEDICAL UNIVERSITY & SHANDONG ACADEMY OF MEDICAL SCIENCES
72: LU, Weizhao, HOU, Kun, QIU, Jianfeng, SHI, Liting, ZHAO, Huihui
33: CN 31: 201910111798.X 32: 2019-02-12
54: QUALITY CONTROL PHANTOM AND EVALUATION METHOD FOR MAGNETIC RESONANCE ARTERIAL SPIN LABELING PERFUSION IMAGING

00: -

The present disclosure provides a quality control phantom and an evaluation method for magnetic

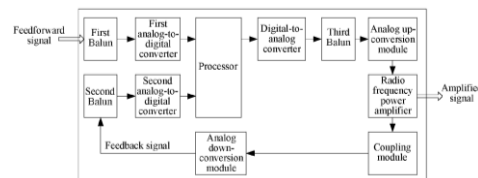
resonance arterial spin labeling perfusion imaging. The quality control phantom for magnetic resonance arterial spin labeling perfusion imaging includes: a phantom main body; a container, a circulating liquid being provided in the container; a tube, comprising a first tube and a second tube, one end of the first tube being in communication with the container, the other end being in communication with a liquid inlet of the phantom main body, one end of the second tube being in communication with the container, the other end being in communication with a liquid outlet of the phantom main body, and the first tube, the phantom main body, the second tube and the container jointly forming a closed loop; a pump, provided on the first tube and used to drive the circulating liquid to circulate along the closed loop.



21: 2021/06725. 22: 2021/09/10. 43: 2021/10/14
51: G01R
71: SHANDONG FIRST MEDICAL UNIVERSITY & SHANDONG ACADEMY OF MEDICAL SCIENCES
72: LU, Weizhao, HOU, Kun, QIU, Jianfeng, SHI, Liting, ZHAO, Huihui
33: CN 31: 201910111648.9 32: 2019-02-12
54: MAGNETIC RESONANCE RADIO FREQUENCY POWER AMPLIFIER APPARATUS AND MAGNETIC RESONANCE SYSTEM
00: -

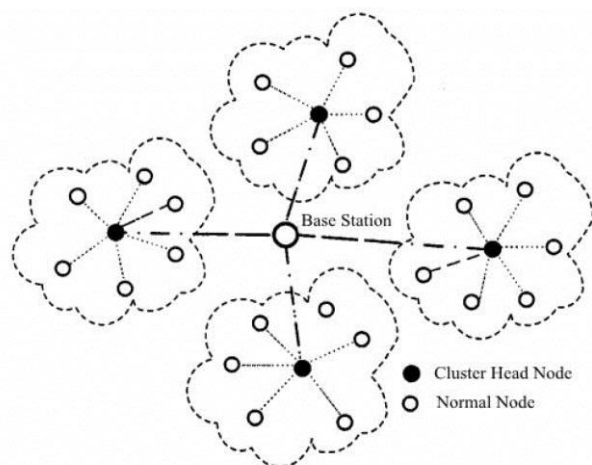
The present disclosure provides a magnetic resonance radio frequency power amplifier apparatus and a magnetic resonance system. The magnetic resonance radio frequency power amplifier apparatus includes a first Balun configured to receive a feedforward signal and transmit the feedforward signal to a processor through a first analog-to-digital converter; a second Balun configured to receive a feedback signal and transmit the feedback signal to the processor through a second analog-to-digital converter; and the processor configured to perform digital frequency conversion and signal synchronization processing on

the received feedforward signal and feedback signal, train a radio frequency power amplifier inverse function estimator through a neural network indirect learning structure, and copy a weight coefficient of the radio frequency power amplifier inverse function estimator to a pre-distorter; wherein an output signal of the pre-distorter enters a radio frequency power amplifier module through a third balun.



21: 2021/06750. 22: 2021/09/13. 43: 2021/09/17
51: H04W
71: Qingdao Agricultural University
72: Ma Dexin, Zhang Qun, Yun Yuliang, Zhang Jian, Hao Fengqi, Li Li, Meng Fanjia, Zhang Miao, Liu Gang, Ma Jian, Ding Zhaotang, Wang Jiguo, Bai Xuefeng, Bi Caihong, Wang Wuchuang
54: CLUSTERING METHOD BASED ON PARTICLE SWARM OPTIMIZATION FOR WIRELESS SENSOR NETWORKS
00: -

A method for clustering wireless sensor networks based on particle swarm optimization belongs to the field of topology control of wireless sensor networks. The method is characterized in that the number of optimal clusters is dynamically determined according to the status of the current farmland environmental detection network, wherein factors that affecting energy consumption are fully considered, a fitness function is constructed, and the optimal cluster heads are selected using particle swarm optimization algorithm, so that cluster heads are uniformly distributed in the network and the load of the network is balanced as a result; the factors affecting energy consumption are fully considered as performing clustering, and particle swarm optimization algorithm is adopted for optimization, which improves the utilization of energy and prolongs the lifetime of farmland environmental detection network. The residual energy of nodes is taken into consideration as choosing cluster head, so that energy for performing tasks such as collection and aggregation of cluster head nodes is ensured as well as the security of data.



21: 2021/06751. 22: 2021/09/13. 43: 2021/09/17
51: G06F; G06K

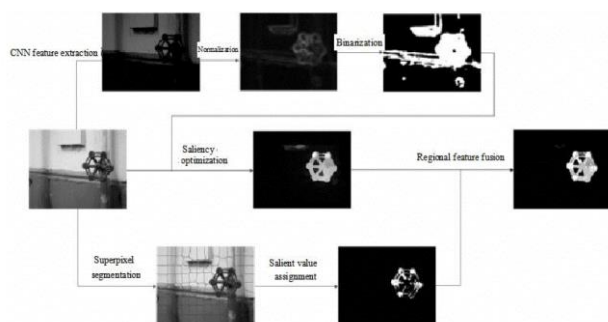
71: Xidian University

72: Meng Fanjie, Ma Qing, Zeng Pingping, Li Runxin, Feng Haonan

54: A SIGNIFICANCE DETECTION METHOD BASED ON CNN AND BACKGROUND PRIOR

00: -

The invention discloses a significance detection method based on CNN and background prior, which comprises the following steps: acquiring an original image and respectively carrying out convolution processing and segmentation processing on the original image; when convolution processing is performed, the first initial significance map is obtained; when the segmentation process is carried out, the second initial significance map is obtained; the first initial significance map and the second initial significance map are fused to obtain the final significance map. Experimental results show that this method can not only accurately detect significant targets, but also better suppress image background.



21: 2021/06752. 22: 2021/09/13. 43: 2021/09/17
51: B65D

71: Qingdao University of Science and Technology
72: Li Shaoxiang, Wang Dong, Qu Wenjuan, Cheng Jiaji, Guan Yu

54: AIR-PERMEABLE POLYVINYL ALCOHOL FILM AND PREPARATION METHOD THEREOF

00: -

The invention belongs to the technical field of polymer material design and processing. Polyvinyl alcohol, starch and cellulose are used as basic film-forming substances, and the structural gaps of metal-organic framework compounds are used as air-permeable channels, so that the film has good air permeability. The invention relates to a air-permeable polyvinyl alcohol film, which is a particle doped polyvinyl alcohol film, and the dopant is a metal-organic framework compound. The preparation method comprises the process of film casting solution preparation and film casting, which comprises the following steps: firstly, fully dispersing metal-organic frameworks (MOFs) nanoparticles in deionized water, and respectively dissolving polyvinyl alcohol and other components by using the suspension; and uniformly mixing and casting a film. The air-permeable polyvinyl alcohol film disclosed by the invention is environment-friendly, has good physicochemical properties and thermal stability, obviously improves air permeability, and has simple preparation process, is easy to control and does not generate three wastes. It is suitable for the fields with ventilation requirements, especially for the packaging films of medical devices, food and clothes.

21: 2021/06753. 22: 2021/09/13. 43: 2021/09/17
51: G06Q

71: China Institute of Water Resources and Hydropower Research

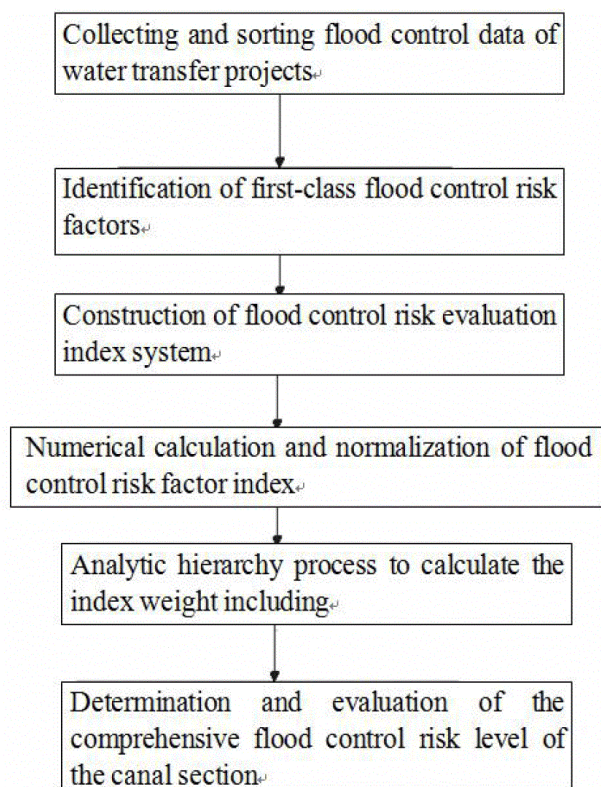
72: Wang Gang, Ding Liqian, Ren Minglei, Jiang Xiaoming, Zhao Liping, Gu Lihua, Liu Yingfei, Wu Nan, Fu Xiaodi, Du Xiaohe, Liu Yun

54: FLOOD CONTROL RISK IDENTIFICATION AND ASSESSMENT METHOD OF WATER TRANSFER PROJECTS

00: -

A flood control risk identification and assessment method of water transfer projects comprises the following steps: collecting and sorting flood control data of water transfer projects; identification of first-class flood control risk factors such as rainfall-runoff, confluence and flow capacity, engineering geological

characteristics of canal section and economic and social layout; the first-class flood control risk factor is decomposed into the second-level flood control risk factor, and the flood control risk evaluation index system is constructed; numerical calculation and normalization of flood control risk factor index; analytic hierarchy process (AHP) calculates index weight; determine and evaluate the comprehensive flood control risk grade of canal section. The method has the beneficial effects that, starting from various risk sources and risk events involved in the whole process of flood disaster chain, flood control risk factors of water transfer projects are systematically and comprehensively identified, corresponding evaluation index system is constructed, and comprehensive flood control risk assessment model of water transfer projects is established based on risk assessment theory, thus realizing quantitative assessment and risk classification management of flood control comprehensive risks of different canal sections of water transfer projects.



21: 2021/06754. 22: 2021/09/13. 43: 2021/09/17
51: G06F

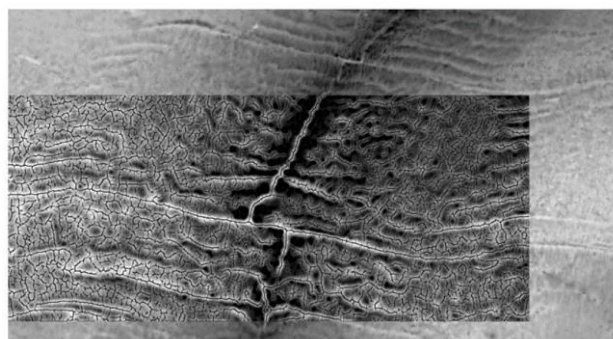
71: The First Institute of Oceanography, MNR, Pilot National Laboratory for Marine Science and Technology (Qingdao)

72: Yan Shijuan, Shi Xinyu, Yang Gang, Zhu Zhiwei, Ren Xiangwen, Li Chuanshun, Ye Jun, Du Dewen, Yang Fengli, Hou Chengfei

54: A NEW METHOD FOR ANALYSIS AND EXTRACTION OF LINEAR ANOMALIES IN SUBMARINE HYDROTHERMAL PROSPECTIVE ZONES

00: -

The invention discloses a new method for analysis and extraction of linear anomalies in submarine hydrothermal prospective zones. Preliminary linear features are extracted; pattern analysis and filtering processing are carried out on the obtained linear features. Firstly, the obtained image is segmented and the color image is converted into gray image; carry out binarization on the obtained image, denoise the image by using a Gaussian low-pass filter, perform morphological opening operation on the binary image obtained after denoising, remove small objects in the region, invert the refined region as noise, and continue to refine the linear region in the image; carry out morphological expansion operation on the extracted noise linear image, and all the extracted short line-types are removed from the regional image to obtain the effective line-types in the image. The method provided by the invention has the beneficial effect that good results are obtained by performing linear extraction processing on abnormal data with linear features.

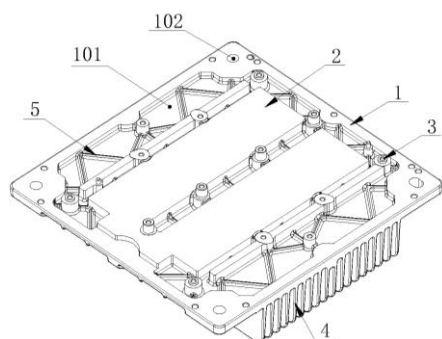


21: 2021/06757. 22: 2021/09/13. 43: 2021/10/14
51: B62D
71: TAIZHOU ZHITONG TECHNOLOGY CO. LTD
72: FEN CHEN, WANHUI ZHANG

54: EFFICIENT HEAT-DISSIPATION CONTROLLER FOR AUTOMOBILE AND PROTECTIVE SHELL THEREOF

00: -

The present invention discloses an efficient heat-dissipation controller for an automobile, which comprises a control circuit board and a protective shell. The protective shell comprises a cover body and a baseplate which are fitted; a groove used for accommodating the control circuit board is formed in the inner side surface of the baseplate, and a lug boss used for installing and bolstering the control circuit board and fixation holes used for fixing the control circuit board are disposed in the groove; a group of heat-dissipation fins are disposed at intervals on the outer side surface of the baseplate, and the heat-dissipation fins are disposed in parallel along a length direction of the baseplate; and a plurality of through holes used for installation and fixation are formed in two side edges of the baseplate.

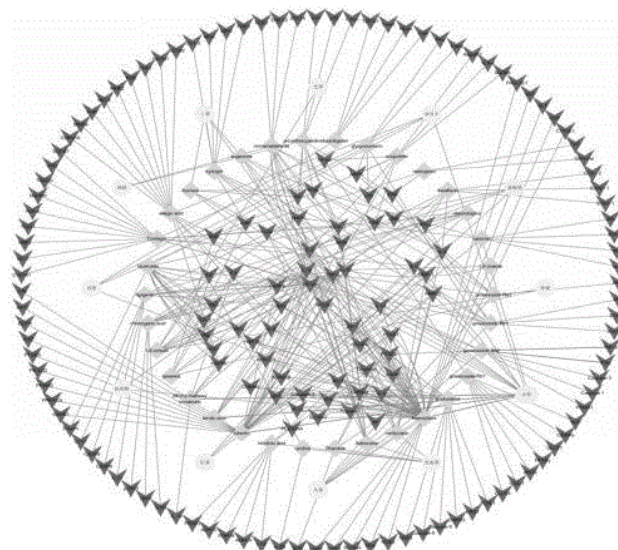


21: 2021/06786. 22: 2021/09/14. 43: 2021/09/30
51: A61K
71: Shenzhen Institute of Geriatrics, Wu Zhengzhi
72: Wu Zhengzhi, Liang Shaoyu, Zeng Yongchang, Hu Shengquan, Jia Dan, Li Ziwen, Liu Zhanyan
54: A CHINESE MEDICINAL COMPOSITION FOR STRENGTHENING BODY RESISTANCE, ANTIVIRAL AND EPIDEMIC PREVENTION, AND ITS PREPARATION METHOD

00: -

This invention provides a Chinese medicinal composition for strengthening body resistance, antiviral and epidemic prevention, and its preparation method, which comprises the following material in parts by mass: 0.2-5 parts of Panax ginseng C. A. Meyer, 1-10 parts of Cordyceps militaris, 1-15 parts of Kaempferia galanga Linn, 1-

15 parts of Amomum tsaoko Crevost et Lemarie, 1-20 parts of Lonicera japonica, 1-15 parts of Phyllanthus emblica, 1-20 parts of Artemisia argyi, 0.5-3 parts of Syzygium aromaticum, 1-10 parts of Cinnamomum cassia, 1-10 parts of Glycyrrhiza uralensis Fisch, 1-10 parts of pine pollen, 1-20 parts of Black tea, 0.5-5 parts of Chitosan oligosaccharide, furthermore, this invention provides the method of preparing the Chinese medicinal composition. The network research results of formula components-target points-pharmacological action mechanism of the Chinese medicinal composition for strengthening body resistance, antiviral and epidemic prevention are consistent with the main diseases, and conform to the principles of modern precision medicine. Meanwhile, the product has low cost and meets the needs of industrial production.

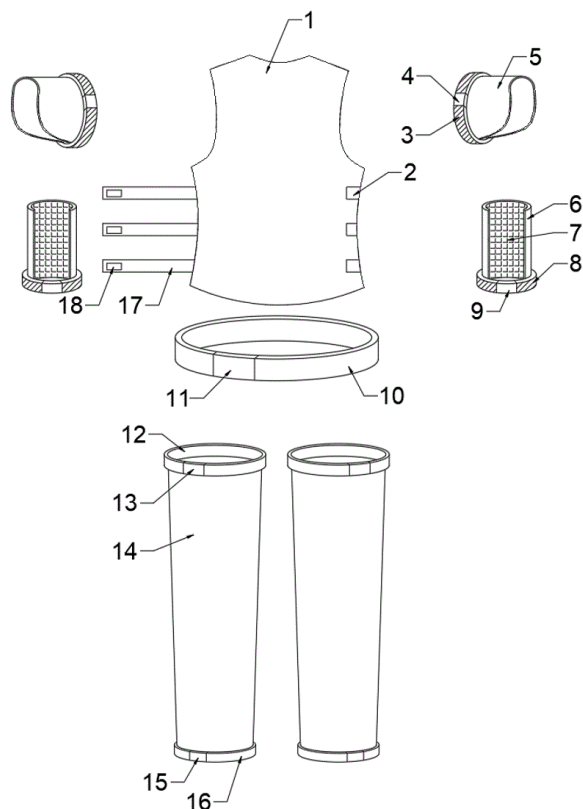


21: 2021/06787. 22: 2021/09/14. 43: 2021/09/30
51: C04B
71: NORTH CHINA UNIVERSITY OF SCIENCE AND TECHNOLOGY
72: LI, Zhihui, LONG, Yue, DU, Peipei, XING, Lei, QIU, Mingwei, ZHAO, Pengyue
33: CN 31: 202010972023.4 32: 2020-09-16
54: METHOD FOR DIRECTLY PREPARING FOAMING MATERIAL BY USING BLAST FURNACE SLAG

00: -

A method for directly preparing a foaming material by using blast furnace slag is disclosed, comprising the following steps: mixing blast furnace slag with a modifying agent, to obtain modified slag; mixing a foaming agent with a foam stabilizer to obtain a

mixed material; mixing the modified slag with the mixed material and a fluxing agent, and foaming, to obtain a foaming material; wherein the foaming temperature is 1100-1200°C, and the foaming time is 20-30min; the foaming material is prepared from raw materials including the following components: 73.5-83.5wt% of blast furnace slag, 5-10wt% of modifying agent, 0.5-1.5wt% of foaming agent, 5-7wt% of foam stabilizer, and 6-8wt% of fluxing agent.



21: 2021/06788. 22: 2021/09/14. 43: 2021/09/30

51: A63B

71: Guizhou University of Engineering Science

72: Hu Xian

54: AUXILIARY DEVICE FOR BALLET TRAINING THAT IS CONVENIENT FOR CORRECTING DANCING POSTURES

00: -

The invention discloses an auxiliary device for ballet training that is convenient for correcting dancing postures, comprising a vest, a shoulder pad mechanism, a wristband mechanism, a waist mechanism and a leg mechanism, wherein the vest is sewn together with vest surface 1 and vest surface 2; it has an interlayer inside, and the main control board is placed in the interlayer; wherein the main control board includes PCB circuit board, main control chip, power supply, wireless transceiver, speaker and auxiliary electronic components; wherein the shoulder pad mechanism includes a shoulder strap to which two shoulder strap buckles are added. Compared with the prior art, the advantages of the invention include simple and exquisite structure, reasonable selection of parts, connection methods and overall working methods, simple and reasonable production methods and use methods; it can effectively perform real-time monitoring and correction of various parts of the user's body when dancing to avoid the risk of injury. Overall, it has good applicability and beautiful appearance and is easy to promote.

21: 2021/06789. 22: 2021/09/14. 43: 2021/09/30

51: A61M

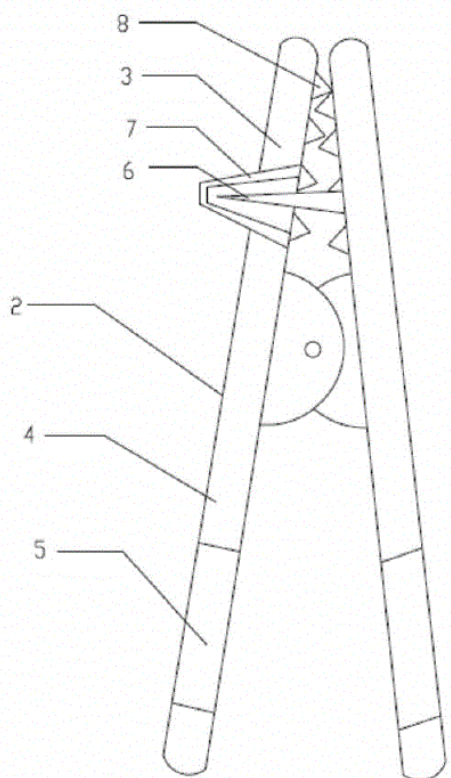
71: Huzhou University

72: Yao jinlan, Shen xuhui

54: PORTABLE URINE BAG AND ITS CLAMPING HEAD

00: -

The invention discloses a portable urine bag and its clamping head, which comprises a pair of clamping parts that are oppositely arranged to each other, and are fixed together through clamp springs with function of opening and closing. The clamping parts comprises clamping ends and the opening and closing end, and through holes are formed on the opening and closing end, and mutually matched locking mechanisms are formed on the clamping ends of the two clamping parts. According to the invention, the clip can be stably fixed on the clothes of the patient through the matching of the nail head and the groove or other locking modes, so that the action of the patient is facilitated, the secondary injury to the patient is avoided, and the nursing operation is simplified.



21: 2021/06790. 22: 2021/09/14. 43: 2021/09/30
51: A01M; B64C; B64D
71: Tobacco Research Institute of Chinese Academy of Agricultural Sciences (Qingzhou Tobacco Research Institute of China National Tobacco Company), China Tobacco Guangxi Industrial Co., Ltd.

72: WANG, Jie, JIA, Haijiang, HUANG, Chongjun, WEI, Jianyu, HUANG, Bin, WANG, Jing, WANG, Fenglong, REN, Guangwei

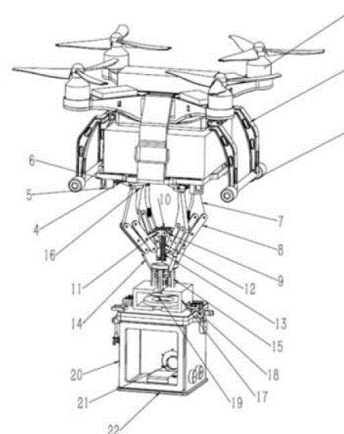
33: CN 31: 202110348416.2 32: 2021-03-31

54: PESTICIDE SPRAYING DEVICE BASED ON UNMANNED AERIAL VEHICLE AND CONTROL METHOD THEREOF

00: -

A pesticide spraying device based on an unmanned aerial vehicle which comprises a bridging mechanism, wherein the bridging mechanism comprises a plurality of connecting blocks which are connected with a first guide rod, the first guide rod is provided with a second guide rod, and the second guide rod is connected with a fixed bottom plate which is connected with a reinforcing stick, and the reinforcing stick is connected with a pressing block. The spraying device comprises an exchange valve and a spraying tank body connected with the

exchange valve, wherein the spraying tank body is connected with a pushing block which is connected with an electric cylinder. The second guide rod is connected with a third guide rod which is connected with a moving block which is connected with a top block.



21: 2021/06791. 22: 2021/09/14. 43: 2021/09/30

51: A01G; A01M; B64D

71: Tobacco Research Institute of Chinese Academy of Agricultural Sciences (Qingzhou Tobacco Research Institute of China National Tobacco Company)

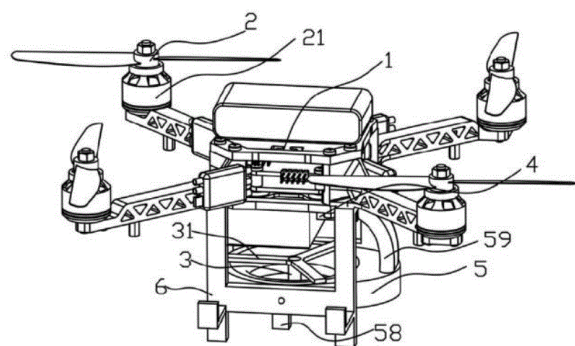
72: WANG, Jie, HUANG, Bin, WANG, Jing, WANG, Fenglong, REN, Guangwei

33: CN 31: 202110373920.8 32: 2021-04-07

54: SPRAY UNMANNED AERIAL VEHICLE

00: -

The invention relates to a spraying unmanned aerial vehicle, comprising a main body, and a rotor wing and a spray head arranged on the main body, characterized by further comprising a fan and a wind ring portion with an annular wind-out gap. The wind ring portion is connected with the fan through a wind inlet, and the fan drives the air to enter the wind ring portion from the wind inlet and to be discharged from the annular wind-out gap to form an annular wind wall. Due to the arrangement of the wind ring portion with the annular wind-out gap, the air flows out of the annular wind-out gap to form the annular wind wall such that liquid medicine fogdrops are protected.



21: 2021/06792. 22: 2021/09/14. 43: 2021/09/30
51: F15B

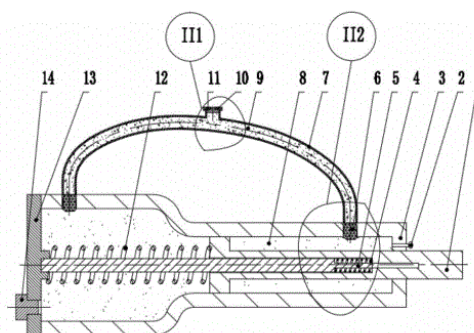
71: SONG, Yanhong

72: SONG, Yanhong, MA, Li

54: INCOMING OIL MEASUREMENT INDICATOR OF HYDRAULIC PIPELINE AND DETECTION METHOD

00: -

The invention relates to an incoming oil measurement indicator of a hydraulic pipeline and a detection method. A large cavity end of a cylinder body is in threaded connection with a sealing cylinder cover, a liquid filling device is in threaded connection with the sealing cylinder cover, a small cavity oil replenishing device is in threaded connection with a small cavity end of the cylinder body, a T-shaped inner end of a T-shaped movable steel rod system piston is in sliding connection with an interior of a cylinder body, one end of the movable steel rod system is located in a seat on a sealing cylinder cover, the other end is located in the T-shaped movable steel rod system piston, and an annular piezoelectric ceramic is fixedly connected with a pressure signal conversion piston and is fixedly connected with an opening of the indication pipeline.



21: 2021/06793. 22: 2021/09/14. 43: 2021/09/30
51: A01N; H04L

71: Inner Mongolia Academy of Agricultural & Animal Husbandry Sciences, Inner Mongolia Agricultural University, Wulanqab Bureau of Agriculture and Animal Husbandry

72: Xu Limin, Zhao Peiyi, Zhao Yuanzheng, Zhang Jun, Li Huanchun, Jia Ruifang, Guo Jingshan, Wang Dong, Zhi Xiaoqing, Hao Yulian

54: GREEN PREVENTION AND CONTROL METHODS OF POTATO LATE BLIGHT

00: -

The invention discloses a green prevention and control method for potato late blight. The predicting and forecasting system used in this method combines monitoring terminals, wireless GPRS communication, data analysis technology, geographic information system (GIS), disease knowledge, prevention and control strategies, WEB technology, etc., achieve real-time monitoring, early warning, diagnosis and scientific prevention and control of late blight information in potato monitoring sites; in terms of predicting and forecasting results, formulate effective prevention and control policies as well as adopt scientific and precise pesticide application methods, and adopt scientific prevention policies for areas where the early warning results do not occur. The combination of prevention and control measures for the prevention of pesticide in the early warning results improves the efficiency of prevention and control; the entire operation process is simple and the prevention effect is obvious. The early warning system can accurately predict the best prevention and control and the pesticide application time, avoid the problems of pesticide abuse and irrational pesticide use caused by blind pesticide use for insurance, not only reduce the problem of low

pesticide input and utilization rate, but also reduce farmland pollution, improve prevention and control effect, and meet the development needs of green ecological agriculture.

21: 2021/06794. 22: 2021/09/14. 43: 2021/09/30
51: A01G

71: Tea Research Institute, Yunnan Academy of Agricultural Sciences

72: Tang Yichun, Liu Benying, Yang Shengmei

54: RAPID PROPAGATION METHOD OF WILD TEA PLANT (CAMELLIA TALIENSIS)

00: -

The invention discloses a rapid propagation method of wild tea plant (*camellia taliensis*), which specifically comprises the following steps: preparing tea rootstock; treating wild tea plant branches; grafting; managing after grafting; keeping branches; arranging seedbed; constructing shade shed; treating cuttings; watering timely; eliminating weeds frequently and applying fertilizer reasonably; controlling pest; hardening seedlings. According to the invention, a small amount of wild tea plant (*camellia taliensis*) branches are collected and then grafted with cultivated tea trees, so that a relatively stable grafting survival rate is obtained. The propagation coefficient of wild tea plant (*camellia taliensis*) is effectively improved by conventional cuttage technology, while the genetic composition of wild tea plant (*camellia taliensis*) is retained and wild tea plant (*camellia taliensis*) is used as scion, which achieved the aim of efficient and rapid propagation of wild tea plant (*camellia taliensis*) in a short time, and has important practical significance for propagation of rare and endangered wild tea plant (*camellia taliensis*).

21: 2021/06795. 22: 2021/09/14. 43: 2021/09/30
51: A01B

71: Wenzhou Wangjinhu New Type Handling Equipment Technology Co., Ltd.

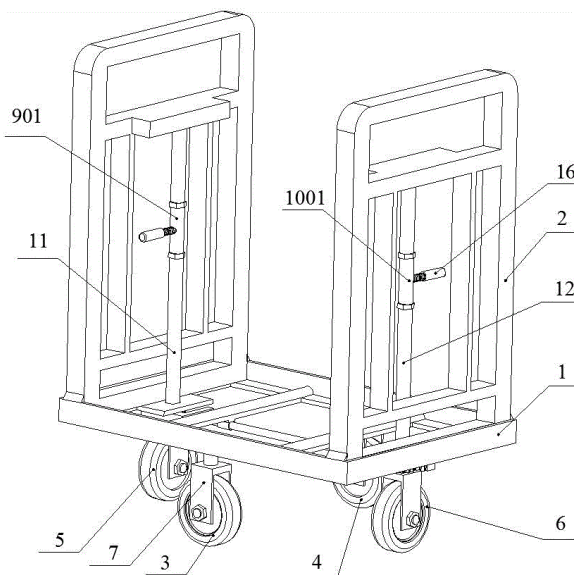
72: WANG, Jinhu

54: FOUR-WHEEL CART CAPABLE OF STEERING IN SITU

00: -

The present disclosure relates to a four-wheel cart. The four-wheel cart includes a cart frame, a handle connected to the cart frame, a fixed left roller and a fixed right roller arranged at the middle positions of

two sides of the cart frame, and a steerable front roller and a steerable rear roller arranged at the middle positions of the front end and the rear end of the cart frame. Rotating linkage mechanisms that rotate synchronously in opposite directions are arranged between a front roller bracket and a rear roller bracket. The four-wheel cart of the present disclosure can keep moving forwards in a straight line very easily, and can also realize steering in situ.



21: 2021/06796. 22: 2021/09/14. 43: 2021/10/14
51: A61K; A61P

71: NORTHEAST AGRICULTURAL UNIVERSITY

72: LI, JICHANG, WU, ZHIYONG, BAO, JIAXIN, CHEN, CHUNLI, LI, RUI

54: TRADITIONAL CHINESE MEDICINE COMPOSITION FOR PREVENTING AND TREATING MYCOPLASMA GALLISEPTICUM AND ESCHERICHIA COLI MIXED INFECTION OF POULTRY AND PREPARATION METHOD THEREOF

00: -

The present invention relates to the technical field of traditional Chinese medicine, and in particular to a traditional Chinese medicine composition for preventing and treating *Mycoplasma gallisepticum* and *Escherichia coli* mixed infection of poultry and a preparation method thereof. The present invention comprising the following raw materials in parts by weight: 1-14 parts of *Radix isatidis*, 1-7 parts of *Fructus forsythiae*, 1-11 parts of *Cortex mori radices*, 1-12 parts of *Folium ginkgo*, 0.3-5 parts of *Liquorice root* and 0.3-3 parts of *Radix salviae miltiorrhizae*. All

the raw materials are mixed, added with water and decocted. The decoctions are combined and filtered. The filtrate is concentrated and dried to obtain a dry paste and the obtained dry paste is crushed into fine medicinal powder to obtain the composition.

21: 2021/06826. 22: 2021/09/17. 43: 2021/10/15

51: A23K

71: HEILONGJIANG ACADEMY OF AGRICULTURAL SCIENCES

72: LIU, Di, YU, Xiaolong, WU, Saihui, HE, Xinmiao, XIA, Jiqiao, WANG, Wentao, ZHANG, Haifeng, TIAN, Ming, LIU, Ziguang, FENG, Yanzhong, CHEN, Heshu, WANG, Liang, QI, Meiyu, HE, Haijuan

54: NATURAL PLANT ADDITIVE FOR IMPROVING REPRODUCTIVE PERFORMANCE OF SOWS AND PREPARATION METHOD THEREOF

00: -

Disclosed is a natural plant additive for improving reproductive performance of sows and preparation method thereof, and belongs to the technical field of feed additives including two parts: (A) includes *Rhizoma atractylodis*, *Cinnamomum cassia* presl, *Lonicera japonica*, malt, *Astragalus mongholicus* Bunge, tangerine peel, *Poria cocos*, dandelion and *Glycyrrhiza uralensis* Fisch, as prenatal feeding; (B) includes *Desertliving cistanche*, *Leonurus japonicas*, peach seed, *Radix angelicae sinensis*, *Astragalus mongholicus* Bunge, *Fructus chaenomelis*, tangerine peel, hawthorn, *Portulaca oleracea*, dandelion and *Glycyrrhiza uralensis* Fisch, as postnatal feeding. By following characteristics of the sows, different components of the additive is used at both stages, for higher pertinence; a defect that the reproductive performance of the sows cannot be improved by utilizing natural plants is overcome; with the adoption of the additive, 21-day weight and weaning weight of litter is increased; an interval from weaning to estrus is shortened, improving reproductive performance of the sows.

21: 2021/06864. 22: 2021/09/17. 43: 2021/10/13

51: G12B

71: SHANGHAI OCEAN UNIVERSITY

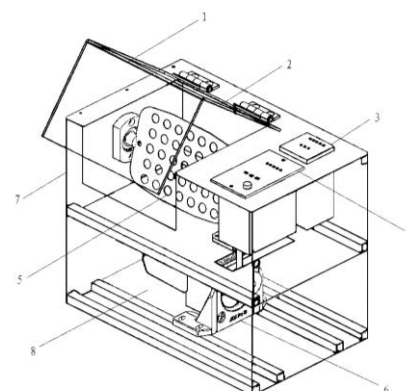
72: ZHAO, Yong, WU, Qian, ZHANG, Zhaohuan, HUANG, Zhenhua, LIU, Jing, TAO, Qian

33: CN 31: 202110082274.X 32: 2021-01-21

54: RAPID VIABLE DNA SCREENING INSTRUMENT AND USE METHOD AND APPLICATION THEREOF

00: -

Disclosed are a rapid viable DNA screening instrument and a use method and application thereof. The rapid viable DNA screening instrument comprises a PMA top cover, LED blue light sources, and a rectangular box structure in which an upper box body with a groove structure and a lower box body with a built-in motor are fixedly connected as a whole. The rapid viable DNA screening instrument further comprises a digital display timer, a digital display rotary regulator, and a rotary mixer which are disposed in the upper box body, wherein the rotary mixer is fixed in parallel at an inner side of the groove of the upper box body and are able to rotate along a central axis of the upper box body, and a plurality of sample placement holes are evenly distributed in the rotary mixer. Multiple LED blue light sources are evenly distributed in the upper box body.



21: 2021/07024. 22: 2021/09/21. 43: 2021/10/14

51: B01J; C07C; C07D

71: Jiangnan University

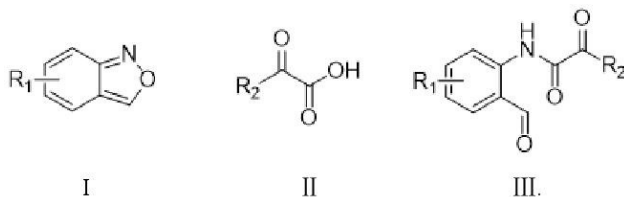
72: Lianghua ZOU, Ce WANG, Zeyu SHAO, Shuke YANG, Hao QIN, Shuang LIU, Kailing ZHANG, Yuanyuan CHEN

54: A SYNTHETIC METHOD FOR A-KETOAMIDE COMPOUND OF ORTHO ALDEHYDE GROUP

00: -

The present invention discloses a synthetic method for a-ketoamide compound of ortho aldehyde group. Specifically, dissolve the Benzo[c]isoxazole shown in formula I and the benzoyl formic acid shown in formula II in an organic solvent, then implement

reaction in an inert atmosphere under the action of catalyst. After that, purify the produced reaction liquid, and thus, the α -ketoamide compound of the ortho aldehyde group shown in formula III can be obtained. In addition, the present invention utilizes raw materials which are low cost, green and eco-friendly, and minimizes the use of catalysts, as well as with high catalytic efficiency. Furthermore, the range of application of the substrate is broad.



21: 2021/07039. 22: 2021/09/21. 43: 2021/10/14
51: E05B; G06T; G07C; H04N
71: FUYANG WANRUI ELECTRONIC LOCKS CO. LTD

72: Weizhong LIN

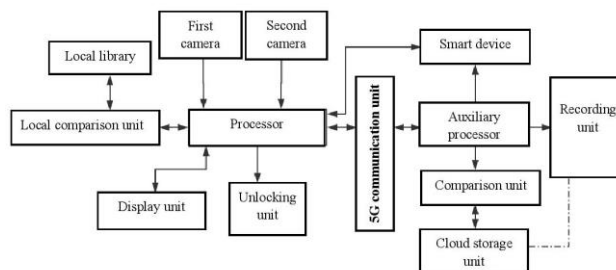
33: CN 31: 202010152663.0 32: 2020-03-06

54: A FACIAL RECOGNITION SMART LOCK CONTROL SYSTEM BASED ON 5G TECHNOLOGY

00: -

The invention discloses a facial recognition smart lock control system based on 5G technology, which includes a processor, a local comparison unit, a local library, a first camera, a second camera, an unlocking unit, a 5G communication unit, an auxiliary processor, and a smart device, comparison unit, cloud storage unit, recording unit, display unit. The present invention compares the received first portrait information with the user portrait information stored in the local database through the local comparison unit, and judges whether the first portrait information is user portrait information and the processor will perform the unlocking step according to the judgment result of the local comparison unit. The comparison unit compares the received first portrait information with the portrait information in the cloud storage unit, and determines whether the first portrait information is visitor portrait information or stranger portrait information, and intelligently identifies households, common visitors, and strange visitors. According to the second portrait information, it is judged whether someone exists, and the judgment result is combined to unlock, which

improves the intelligence of the smart lock and the user's experience.



21: 2021/07072. 22: 2021/09/22. 43: 2021/10/14
51: A61B

71: GUPTA, Bhumika, VERMA, Agya Ram

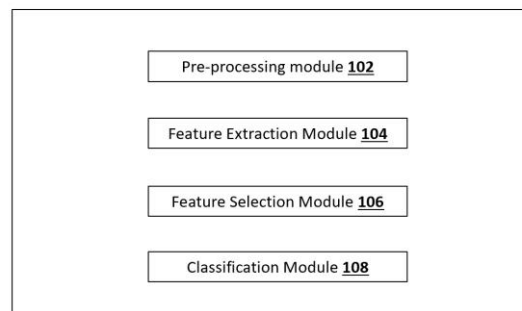
72: GUPTA, Bhumika, VERMA, Agya Ram

54: ECG SIGNAL CLASSIFICATION SYSTEM AND METHOD BASED ON FPA AND COMPACT MULTIPLE CLASS SVM

00: -

The present invention generally relates to a system and method for ECG signal classification based on floral pollination algorithm (FPA) and Compact Multiple Class Support Vector Machines (CMSVM). The key component of present system is to find a collection of specific features that can achieve the best precision. The proposed method seeks the best value of classification parameters that best suits their discriminatory function. The simulation results showed that the proposed classifier provided the best combination results for FPA with MSVM. The proposed method helps to detect irregular beats automatically, which can help boost emergency alert for cardiovascular patients.

100



21: 2021/07099. 22: 2021/09/23. 43: 2021/10/14
51: G06K

71: Henan Agricultural University

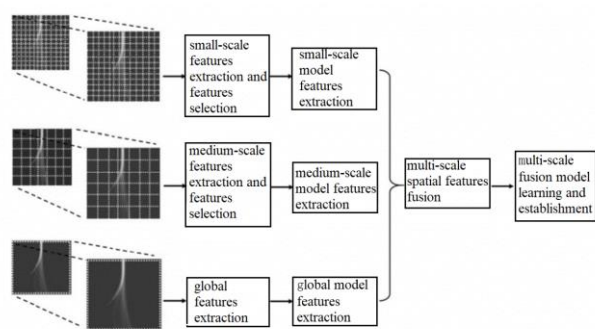
72: Tong Sun, Hui Zhang, Xiaoyun Sun, Hongbo Qiao, Yuanyuan Fu, Jibo Yue, Ziteng Li, Liangliang Liu, Shufeng Xiong

33: CN 31: 202110981213.7 32: 2021-08-25

54: HIGH FIELD ASYMMETRIC ION MOBILITY SPECTROMETRY (FAIMS) CLASSIFICATION AND RECOGNITION METHOD, DEVICE AND EQUIPMENT THEREOF

00: -

The invention discloses a classification and recognition method for high field asymmetric ion mobility spectrum, which is based on the technical route of multi-scale spatial information fusion of the dynamic spectrum of the test sample and the spectrum, comprising: each test sample being repeatedly measured to obtain a group of spectrum samples, so to obtain all dynamic spectra; each test sample comprising multiple known samples as training data; extracting features on a multi-scale spatial domain based on the dynamic spectra of each test sample respectively; the multi-scale fusion features being obtained based on the features extracted from multi-scale spatial domains and fusion of the features; establishing a classification and recognition model of multi-scale information fusion based on the multi-scale fusion features; the classification and recognition of high field asymmetric ion mobility spectra being carried out based on the classification and recognition model. The corresponding device is also disclosed. The method and device carry out adaptive FAIMS spectra classification and recognition, without losing the effective information; The redundant information and noise interference are small, the cost of model establishment is small, and the robustness is strong.



21: 2021/07441. 22: 2021/10/04. 43: 2021/10/08
51: C12Q

71: GUANGDONG UNIVERSITY OF PETROCHEMICAL TECHNOLOGY

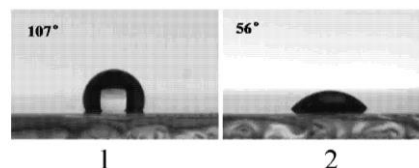
72: BI, Hongmei, SHI, Guobin, CHEN, Zeqin, QIU, Jiaqin, CHEN, Qianling

33: CN 31: 202110930261.3 32: 2021-08-13

54: METHOD FOR SEPARATING CHOLESTEROL IN PHOSPHOLIPID MEMBRANE USING MODIFIED BASE

00: -

An objective of the present invention is to provide a method for separating cholesterol in a phospholipid membrane using a modified base, to solve the problem that there is yet no method for separating cholesterol in a phospholipid membrane. The method for separating cholesterol in a phospholipid membrane using a modified base, characterized in that the method is specifically implemented by the following steps: firstly, modifying hydrophobic groups on a surface of a glass base, and secondly spreading a phospholipid membrane on the base.



21: 2021/07467. 22: 2021/10/04. 43: 2021/10/08
51: G01N

71: NANJING INSTITUTE OF COGNITIVE IOT

72: LIU, Hehui, WANG, Liming, LI, Guozhi, LIU, Xiyang

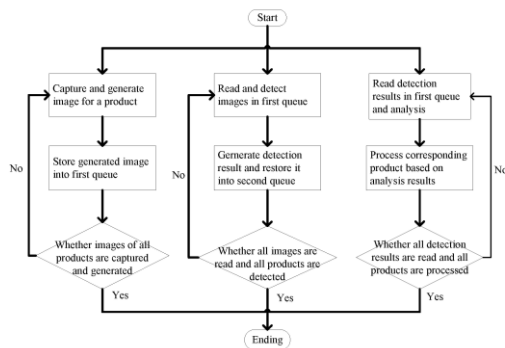
33: CN 31: 202010709986.5 32: 2020-07-22

54: METHOD AND DEVICE FOR INTELLIGENT PRODUCT QUALITY DETECTION

00: -

The present invention relates to the field of industrial intelligence and more particularly to a method and a device for intelligent product quality detection, in which the method includes the following steps: performing image data acquisition on a product, detecting the product according to the acquired image data to generate a detection result, and performing analysis according to the detection result and processing the product. The image data and the detection result are set with a storage time limit. The device includes an image acquisition module, a storage module, a detection module, a processing module, and an intelligent management module. The image acquisition module performs image data

acquisition on the product. The detection module detects the product according to the image data. The processing module reads a product detection result from the storage module, and performs analysis according to the detection result and performs subsequent processing on the corresponding product.



HYPOTHECATIONS

No records available

JUDGMENTS

No records available

OFFICE PRACTISE NOTICES

the dtic
Department:
Trade, Industry and Competition
REPUBLIC OF SOUTH AFRICA

**NOTIFICATION OF THE PATENT EXAMINATION BOARD IN TERMS OF SECTION 21
OF THE PATENT ACT 1978**

THE PATENT EXAMINATION BOARD

The Patent Examination Board, in terms of section 21 of the Patents Act, 1978 (Act No. 57 of 1978) and regulation 12 of the Patent Examination Regulations 2018, hereby calls for nominations of a) course convenors and examiners and b) moderators for the period of three years commencing January 2022 in the following subjects:

- 1(a) Legal framework for the protection of intellectual property in South Africa, with a focus on trade marks, copyright, plant breeders' rights and international treaties relevant to patent law
- 1(b) SA patent law and practice
- 1(c) SA design law and practice
- 2(d) Selected international patent laws, systems, conventions and treaties
- 2(e) The drafting of patent specifications
- 2(f) Practical legal problems with regard to patents
- 2(g) Patent attorney's practice
- 2(h) Interpretation of Drawings

Candidates are requested to email their CVs to Ms Sandra Clelland (sclelland@vonseidels.com), before 30 November 2021. Please indicate whether you are applying for the position of a) convenor and examiner or b) moderator, and the relevant subject 1(a) to 2(h).

Ms Sandra Clelland
Chairperson
Patent Examination Board
15 October 2021

Chairperson : Ms Sandra Clelland
Members : Ms Shanaaz Mahomed, Mr Paul Sibisi, Mr Johnny Fiandeiro & Dr Mavis Nyatlo
Secretariat : Ms Sheperd Khanyisa Chauke



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NOTIFICATION OF THE PATENT EXAMINATION BOARD IN TERMS OF SECTION 21 OF THE PATENT ACT 1978

PATENT EXAMINATION BOARD

The Patent Examination Board, in terms of Section 21(3)(a)(ix)(bb) of the Patents Act, 1978, has issued certificates to the persons listed below who have passed the prescribed examinations in 2021.

1. Jakobus Johannes du Raan
2. Alwyn Bernard Dippenaar
3. Petrus Johannes Steynberg

Sandra Clelland
Chairperson
Patent Examination Board
18 October 2021

Chairperson	: Ms Sandra Clelland
Members	: Ms Shanaaz Mahomed, Mr Paul Sibisi, Mr Johnny Fiandeirol & Dr Mavis Nyatlo
Secretariat	: Ms Sheperd Khanyisa Chauke

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 2021/09/27 -

A2021/01172 - MARK FINESTONE Class 12. CARRIER, CLAMP AND VERTICAL SUPPORT FOR A BICYCLE RACK

F2021/01171 - Phallox (Pty) Ltd Class 24. PENILE EXTENDER DEVICE

A2021/01173 - MANITOU ITALIA S.R.L. Class 12. MOBILE CRANE

. - APPLIED ON 2021/09/28 -

A2021/01174 - GREAT WALL MOTOR COMPANY LIMITED Class 12. AUTOMOBILE

. - APPLIED ON 2021/09/29 -

A2021/01182 - Hyper Ice, Inc. Class 28. MASSAGING DEVICES

A2021/01180 - Colgate-Palmolive Company Class 4. ORAL CARE IMPLEMENTS

A2021/01177 - Barry Callebaut AG Class 19. LABELS

A2021/01183 - 453i Class 14. SCREEN DISPLAY OR PORTION THEREOF WITH A GRAPHICAL USER INTERFACE FOR A DIGITAL CARD

A2021/01184 - KONINKLIJKE PHILIPS N.V. Class 31. BLENDER

A2021/01176 - LK PRODUCTS (PTY) LTD Class 07. A POT

A2021/01181 - Hyper Ice, Inc. Class 24. MASSAGING DEVICES

A2021/01178 - Colgate-Palmolive Company Class 4. ORAL CARE IMPLEMENTS

F2021/01175 - TJM PRODUCTS PTY LTD Class 15. AIR COMPRESSORS

A2021/01179 - Colgate-Palmolive Company Class 4. ORAL CARE IMPLEMENTS

A2021/01185 - KONINKLIJKE PHILIPS N.V. Class 31. BLENDER

. - APPLIED ON 2021/09/30 -

A2021/01195 - MANITOU ITALIA S.R.L. Class 12. PART OF A CABIN FOR A VEHICLE

A2021/01188 - MANITOU ITALIA S.R.L. Class 12. PROTECTIVE GRILLES AND BARS FOR VEHICLES

A2021/01190 - MANITOU ITALIA S.R.L. Class 12. PART OF LIFTING VEHICLES

A2021/01192 - MANITOU ITALIA S.R.L. Class 12. CENTRAL CONSOLE FOR VEHICLES

A2021/01198 - CRAFT STANDARD ENTERPRISES, INC. Class 9. FILLING APPARATUS FOR A CONTAINER

A2021/01186 - CRAFT STANDARD ENTERPRISES, INC. Class 9. FILLING APPARATUS FOR A CONTAINER

A2021/01201 - CRAFT STANDARD ENTERPRISES, INC. Class 9. KEG SPIKER CONFIGURATION

A2021/01194 - MANITOU ITALIA S.R.L. Class 12. PART OF A CABIN FOR A VEHICLE

A2021/01203 - CRAFT STANDARD ENTERPRISES, INC. Class 9. KEG SPIKER CONFIGURATION

A2021/01196 - MANITOU ITALIA S.R.L. Class 12. HANDRAIL FOR A VEHICLE

A2021/01204 - MANITOU ITALIA S.R.L. Class 12. PART OF A LIFTING VEHICLE

A2021/01200 - MANITOU ITALIA S.R.L. Class 26. LIGHT FOR A VEHICLE

A2021/01202 - CRAFT STANDARD ENTERPRISES, INC. Class 9. KEG SPIKER CONFIGURATION

A2021/01189 - MANITOU ITALIA S.R.L. Class 12. STEPLADDER FOR LIFTING VEHICLES

A2021/01191 - MANITOU ITALIA S.R.L. Class 12. PART OF LIFTING VEHICLES

A2021/01205 - Beijing Kuaimajiabian Technology Co., Ltd. Class 32. A GRAPHICAL USER INTERFACE

A2021/01206 - Beijing Kuaimajiabian Technology Co., Ltd. Class 32. A GRAPHICAL USER INTERFACE

A2021/01197 - CRAFT STANDARD ENTERPRISES, INC. Class 9. FILLING APPARATUS FOR A CONTAINER

A2021/01199 - CRAFT STANDARD ENTERPRISES, INC. Class 9. KEG SPIKER CONFIGURATION

A2021/01187 - CRAFT STANDARD ENTERPRISES, INC. Class 9. FILLING APPARATUS FOR A CONTAINER

A2021/01193 - MANITOU ITALIA S.R.L. Class 12. CABIN FOR A VEHICLE

. - APPLIED ON 2021/10/01 -

A2021/01207 - Beijing Kuaimajiabian Technology Co., Ltd. Class 32. A GRAPHICAL USER INTERFACE

. - APPLIED ON 2021/10/04 -

F2021/01212 - TENTHOUSE STRUCTURES (PTY) LTD Class 25. A SET OF STRUCTURAL MEMBERS

A2021/01208 - ROCK SOLID INDUSTRIES INTERNATIONAL (PTY) LTD Class 12. SEALING ELEMENT FOR A VEHICLE CANOPY

F2021/01211 - VAN ZYL, Vincent Vernon Class 23. DRAINAGE FITTING

F2021/01210 - SKYCORP DISTRIBUTIONS (PTY) LTD Class 21. A CONSTRUCTION SET FOR A TOY CAR

F2021/01209 - ROCK SOLID INDUSTRIES INTERNATIONAL (PTY) LTD Class 12. SEALING ELEMENT FOR A VEHICLE CANOPY

A2021/01213 - PINGYUAN SUN Class 7. ELECTRICAL HOT PLATE STOVE

- APPLIED ON 2021/10/05 -

A2021/01216 - HANSGROHE SE Class 23. FAUCET

A2021/01217 - DART INDUSTRIES INC. Class 7. CLAMSHELL CONTAINER

A2021/01214 - HANSGROHE SE Class 23. FAUCET

A2021/01215 - HANSGROHE SE Class 23. FAUCET

- APPLIED ON 2021/10/06 -

A2021/01219 - Beijing Zitiao Network Technology Co., Ltd. Class 32. A GRAPHICAL USER INTERFACE

A2021/01218 - RECKITT & COLMAN (OVERSEAS) HYGIENE HOME LIMITED Class 9. BOTTLE

A2021/01254 - Beijing Zitiao Network Technology Co., Ltd. Class 32. A GRAPHICAL USER INTERFACE

A2021/01256 - Beijing Zitiao Network Technology Co., Ltd. Class 32. A GRAPHICAL USER INTERFACE

A2021/01255 - Beijing Zitiao Network Technology Co., Ltd. Class 32. A GRAPHICAL USER INTERFACE

A2021/01248 - Beijing Zitiao Network Technology Co., Ltd. Class 32. A GRAPHICAL USER INTERFACE

A2021/01250 - Beijing Zitiao Network Technology Co., Ltd. Class 32. A GRAPHICAL USER INTERFACE

A2021/01245 - Beijing Zitiao Network Technology Co., Ltd. Class 32. A GRAPHICAL USER INTERFACE

A2021/01243 - Beijing Zitiao Network Technology Co., Ltd. Class 32. A GRAPHICAL USER INTERFACE

F2021/01225 - SIGNCRAFT AFRICA (PTY) LTD Class 25. BARRICADE SYSTEM

A2021/01235 - Beijing Zitiao Network Technology Co., Ltd. Class 32. A GRAPHICAL USER INTERFACE

A2021/01249 - Beijing Zitiao Network Technology Co., Ltd. Class 32. A GRAPHICAL USER INTERFACE

A2021/01252 - Beijing Zitiao Network Technology Co., Ltd. Class 32. A GRAPHICAL USER INTERFACE

A2021/01240 - Beijing Zitiao Network Technology Co., Ltd. Class 32. A GRAPHICAL USER INTERFACE

A2021/01242 - Beijing Zitiao Network Technology Co., Ltd. Class 32. A GRAPHICAL USER INTERFACE

A2021/01246 - Beijing Zitiao Network Technology Co., Ltd. Class 32. A GRAPHICAL USER INTERFACE

A2021/01244 - Beijing Zitiao Network Technology Co., Ltd. Class 32. A GRAPHICAL USER INTERFACE

A2021/01247 - Beijing Zitiao Network Technology Co., Ltd. Class 32. A GRAPHICAL USER INTERFACE

A2021/01222 - Beijing Zitiao Network Technology Co., Ltd. Class 32. A GRAPHICAL USER INTERFACE

A2021/01232 - Beijing Zitiao Network Technology Co., Ltd. Class 32. A GRAPHICAL USER INTERFACE

A2021/01233 - Beijing Zitiao Network Technology Co., Ltd. Class 32. A GRAPHICAL USER INTERFACE

A2021/01236 - Beijing Zitiao Network Technology Co., Ltd. Class 32. A GRAPHICAL USER INTERFACE

A2021/01231 - Beijing Zitiao Network Technology Co., Ltd. Class 32. A GRAPHICAL USER INTERFACE

A2021/01238 - SPRINGFIELD, INC. Class 22. PISTOL

A2021/01239 - SPRINGFIELD, INC. Class 22. PISTOL

A2021/01251 - Beijing Zitiao Network Technology Co., Ltd. Class 32. A GRAPHICAL USER INTERFACE

A2021/01253 - Beijing Zitiao Network Technology Co., Ltd. Class 32. A GRAPHICAL USER INTERFACE

A2021/01257 - Beijing Zitiao Network Technology Co., Ltd. Class 32. A GRAPHICAL USER INTERFACE

A2021/01227 - Beijing Zitiao Network Technology Co., Ltd. Class 32. A GRAPHICAL USER INTERFACE

A2021/01228 - Beijing Zitiao Network Technology Co., Ltd. Class 32. A GRAPHICAL USER INTERFACE

A2021/01237 - SPRINGFIELD, INC. Class 22. PISTOL

A2021/01241 - Beijing Zitiao Network Technology Co., Ltd. Class 32. A GRAPHICAL USER INTERFACE

A2021/01221 - Beijing Zitiao Network Technology Co., Ltd. Class 32. A GRAPHICAL USER INTERFACE

A2021/01226 - Beijing Zitiao Network Technology Co., Ltd. Class 32. A GRAPHICAL USER INTERFACE

A2021/01229 - Beijing Zitiao Network Technology Co., Ltd. Class 32. A GRAPHICAL USER INTERFACE

A2021/01230 - Beijing Zitiao Network Technology Co., Ltd. Class 32. A GRAPHICAL USER INTERFACE

A2021/01223 - Beijing Zitiao Network Technology Co., Ltd. Class 32. A GRAPHICAL USER INTERFACE

A2021/01224 - Beijing Zitiao Network Technology Co., Ltd. Class 32. A GRAPHICAL USER INTERFACE

A2021/01234 - Beijing Zitiao Network Technology Co., Ltd. Class 32. A GRAPHICAL USER INTERFACE

A2021/01220 - RECKITT & COLMAN (OVERSEAS) HYGIENE HOME LIMITED Class 9. BOTTLE

- APPLIED ON 2021/10/07 -

A2021/01259 - CRAFT STANDARD ENTERPRISES, INC. Class 9. FILLING APPARATUS FOR A CONTAINER

A2021/01258 - TOYOTA JIDOSHA KABUSHIKI KAISHA Class 26. FRONT COMBINATION LAMP FOR AN AUTOMOBILE

A2021/01261 - CRAFT STANDARD ENTERPRISES, INC. Class 9. FILLING APPARATUS FOR A CONTAINER

A2021/01270 - Beijing Kuaimajiabian Technology Co., Ltd. Class 32. A GRAPHICAL USER INTERFACE

A2021/01271 - Beijing Kuaimajiabian Technology Co., Ltd. Class 32. A GRAPHICAL USER INTERFACE

F2021/01272 - AJ Polytech Consultants CC T/A Polytech Inc Class 6. UPHOLSTERED BED BASE

F2021/01264 - AJ Polytech Consultants CC T/A Polytech Inc Class 6. BED BASE WRAP

A2021/01266 - Beijing Kuaimajiabian Technology Co., Ltd. Class 32. A GRAPHICAL USER INTERFACE

A2021/01267 - Beijing Kuaimajiabian Technology Co., Ltd. Class 32. A GRAPHICAL USER INTERFACE

A2021/01262 - CRAFT STANDARD ENTERPRISES, INC. Class 9. FILLING APPARATUS FOR A CONTAINER

F2021/01263 - AJ Polytech Consultants CC T/A Polytech Inc Class 6. BED BASE COVER

F2021/01265 - AJ Polytech Consultants CC T/A Polytech Inc Class 6. BED BASE TOP BOARD

A2021/01268 - Wetility Energy(Pty)Ltd Class 13. ELECTRIC EQUIPMENT BOX

A2021/01269 - Beijing Kuaimajiabian Technology Co., Ltd. Class 32. A GRAPHICAL USER INTERFACE

A2021/01260 - CRAFT STANDARD ENTERPRISES, INC. Class 9. FILLING APPARATUS FOR A CONTAINER

- APPLIED ON 2021/10/08 -

A2021/01273 - WAHL CLIPPER CORPORATION Class 28. NOSE HAIR TRIMMER

A2021/01274 - Piëch IP AG Class 12. WHEEL RIMS

A2021/01275 - Piëch IP AG Class 12. AUTOMOBILES

A2021/01276 - Dr. Ing. h.c. F. Porsche Aktiengesellschaft Class 12. AUTOMOBILES

- APPLIED ON 2021/10/11 -

A2021/01277 - Pule Maake Class 32. E-CERTIFY

- APPLIED ON 2021/10/12 -

F2021/01279 - Agriplas (Pty) Ltd Class 23. WATER SPRAYER COMPONENT

A2021/01278 - Agriplas (Pty) Ltd Class 23. WATER SPRAYER COMPONENT

- APPLIED ON 2021/10/13 -

A2021/01282 - Beijing Kuaimajiabian Technology Co., Ltd. Class 32. A GRAPHICAL USER INTERFACE

A2021/01283 - Beijing Kuaimajiabian Technology Co., Ltd. Class 32. A GRAPHICAL USER INTERFACE

A2021/01289 - KONINKLIJKE PHILIPS N.V. Class 07. HANDHELD GARMENT STEAMER

A2021/01290 - KONINKLIJKE PHILIPS N.V. Class 07. HANDHELD GARMENT STEAMER

A2021/01292 - KONINKLIJKE PHILIPS N.V. Class 07. HANDHELD GARMENT STEAMER

A2021/01284 - Beijing Kuaimajiabian Technology Co., Ltd. Class 32. A GRAPHICAL USER INTERFACE

A2021/01293 - KONINKLIJKE PHILIPS N.V. Class 07. HANDHELD GARMENT STEAMER

A2021/01291 - KONINKLIJKE PHILIPS N.V. Class 07. HANDHELD GARMENT STEAMER

A2021/01286 - Beijing Kuaimajiabian Technology Co., Ltd. Class 32. A GRAPHICAL USER INTERFACE

A2021/01287 - Beijing Kuaimajiabian Technology Co., Ltd. Class 32. A GRAPHICAL USER INTERFACE

A2021/01288 - KONINKLIJKE PHILIPS N.V. Class 07. HANDHELD GARMENT STEAMER

A2021/01280 - Beijing Kuaimajiabian Technology Co., Ltd. Class 32. A GRAPHICAL USER INTERFACE

A2021/01281 - Beijing Kuaimajiabian Technology Co., Ltd. Class 32. A GRAPHICAL USER INTERFACE

A2021/01285 - Beijing Kuaimajiabian Technology Co., Ltd. Class 32. A GRAPHICAL USER INTERFACE

. - APPLIED ON 2021/10/14 -

A2021/01294 - Biagi Saga Technologies (Pty) Ltd Class 06. A SAFE

F2021/01297 - ACTION DISTRIBUTION (PTY) LTD Class 03. AN ENCLOSURE

A2021/01295 - Biagi Saga Technologies (Pty) Ltd Class 06. A SAFE

F2021/01296 - Biagi Saga Technologies (Pty) Ltd Class 06. A SAFE

. - APPLIED ON 2021/10/15 -

A2021/01298 - FN Holdings (Pty) Ltd Class 20. ADXBAG

. - APPLIED ON 2021/10/18 -

F2021/01304 - GERHARDUS S VAN DER LINDE Class 99. FACE MASK

A2021/01301 - RAINBOWFIRE PRODUCTS (PTY) LTD Class 23. A FIRELIGHTER

A2021/01303 - GERHARDUS S VAN DER LINDE Class 99. FACE MASK

A2021/01299 - RAINBOWFIRE PRODUCTS (PTY) LTD Class 23. A FIRELIGHTER

F2021/01305 - SUN CONTROL LLC Class 25. BRACKET

A2021/01300 - RAINBOWFIRE PRODUCTS (PTY) LTD Class 23. A FIRELIGHTER

A2021/01306 - SATHASIVAN LOGANATHAN GOVENDER Class 21. BOARD GAME

A2021/01302 - RAINBOWFIRE PRODUCTS (PTY) LTD Class 23. A FIRELIGHTER

. - APPLIED ON 2021/10/19 -

A2021/01307 - Rainbowfire Products (Pty) Ltd Class 23. A FIRELIGHTER

A2021/01309 - Rainbowfire Products (Pty) Ltd Class 23. A FIRELIGHTER

A2021/01308 - Rainbowfire Products (Pty) Ltd Class 23. A FIRELIGHTER

A2021/01311 - CHAIRCLUB (PROPRIETARY) LIMITED Class 06. CHAIR

A2021/01310 - Rainbowfire Products (Pty) Ltd Class 23. A FIRELIGHTER

. - APPLIED ON 2021/10/20 -

A2021/01313 - DART INDUSTRIES INC. Class 7. RICE DISPENSER

A2021/01312 - DART INDUSTRIES INC. Class 23. WATER TREATMENT DEVICE

- APPLIED ON 2021/10/22 -

A2021/01316 - NORMAN THUTO RANGWETSI Class 10. TRIGGER CLASSIFICATION INSTRUMENT

A2021/01318 - MASERATI S.P.A. Class 21. SCALE CAR MODEL

A2021/01314 - KAMOGELO MARGARET RAPHADU Class 09. BINS

A2021/01317 - MASERATI S.P.A. Class 12. CAR

F2021/01315 - KAMOGELO MARGARET RAPHADU Class 09. BINS

APPLICATION FOR THE RESTORATION OF A LAPSED DESIGN UNDER SECTION 23 OF THE ACT

Notice is hereby given that: **PAUL LOUIS MEYER 5 The Avenue East Town, Gauteng South Africa** has made application for the restoration of the design registered to the said: **PAUL LOUIS MEYER** for the Design: **A CHAIR** application number: **A2014/00835** date: **27/05/2014** which become void on **27/05/2019** due to non-payment of the prescribed renewal fee.

Any person may give notice on Design Form No 11 of opposition to restoration of the design within two months of the advertisement hereof.

Registrar of Designs

Notice is hereby given that: **THE SCOTT FETZER COMPANY 28800 Clemens Road, Westlake, Ohio 4415 United States of America** has made application for the restoration of the design registered to the said: **THE SCOTT FETZER COMPANY** for the Design: **BRUSHES** application number: **A2010/01540** date: **17/11/2010** which become void on **22/07/2020** due to non-payment of the prescribed renewal fee. Any person may give notice on Design Form No 11 of opposition to restoration of the design within two months of the advertisement hereof.

Registrar of Designs

APPLICATION TO CORRECT AND/OR AMEND DESIGNS APPLICATION OR REGISTRATION

REPUBLIC OF SOUTH AFRICA

DESIGNS ACT, No. 195 OF 1993

APPLICATIONS TO CORRECT AND/OR AMEND DESIGNS APPLICATION OR REGISTRATION (SECTIONS 26, 27-REGULATION 41)

THE DESIGN APPLICATION TO BE CORRECTED OR AMENDED IS NOT YET OPEN FOR PUBLIC INSPECTION. THE PARTICULARS TO BE PUBLISHED SHALL BE THOSE SET OUT IN PART I. AN APPLICATION FOR CORRECTION OR AMENDMENT SO PUBLISHED MAY NOT BE INSPECTED AND MAY NOT BE OPPOSED

PART I

THE DESIGN APPLICATION TO BE CORRECTED OR AMENDED IS OPEN FOR PUBLIC INSPECTION. THE PARTICULARS TO BE PUBLISHED SHALL BE THOSE SET OUT IN PART II. AN APPLICATION FOR CORRECTION OR AMENDMENT SO PUBLISHED MAY BE INSPECTED AND MAY BE OPPOSED

PART II

Design no: **A2015/00397**

Applicant: **ROCK SOLID INDUSTRIES INTERNATIONAL (PTY) LTD**

Class: **12**

Article to which the design is applied: **CANOPY**

Date of lodgment: **09/03/2015**

Registrar of Designs

NOTICE OF REGISTRATION OF DESIGNS

Notice of registration of the designs mentioned below has been issued by the Registrar of Designs in terms of the Designs Act, 1993 (Act No. 195 of 1993)

INSPECTION OF DESIGNS

A design application, may after a notice of registration has been published, be inspected during office hours at the Designs Office, Pretoria, at a charge of R3, 00

COPIES OF DOCUMENTS

The Designs Office, Private Bag X400, Pretoria, supplies photocopies of all design documents at R1, 00 per page. (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: A2019/00996 22: 2019-07-23 23:
43: 2019-01-24

52: Class 12 24: Part A

71: MAN Truck & Bus SE

33: DE 31: 40 2019 100 093.3 32: 2019-01-24

54: CABINS FOR VEHICLES

57: The design relates to a cabin for a vehicle. The cabin comprises an operatively lower engine compartment and an operatively upper passenger compartment. A centrally located air intake is provided in a laterally extending front bumper. A number plate frame is located above the air intake and separates the air intake from a roughly trapezium-shaped radiator grille. A headlight cluster is provided at opposite ends of the bumper. The passenger compartment includes a flat roof, a large windscreen, a pair of opposing doors, side walls and a rear wall. A pair of side mirror supports extend from an upper and a lower front corner of a door window frame, respectively.



Figure 1

Three-dimensional view

21: A2019/00997 22: 2019-07-23 23:
43: 2019-01-24

52: Class 12 24: Part A

71: MAN Truck & Bus SE

33: DE 31: 40 2019 100 093.3 32: 2019-01-24

54: CABINS FOR VEHICLES

57: The design relates to a cabin for a vehicle. The cabin comprises an operatively lower engine compartment and an operatively upper passenger compartment. A centrally located air intake is provided in a laterally extending front bumper. A number plate frame is located above the air intake and separates the air intake from a roughly trapezium-shaped radiator grille. A headlight cluster

is provided at opposite ends of the bumper. The passenger compartment includes a flat roof, a large windscreen, a pair of opposing doors, side walls and a rear wall. A pair of side mirror supports extend from an upper and a lower front corner of a door window frame, respectively. Two steps are provided underneath each door.



Figure 1

Three-dimensional view

21: A2019/00998 22: 2019-07-23 23:
43: 2019-01-24

52: Class 12 24: Part A

71: MAN Truck & Bus SE

33: DE 31: 40 2019 100 093.3 32: 2019-01-24

54: CABINS FOR VEHICLES

57: The design relates to a cabin for a vehicle. The cabin comprises an operatively lower engine compartment and an operatively upper passenger compartment. A centrally located air intake is provided in a laterally extending front bumper. A number plate frame is located above the air intake and separates the air intake from a roughly trapezium-shaped radiator grille. A headlight cluster is provided at opposite ends of the bumper. The passenger compartment includes a flat roof, a large windscreen, a pair of opposing doors, side walls and a rear wall. A pair of side mirror supports extend from an upper and a lower front corner of a door window frame, respectively. Two steps are provided underneath each door.



Figure 1

Three-dimensional view

21: A2019/00999 22: 2019-07-23 23:
43: 2019-01-24
52: Class 12 24: Part A
71: MAN Truck & Bus SE
33: DE 31: 40 2019 100 093.3 32: 2019-01-24

54: CABINS FOR VEHICLES

57: The design relates to a cabin for a vehicle. The cabin comprises an operatively lower engine compartment and an operatively upper passenger compartment. A centrally located air intake is provided in a laterally extending front bumper. A number plate frame is located above the air intake and separates the air intake from a roughly trapezium-shaped radiator grille. A headlight cluster is provided at opposite ends of the bumper. The passenger compartment includes a flat roof, a large windscreen, pairs of front and rear doors, side walls sandwiched between the front and rear doors and a rear wall. A pair of side mirror supports extend from an upper and a lower front corner of a door window frame, respectively. Two steps are provided underneath each door.



Figure 1

Three-dimensional view

21: A2019/01000 22: 2019-07-23 23:
43: 2019-01-24
52: Class 12 24: Part A
71: MAN Truck & Bus SE
33: DE 31: 40 2019 100 093.3 32: 2019-01-24

54: CABINS FOR VEHICLES

57: The design relates to a cabin for a vehicle comprising an operatively lower engine compartment and an operatively upper passenger compartment. A centrally located air intake is provided in a laterally extending front bumper. A number plate frame is located above the air intake and separates the air intake from a roughly trapezium-shaped radiator grille. A headlight cluster is provided at opposite ends of the bumper. The passenger compartment includes a roof, a large windscreen, a pair of opposing doors, side walls and a rear wall. A pair of side mirror supports extend from an upper and a lower front corner of a door window frame, respectively. The cabin further includes a wind deflector attached to the rear of the roof. The wind deflector includes diverging side wings which abut a rear edge of the side walls. Three prominent swage lines extend rearwardly across the side walls and side wings.



Figure 1

Three-dimensional view

21: A2019/01001 22: 2019-07-23 23:
43: 2019-01-24
52: Class 12 24: Part A
71: MAN Truck & Bus SE
33: DE 31: 40 2019 100 093.3 32: 2019-01-24

54: CABINS FOR VEHICLES

57: The design relates to a cabin for a vehicle. The cabin comprises an operatively lower engine compartment and an operatively upper passenger compartment. A centrally located air intake is

provided in a laterally extending front bumper. A number plate frame is located above the air intake and separates the air intake from a roughly trapezium-shaped radiator grille. A headlight cluster is provided at opposite ends of the bumper. The passenger compartment includes a roof, a large windscreen, a pair of opposing doors, side walls and a rear wall. A pair of side mirror supports extend from an upper and a lower front corner of a door window frame, respectively. Two steps are provided underneath each door.



Figure 1

Three-dimensional view



Figure 1

Three-dimensional view

21: A2019/01003 22: 2019-07-23 23:
43: 2019-01-24
52: Class 12 24: Part A
71: MAN Truck & Bus SE
33: DE 31: 40 2019 100 093.3 32: 2019-01-24

54: CABINS FOR VEHICLES

57: The design relates to a cabin for a vehicle comprising an operatively lower engine compartment and an operatively upper passenger compartment. A centrally located air intake is provided in a laterally extending front bumper. A number plate frame is located above the air intake and separates the air intake from a roughly trapezium-shaped radiator grille. A headlight cluster is provided at opposite ends of the bumper. The passenger compartment includes a roof, a large windscreen, a pair of opposing doors, side walls and a rear wall. A pair of side mirror supports extends from an upper and a lower front corner of a door window frame, respectively. The cabin further includes a wind deflector attached to the rear of the roof. The wind deflector includes diverging side wings which abut a rear edge of the side walls. Three prominent swage lines extend rearwardly across the side walls and side wings.

21: A2019/01002 22: 2019-07-23 23:
43: 2019-01-24
52: Class 12 24: Part A
71: MAN Truck & Bus SE
33: DE 31: 40 2019 100 093.3 32: 2019-01-24

54: CABINS FOR VEHICLES

57: The design relates to a cabin for a vehicle comprising an operatively lower engine compartment and an operatively upper passenger compartment. A centrally located air intake is provided in a laterally extending front bumper. A number plate frame is located above the air intake and separates the air intake from a roughly trapezium-shaped radiator grille. A headlight cluster is provided at opposite ends of the bumper. The passenger compartment includes a roof, a large windscreen, a pair of opposing doors, side walls and a rear wall. A pair of side mirror supports extend from an upper and a lower front corner of a door window frame, respectively. The cabin further includes a wind deflector attached to the rear of the roof. Three prominent swage lines extend rearwardly across the side walls.



Figure 1

Three-dimensional view

21: A2019/01004 22: 2019-07-23 23:
43: 2019-01-24
52: Class 12 24: Part A
71: MAN Truck & Bus SE
33: DE 31: 40 2019 100 093.3 32: 2019-01-24

54: CABINS FOR VEHICLES

57: The design relates to a cabin for a vehicle. The cabin comprises an operatively lower engine compartment and an operatively upper passenger compartment. A centrally located air intake is provided in a laterally extending front bumper. A number plate frame is located above the air intake and separates the air intake from a roughly trapezium-shaped radiator grille. A headlight cluster is provided at opposite ends of the bumper. The passenger compartment includes a roof, a large windscreen, a pair of opposing doors, side walls and a rear wall. A pair of side mirror supports extend from an upper and a lower front corner of a door window frame, respectively. Three steps are provided underneath each door. A series of three swage lines extends rearwardly across the side walls.



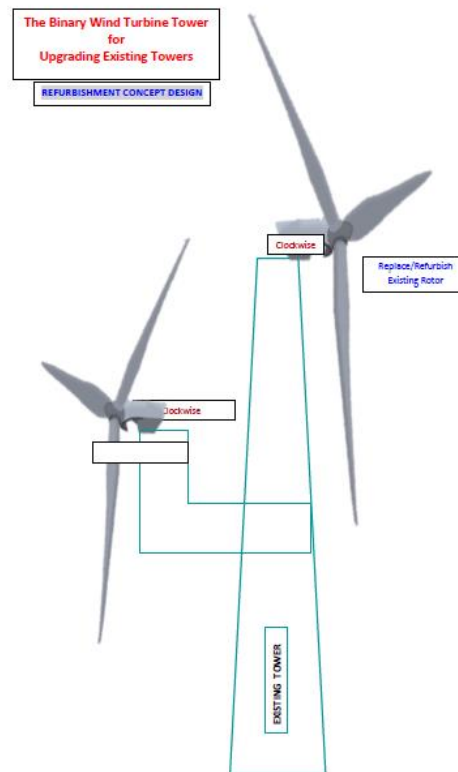
Figure 1

Three-dimensional view

21: A2020/00563 22: 2020-05-08 23:
43: 2021-10-11
52: Class 13 24: Part A
71: JJ Govender

54: BINARY TOWER DESIGN FOR UPGRADING EXISTING TOWERS

57: The original rotor rotates normal while the added 2nd rotor rotates anti-clockwise, thus increasing the energy levels twofold. This is a quick to market design created for the wind turbine industry. Less costs and decreased harm to the environment.



21: A2020/00564 22: 2020-05-08 23:

43: 2021-10-11

52: Class 25 24: Part A

71: JJ Govender

54: THE AQUA DIAMOND TOWERS

57: The Aqua Diamond Towers is made up of 3 skyscrapers with the tallest skyscraper measuring 1.4km high. The 3 skyscraper towers support the 2 center diamond shaped aquariums. The aquariums offer tranquility and a stress free environment to the Tower's residents. These towers have been designed using recycled steel or concrete making it a sustainable and green initiative building design. THE AQUARIUM Health Benefits..... induces a tranquil and calming environment thereby assisting.... in reducing stress levels In improving Blood Pressure and Heart Rate in improving the quality of sleep in decreasing anxiety and pain in curbing hyperactivity disorders in children in minimizing disruptive behaviour in Alzheimer patients and improving short-term memory loss Conserving Marine Life.... the Aquarium can be used for the regeneration of endangered marine/aquatic life FROM SUBSISTENCE TO SUSTAINABILITY For every 10 floors of occupancy, we recommend that the floor above the 10 floors to be used as a Greenhouse (Biomass Energy), fostering food security and improving livelihoods. The Towers are aerodynamic in shape, encouraging wind flow, this will minimize wind loads on the structure and cladding. Due to it's height the natural air around the building generates far more pressure differences which can be converted to natural ventilation within the building.... Should you prefer the floating Aquarium, the Long Spires can be used to accommodate Wind Turbines, this will amplify the wind speed thus producing far more energy for the building....the wind turbines will also almost eradicate the swaying of the Towers.... Recycled Steel is recommended for the Core structure. Concrete could be an alternative for the Core Structure, the concrete will capture the cold night air and this cold air can be used as cooling energy during the day The exterior is designed using a double skin façade, alternatively one could investigate using Physee's Power Window & Smart Window <https://www.physee.eu/products>; exterior solar blinds for extremely hot days should be considered.....Polyvinyl or Polycarbonate Sheeting is recommended for the Aquarium due to its massive size.....



21: A2020/00565 22: 2020-05-08 23:

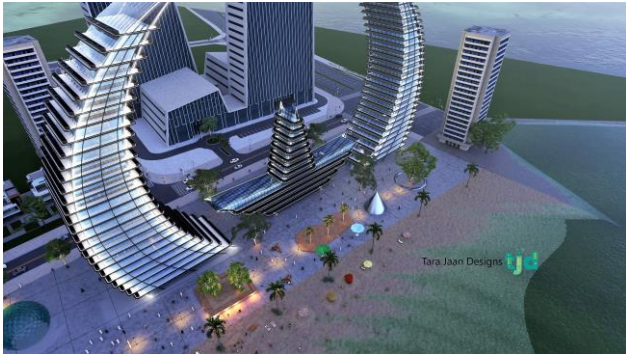
43: 2021-10-11

52: Class 25 24: Part A

71: JJ Govender

54: THE CROWN HOTEL DESIGNS AND VARIANT ASSEMBLIES

57: It is made up of 2 Crescent Moons and a 1/2 Star in the center of the 2 crescent moons. The Crescent Moons and Star are assembled in variant forms. These Hotels are designed for the distinguished with extravagance and opulence All accommodation, to be Suites "Penthouse" ? Our recommendation for every Suite..... ? an indoor splash pool or jacuzzi in the balcony or in the Suite itself ? Minimum 2 king size bedrooms with full ensuite ? a private lounge, a dining area and a private office and a private gym... ? The suites to be longitudinal in order to incorporate both balconies An area to receive their private guests A welcome basket for the family Children should have gaming facilities in their rooms Each Suite to have baby sitting facilities managed by the hotel Personal chauffeur for airport pick up & drop off plus for personal city/island sight seeing For the countries that are affected by the Sahara Desert Sandstorms or wet rainy climate, domed glass balconies are recommended It's about offering privacy; security; opulence and extravagance to the discerning guests. The Star is for the Hotel's Services & Facilities, including a destination Spa, restaurants, haute couture shopping; emergency clinic, etc..... (these are recommendations, not cast in stone)



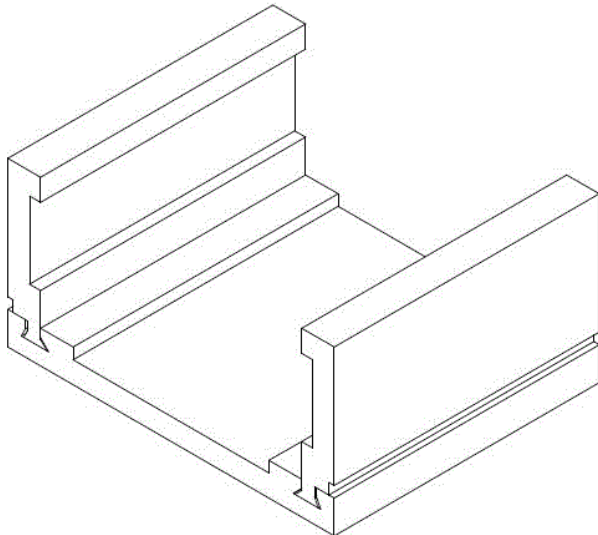
21: A2020/00689 22: 2020-05-29 23:
43: 2019-12-01

52: Class 25 24: Part A

71: THE CORNICE MAKER CC

54: SETS OF CEILING BULKHEAD COMPONENTS FOR PROVIDING CEILING BULKHEAD ASSEMBLIES

57: The design is for ceiling bulkhead components, of indefinite length, of a set of ceiling bulkhead components, for providing a ceiling bulkhead assembly, substantially as shown in the representations.



21: A2020/00701 22: 2020-05-29 23:
43: 2019-12-01

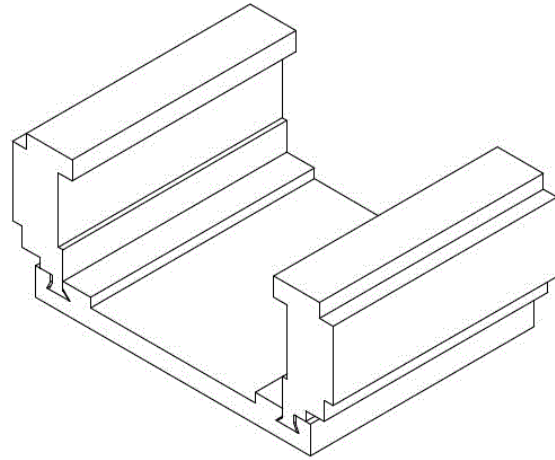
52: Class 25 24: Part A

71: THE CORNICE MAKER CC

54: SETS OF CEILING BULKHEAD COMPONENTS FOR PROVIDING CEILING BULKHEAD ASSEMBLIES

57: The design is for ceiling bulkhead components, of indefinite length, of a set of ceiling bulkhead components, for providing a ceiling bulkhead

assembly, substantially as shown in the representations.



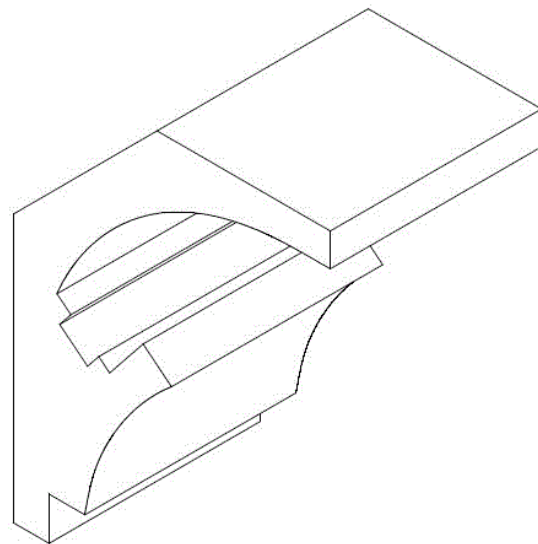
21: A2020/00702 22: 2020-05-29 23:
43: 2019-12-01

52: Class 25 24: Part A

71: THE CORNICE MAKER CC

54: CORNICES

57: The design is for a cornice of indefinite length, substantially as shown in the representations.



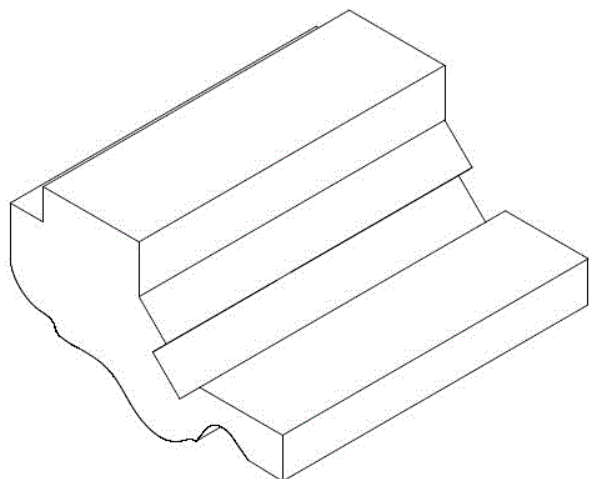
21: A2020/00704 22: 2020-05-29 23:
43: 2019-12-01

52: Class 25 24: Part A

71: THE CORNICE MAKER CC

54: TRIMS FOR CEILINGS

57: The design is for a trim, of indefinite length, for a ceiling, substantially as shown in the representations.



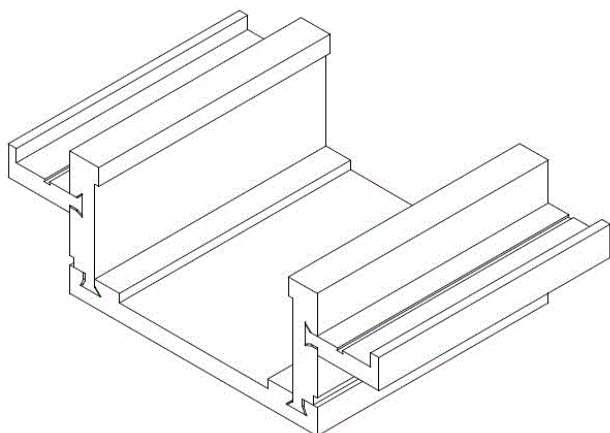
21: A2020/00708 22: 2020-05-29 23:
43: 2019-12-01

52: Class 25 24: Part A

71: THE CORNICE MAKER CC

54: SETS OF CEILING BULKHEAD COMPONENTS FOR PROVIDING CEILING BULKHEAD ASSEMBLIES

57: The design is for ceiling bulkhead components, of indefinite length, of a set of ceiling bulkhead components, for providing a ceiling bulkhead assembly, substantially as shown in the representations.



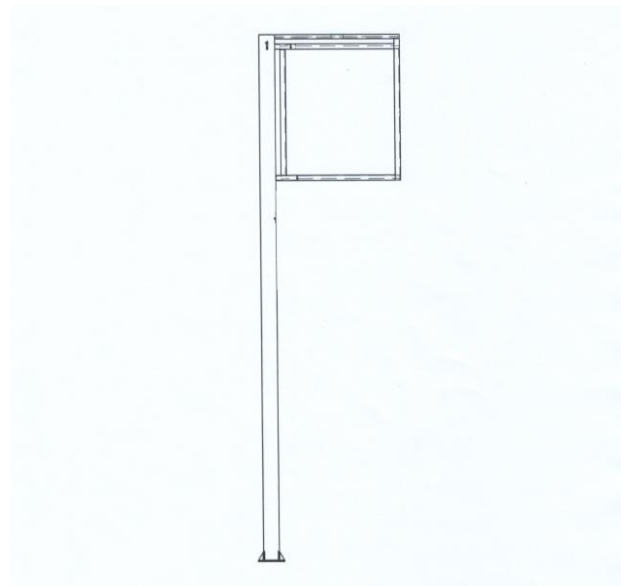
21: A2020/00941 22: 2020-07-08 23:
43: 2021-10-04

52: Class 20 24: Part A

71: SOLAR STREET NAMES (PTY) LTD

54: DISPLAY ARRANGEMENT

57: The novelty of the design resides in the shape or configuration of a display arrangement substantially as shown in the accompanying representation.



21: A2020/01034 22: 2020-07-29 23:
43: 2021-06-18

52: Class 14 24: Part A

71: Beyond Platinum (Pty) Ltd

54: A REMOTE CONTROL UNIT

57: The design relates to the shape, configuration and/or ornamentation of a remote control unit for operation of a satellite television decoder or set-top box.



TOP VIEW

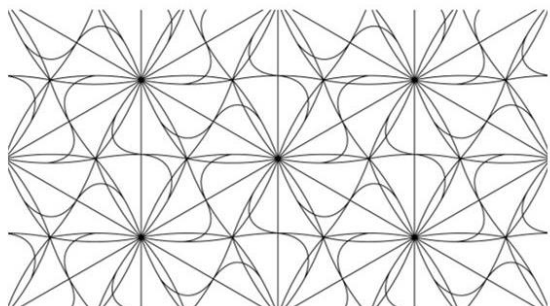
21: A2020/01204 22: 2020-09-04 23:
43: 2021-09-21

52: Class 05 24: Part A

71: ANGELOS LAMBROU, KEVIN DAVID KING

54: FABRIC

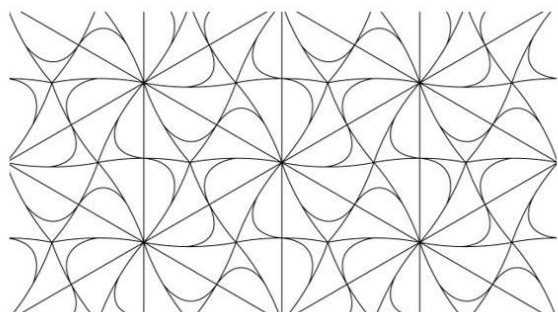
57: The features of the design for which protection is claimed is those of the pattern or ornamentation of a fabric substantially as illustrated in the accompanying drawing.



21: A2020/01207 22: 2020-09-04 23:
43: 2021-09-21
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: A2020/01374 22: 2020-10-21 23:
43: 2021-09-21
52: Class 24 24: Part A
71: SANOFI-AVENTIS DEUTSCHLAND GMBH
33: EU 31: 007878392-0001 32: 2020-05-11

54: INJECTION DEVICE

57: The design is to be applied to an injection device. The features for which protection is claimed are those of shape and/or configuration and/or pattern and/or ornamentation (but excluding the writing thereon), substantially as shown in the representations.

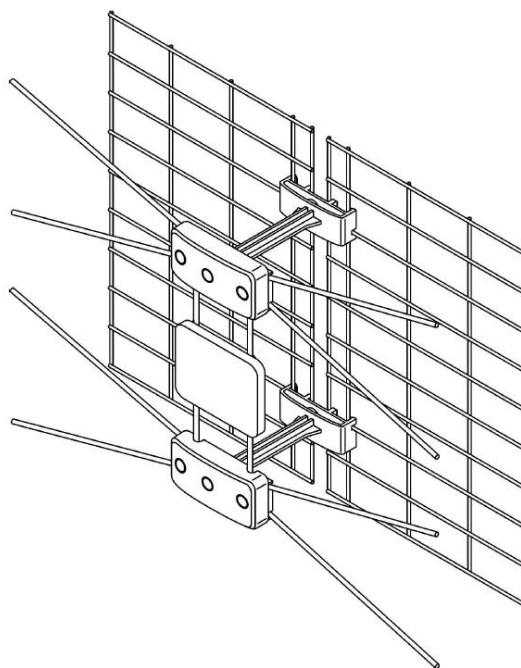


PERSPECTIVE VIEW

21: A2020/01400 22: 2020-10-27 23:
43: 2021-06-09
52: Class 14 24: Part A
71: BEYOND PLATINUM (PTY) LTD
33: EU 31: 007 839 022 - 0001 32: 2020-04-28

54: A GRID ANTENNA

57: The design is applied to an antenna of the kind that may be used to receive an ultra-high frequency (UHF) satellite television transmission. A grid of the antenna is provided as two components that are releasably secured to two supports on assembly of the antenna. This is done using two screws and clamping plates. The screws can be slightly loosened to hingely retain the two grid components to the supports under the clamping plates. The antenna will beneficially be packaged with one of the two grid components folded against the other to reduce the packaging size. Two pairs of dipoles are also removably connected to the supports.



FRONT PERSPECTIVE VIEW

21: A2020/01451 22: 2020-11-09 23:

43: 2021-06-02

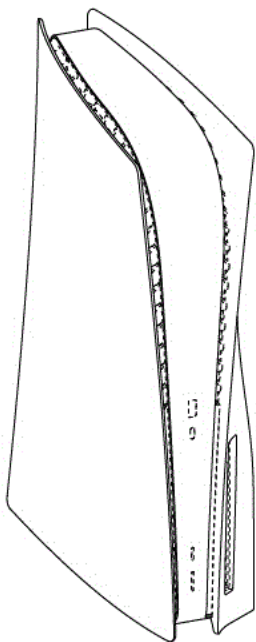
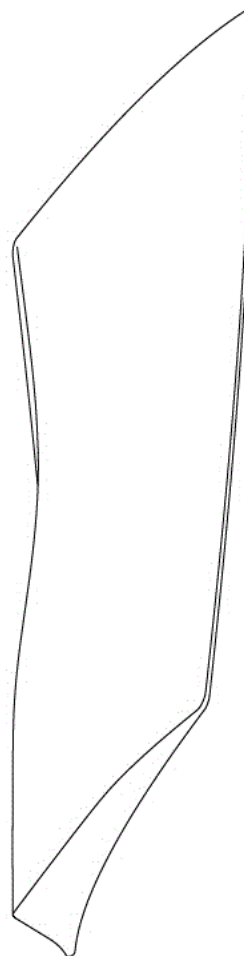
52: 14 24: Part A

71: SONY INTERACTIVE ENTERTAINMENT INC

33: JP 31: 2020-010084 32: 2020-05-22

54: **ELECTRONIC DEVICE**

57: The design is applied to an electronic device and is shown in perspective front, top, right side view in the drawing showing the overall appearance thereof.



21: A2020/01452 22: 2020-11-10 23:

43: 2021-06-08

52: 14 24: Part A

71: SONY INTERACTIVE ENTERTAINMENT INC

33: JP 31: 2020-010087 32: 2020-05-22

54: **COVER FOR ELECTRONIC DEVICE**

57: The design is applied to a cover for an electronic device and is shown in perspective front, bottom, right side view in the drawing showing the overall appearance thereof.

21: A2020/01453 22: 2020-11-10 23:

43: 2021-06-08

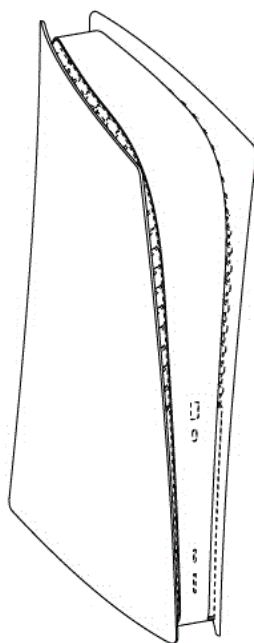
52: 14 24: Part A

71: SONY INTERACTIVE ENTERTAINMENT INC

33: JP 31: 2020-010085 32: 2020-05-22

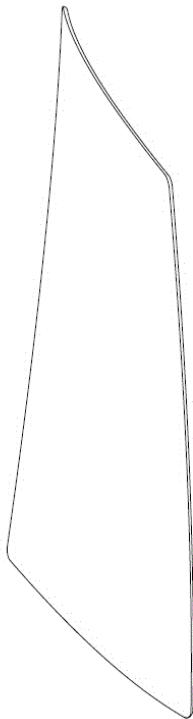
54: **ELECTRONIC DEVICE**

57: The design is applied to an electronic device and is shown in perspective front, top, right side view in the drawing showing the overall appearance thereof.

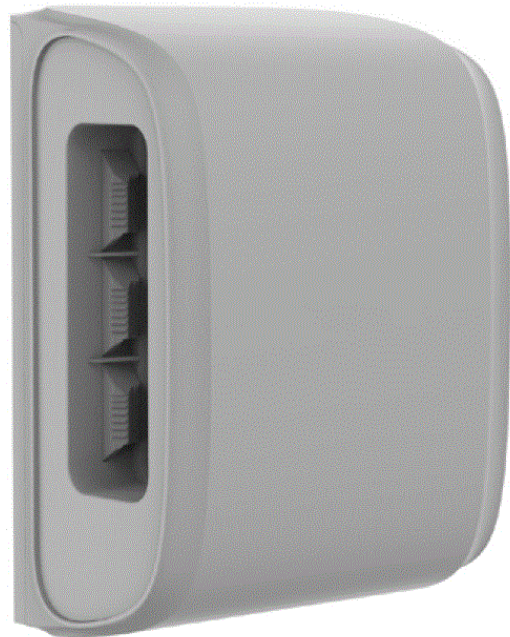


21: A2020/01462 22: 2020-11-11 23:
43: 2021-06-08
52: 14 24: Part A
71: SONY INTERACTIVE ENTERTAINMENT INC
33: JP 31: 2020-010088 32: 2020-05-22
54: **COVER FOR ELECTRONIC DEVICE**
57: The design is applied to a cover for an electronic device and is shown in perspective front, bottom, and right side view in the drawing showing the overall appearance thereof.

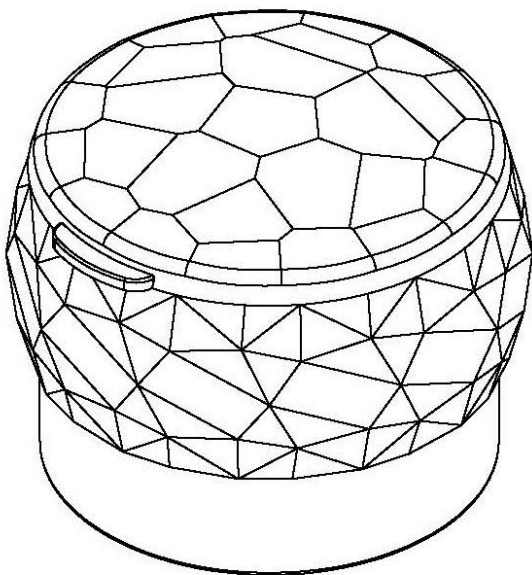
21: A2020/01463 22: 2020-11-11 23:
43: 2021-06-08
52: 14 24: Part A
71: SONY INTERACTIVE ENTERTAINMENT INC
33: JP 31: 2020-010086 32: 2020-05-22
54: **COVER FOR ELECTRONIC DEVICE**
57: The design is applied to a cover for an electronic device and is shown in perspective front, top, and right side view in the drawing showing the overall appearance thereof.



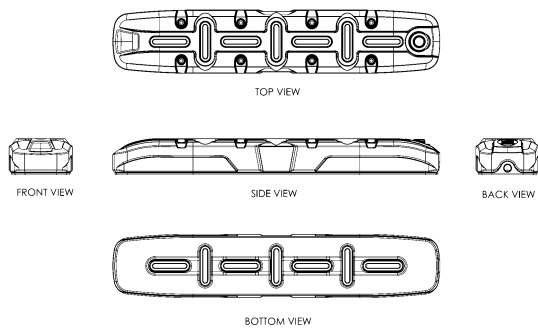
21: A2020/01553 22: 2020-11-30 23:
43: 2021-06-24
52: 10 24: Part A
71: AJAX SYSTEMS CYPRUS HOLDINGS LTD
33: WO 31: WIPO98772 32: 2020-10-26
54: MOVEMENT SENSOR
57: Protection is claimed for the aesthetic features and/or the configuration of a Movement sensor device that notifies movement as shown in the accompanying representations.



21: A2020/01488 22: 2020-11-16 23:
43: 2021-06-02
52: Class 07 24: Part A
71: Rotarycut (Pty) Ltd
54: SALT GRINDER WITH UNIQUELY TEXTURED LID AND BODY
57: The article comprises the thread base, body and lid of a salt grinder which is uniquely textured to resemble a pattern of salt crystals.



21: A2020/01590 22: 2020-12-07 23:
43: 2021-07-25
52: Class 23 24: Part A
71: Stewart Thompson
33: AU 31: 202013451 32: 2020-06-22
54: VEHICLE ROOF TOP WATER TANK
57: The distinctiveness is claimed in the features of shape and/or configuration of a vehicle roof top water tank as shown in the representations. The tank is designed to be roof mounted on a vehicle. It has baffles incorporated into the design and the baffles will be used as the mounting points for the tank. The baffles run both in the longitudinal and latitudinal planes. This is to allow for mounting on different roof mountings. The appearance of the tank is novel and unique.



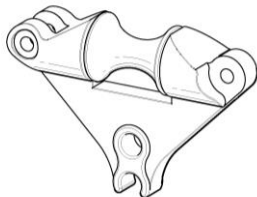
21: A2020/01595 22: 2020-12-09 23:
43: 2021-07-25

52: Class 12 24: Part A

71: BESTER, Francois Retief

**54: APPARATUS FOR ATTACHING
RESTRAINING MEANS TO A LINE**

57: The features of the design for which protection is claimed reside in the shape and/or configuration of the apparatus for attaching restraining means to a line substantially as shown in the accompanying representations irrespective of the appearance of the features in dashed lines. The apparatus for attaching restraining means to a line is used for attaching a safety net to a powerline.



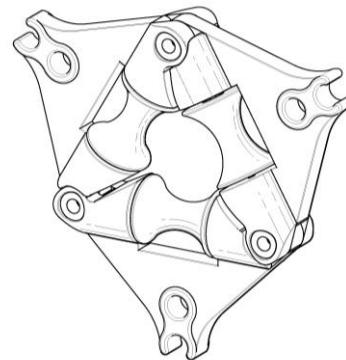
21: A2020/01597 22: 2020-12-09 23:
43: 2021-07-25

52: Class 12 24: Part A

71: BESTER, Francois Retief

**54: APPARATUS FOR ATTACHING
RESTRAINING MEANS TO A LINE**

57: The features of the design for which protection is claimed reside in the shape and/or configuration of the apparatus for attaching restraining means to a line substantially as shown in the accompanying representations irrespective of the appearance of the features in dashed lines. The apparatus for attaching restraining means to a line is used for attaching a safety net to a powerline.



21: A2020/01609 22: 2020-12-10 23:

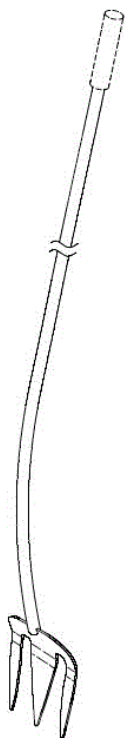
43: 2020-12-10

52: Class 8 24: Part A

71: HANOVERIAN PROJECTS PROPRIETARY
LIMITED

54: Gardening Tools

57: The design relates to a gardening tool primarily, but not exclusively, for use in extracting weeds. The features of the design for which protection is claimed include the shape and/or configuration and/or pattern and/or ornamentation of a gardening tool as shown in the accompanying drawings, the aspects shown in the drawings by the dashed lines not forming an essential part of the design and are therefore disclaimed.



Three-dimensional view from front

21: A2020/01610 22: 2020-12-10 23:
43: 2020-12-10
52: Class 8 24: Part A
71: HANOVERIAN PROJECTS PROPRIETARY
LIMITED

54: Gardening Tools

57: The design relates to a gardening tool primarily, but not exclusively, for use in extracting weeds. The features of the design for which protection is claimed include the shape and/or configuration and/or pattern and/or ornamentation of a gardening tool as shown in the accompanying drawings, the aspects shown in the drawings by the dashed lines not forming an essential part of the design and are therefore disclaimed.

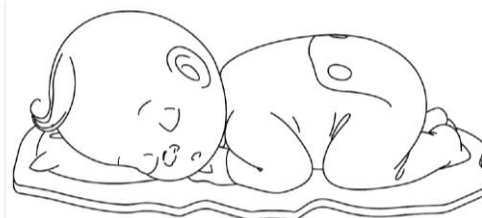


Three-dimensional view from front

21: A2020/01613 22: 2020-12-11 23:
43: 2021-08-04
52: Class 28 24: Part A
71: SWARTZ, Davonne David, LOFTUS, Shanel Kim

54: BABY-SHAPED SOAP BAR

57: The design is constituted by a bar of soap in the shape of a baby. The novelty of the design resides in the shape and ornamentation of the BABY-SHAPED SOAP BAR substantially as illustrated.



21: A2020/01615 22: 2020-12-14 23:
43: 2020-06-15
52: Class 10 24: Part A
71: Daniel Wellington AB
33: EM(SE) 31: 008005334-0001 32: 2020-06-15

54: WATCHES

57: The design is for a watch. The case of the watch is circular and appears thin in side view. Crystal hour markers are spaced along a periphery of the dial and

each is cut to provide a plurality of reflective facets. An hour and a minute hand are attached to a central post at an inner end thereof by means of a thinner stem and tapers towards an oppositely located outer free end. The letters "DW", where the D is inverted, and the wording "Daniel Wellington" is provided on the dial operatively above the central post. The crown is provided on a side of the watch and has a knurled surface. The bracelet comprises three adjacent bands of rectangular segments, wherein the pattern of the segments of the outer two bands correspond and wherein the segments of the inner band are staggered relative to those of the outer bands.



Figure 1
Three-dimensional view

21: A2020/01616 22: 2020-12-14 23:
43: 2020-06-15
52: Class 10 24: Part A
71: Daniel Wellington AB
33: EM(SE) 31: 008005334-0002 32: 2020-06-15
54: WATCHES

57: The design is for a watch. The case of the watch is circular and appears thin in side view. Crystal hour markers are spaced along a periphery of the dial and each is cut to provide a plurality of reflective facets. An hour and a minute hand are attached to a central post at an inner end thereof by means of a thinner stem and tapers towards an oppositely located outer free end. The crown is provided on a side of the watch and has a knurled surface. The bracelet comprises three adjacent bands of rectangular segments, wherein the pattern of the segments of the outer two bands correspond and wherein the segments of the inner band are staggered relative to those of the outer bands.



Figure 1
Three-dimensional view

21: A2020/01617 22: 2020-12-14 23:
43: 2020-06-15
52: Class 10 24: Part A
71: Daniel Wellington AB
33: EM(SE) 31: 008005334-0003 32: 2020-06-15
54: WATCHES

57: The design is for a watch and, in particular, for a dial for a watch. The dial is circular. Crystal hour markers are spaced along a periphery of the dial and each is cut to provide a plurality of reflective facets. An hour and a minute hand are attached to a central post at an inner end thereof by means of a thinner stem and tapers towards an oppositely located outer free end. The letters "DW", where the D is inverted, and the wording "Daniel Wellington" is provided on the dial operatively above the central pinion. The crown is provided on a side of the watch and has a knurled surface.



Figure 1
Three-dimensional view

21: A2020/01618 22: 2020-12-14 23:
43: 2020-06-15

52: Class 10 24: Part A
 71: Daniel Wellington AB
 33: EM(SE) 31: 008005334-0004 32: 2020-06-15

54: WATCHES

57: The design is for a watch and, in particular, for a dial for a watch. The dial is circular. Crystal hour markers are spaced along a periphery of the dial and each is cut to provide a plurality of reflective facets. An hour and a minute hand are attached to a central post at an inner end thereof by means of a thinner stem and tapers towards an oppositely located outer free end. The crown is provided on a side of the watch and has a knurled surface.

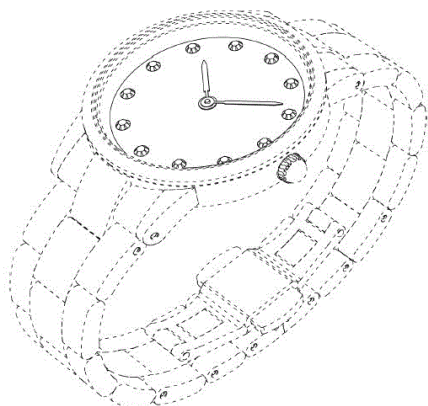


Figure 1

Three-dimensional view

21: A2020/01619 22: 2020-12-14 23:
 43: 2020-06-15
 52: Class 10 24: Part A
 71: Daniel Wellington AB
 33: EM(SE) 31: 008005334-0005 32: 2020-06-15

54: WATCHES

57: The design is for a watch. The case of the watch is circular and appears thin in side view. The case is silver with a pair of lugs protruding from an operative upper and lower end thereof. The bezel is gold. Crystal hour markers are spaced along a periphery of the dial and each is cut to provide a plurality of reflective facets. A gold hour and minute hand are provided. The hour and minute hand are each attached to a central post at an inner end thereof by means of a thinner stem and tapers towards an oppositely located outer free end. The letters "DW", where the D is inverted, and the wording "Daniel Wellington" is provided on the dial operatively above the central post. A gold crown is provided on a side of the watch and has a knurled surface.



Figure 1

Three-dimensional view

21: A2020/01624 22: 2020-12-17 23:
 43: 2020-06-18
 52: Class 12 24: Part A
 71: The Goodyear Tire & Rubber Company
 33: US 31: 29/738,515 32: 2020-06-18

54: TIRES

57: The design is for a tire comprising five ribs of tread elements; a center row, a pair of intermediate rows, and a pair of shoulder rows. Each row is spaced from an adjacent row by a circumferentially continuous wide groove. The tread elements of the pair of intermediate rows have a circumferential array of upwardly inclined, irregularly-sided square block elements with adjacent block elements separated by an inclined groove and each block element having three inclining offset sipes extending thereacross. The tread elements of the center row form a circumferential array of upwardly inclined, irregularly-sided square block elements with adjacent block elements separated by an inclining groove and each center row block element having two inclining offset sipes extending thereacross. The tread elements of the pair of shoulder rows have a circumferential array of groove fingers extending inward from a tread edge with adjacent groove fingers separated by three sipes.

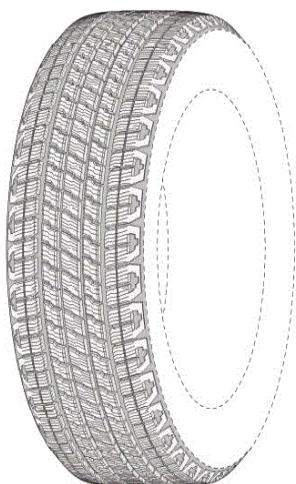


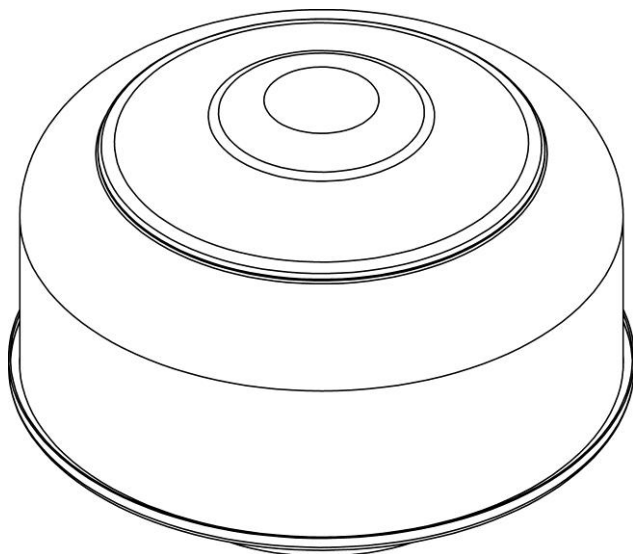
Figure 1

Three-dimensional view

21: A2020/01656 22: 2020-12-21 23:
43: 2021-08-17
52: Class 07 24: Part A
71: INDEPENDENT BENCHMARKING SOLUTIONS (PTY) LTD

54: CONVECTION OVEN

57: The design is applied to a convection oven. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of a convection oven, substantially as illustrated in the accompanying representation. Contour lines are provided to indicate the contours but do not form part of the design and are disclaimed.

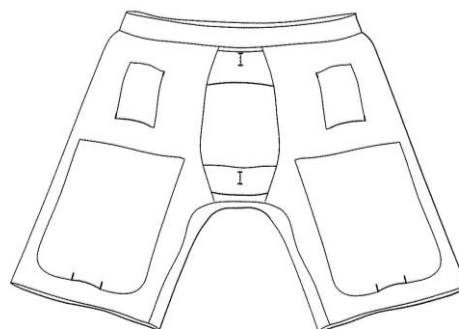


21: A2020/01669 22: 2020-12-22 23:

43: 2021-09-21
52: Class 2 24: Part A
71: MAHLWELE, Sue-Ann

54: MEDICAL GARMENT

57: The design relates to a medical garment. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

FRONT VIEW
OF GARMENT

21: A2021/00002 22: 2021-01-04 23:
43: 2021-08-19
52: Class Class 9. 24: Part A
71: DART INDUSTRIES INC.

33: US 31: 29/743,347 32: 2020-07-21

54: Bottle with a Rhinoceros Shape

57: The design relates to a bottle with a rhinoceros shape. The features of the design are those of shape and/or configuration and/or ornamentation.



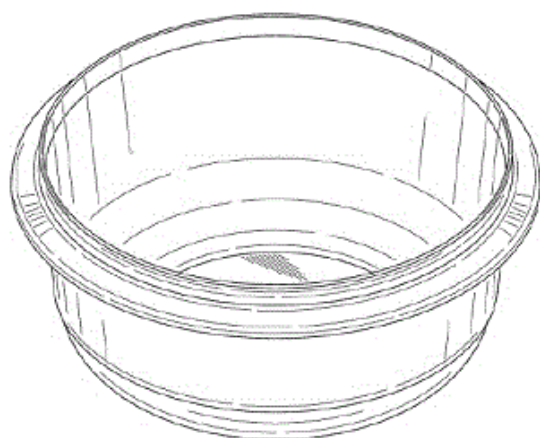
TOP PERSPECTIVE VIEW

21: A2021/00003 22: 2021-01-04 23:
43: 2021-08-19

52: Class Class 7. 24: Part A
 71: DART INDUSTRIES INC.
 33: US 31: 29/743,193 32: 2020-07-20

54: Bowl with a Flanged Rim

57: The design relates to a bowl with a flanged rim.
 The features of the design are those of shape and/or
 configuration and/or ornamentation.



TOP PERSPECTIVE VIEW

21: A2021/00004 22: 2021-01-04 23:
 43: 2021-08-23
 52: Class Class 9. 24: Part A
 71: DART INDUSTRIES INC.
 33: US 31: 29/743,348 32: 2020-07-21

54: Bottle with a Lion Shape

57: The design relates to a bottle with a lion shape.
 The features of the design are those of shape and/or
 configuration and/or ornamentation.

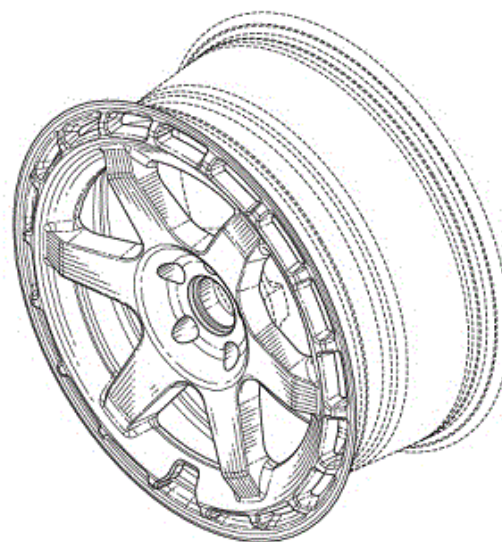


TOP PERSPECTIVE VIEW

21: A2021/00005 22: 2021-01-04 23:
 43: 2021-08-19
 52: Class Class 12. 24: Part A
 71: WHEEL PROS, LLC
 33: US 31: 29/750,842 32: 2020-09-16

54: Wheel

57: The design relates to a wheel. The features of
 the design are those of shape and/or configuration
 and/or pattern and/or ornamentation.



PERSPECTIVE VIEW

21: A2021/00006 22: 2021-01-04 23:
 43: 2020-07-02
 52: Class 24 24: Part A
 71: Inovio Pharmaceuticals, Inc.

33: US 31: 29/740,379 32: 2020-07-02

54: MEDICAL EQUIPMENT

57: The design is for a medical equipment comprising a cylindrical elongate body extending upwardly from an oval base. A front wall curves inwardly and side walls taper gently inwardly towards an upwardly projecting, rearwardly inclined head portion. A top wall of the head portion is gently curved. A bottom wall of the head portion is concavely curved. A rear wall of the head portion forms a rearwardly protruding ridge.

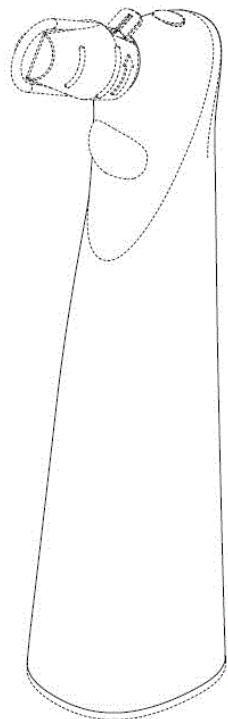


Figure 1
Three dimensional view in a first configuration

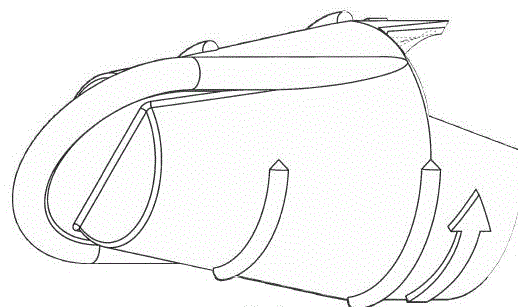


Figure 1
Three-dimensional view

21: A2021/00008 22: 2021-01-05 23:

43: 2021-08-19

52: Class 10 24: Part A

71: AJAX SYSTEMS CYPRUS HOLDINGS LTD

33: WO 31: WIPO99577 32: 2020-11-18

54: A KEYPAD FOR AN ALARM

57: Protection is claimed for the aesthetic features and/or the configuration of a wireless touch keypad used for arming/disarming security system. It is mounted in the room near the entrance door to provide quick access to the keypad. The device operates security modes when a digital code is entered on the keypad. Indication notifies of current security status, problems with detectors or breakdown of communication with the hub.



21: A2021/00007 22: 2021-01-04 23:

43: 2020-07-02

52: Class 24 24: Part A

71: Inovio Pharmaceuticals, Inc.

33: US 31: 29/740,379 32: 2020-07-02

54: CAPS FOR MEDICAL EQUIPMENT

57: The design is for a cap for part of a medical equipment and comprises a truncated cone body defining a recess for receiving the medical equipment. A pair of trapezoidal members extend from an edge of the body. Each trapezoidal member includes a raised arrow. The body includes two pairs of raised bands. The cap includes an oval handle, with each end of the handle attached to an edge of the body, a middle portion of the handle projecting above a frustum of the body.

21: A2021/00010 22: 2021-01-08 23:

43: 2021-08-23

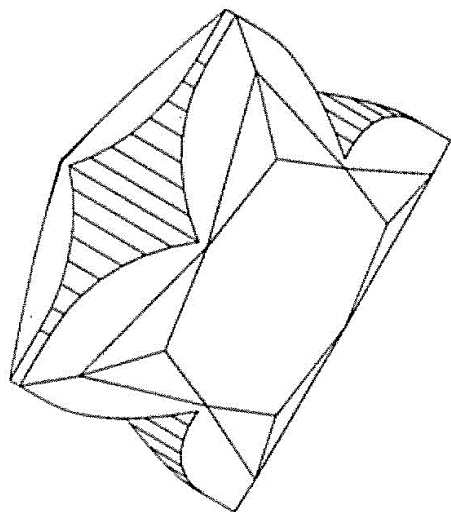
52: Class 11 24: Part A

71: LOUIS VUITTON MALLETTIER

33: FR 31: 2020-3539 32: 2020-07-31

54: PRECIOUS STONE

57: The design is to be applied to a precious stone. The features for which protection is claimed are those of shape and/or configuration and/or pattern and/or ornamentation, substantially as shown in the representations.

**TOP PERSPECTIVE VIEW**

21: A2021/00011 22: 2021-01-08 23:

43: 2021-08-23

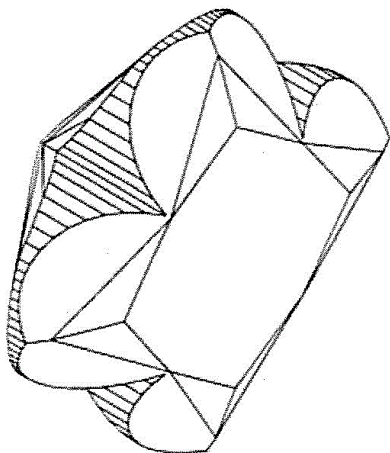
52: Class 11 24: Part A

71: LOUIS VUITTON MALLETIER

33: FR 31: 2020-3540 32: 2020-07-31

54: PRECIOUS STONE

57: The design is to be applied to a precious stone. The features for which protection is claimed are those of shape and/or configuration and/or pattern and/or ornamentation, substantially as shown in the representations.

**TOP PERSPECTIVE VIEW**

21: A2021/00014 22: 2021-01-08 23:

43: 2021-08-19

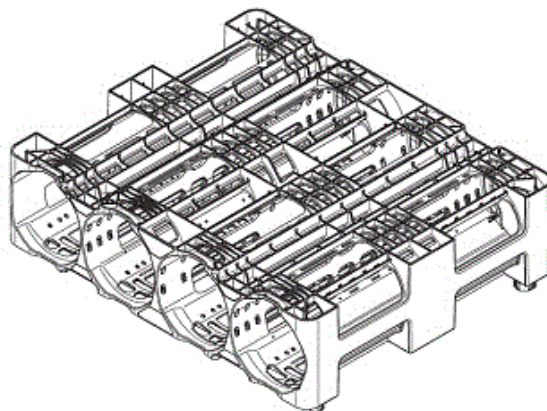
52: Class Class 6. 24: Part A

71: POLYMER SOLUTIONS INTERNATIONAL INC.

33: US 31: 29/741,203 32: 2020-07-10

54: Container Rack

57: The design relates to a container rack. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

**FRONT PERSPECTIVE VIEW**

21: A2021/00015 22: 2021-01-08 23:

43: 2021-08-19

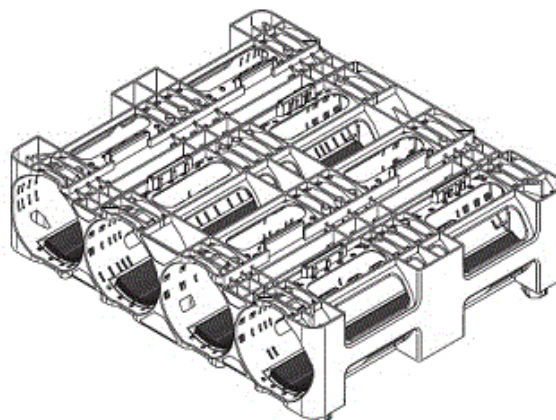
52: Class Class 6. 24: Part A

71: POLYMER SOLUTIONS INTERNATIONAL INC.

33: US 31: 29/741,203 32: 2020-07-10

54: Container Rack

57: The design relates to a container rack. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

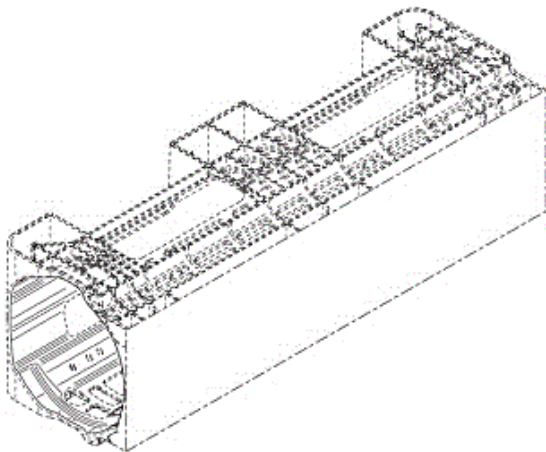
**FRONT PERSPECTIVE VIEW**

21: A2021/00016 22: 2021-01-08 23:

43: 2021-08-19
 52: Class Class 6. 24: Part A
 71: POLYMER SOLUTIONS INTERNATIONAL INC.
 33: US 31: 29/741,203 32: 2020-07-10

54: Portion of a Container Rack

57: The design relates to a portion of a container rack. The features of the design are those of shape and/or configuration and/or ornamentation.

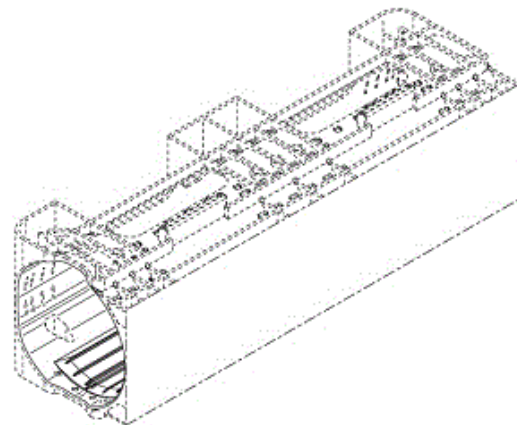


FRONT PERSPECTIVE VIEW

21: A2021/00018 22: 2021-01-08 23:
 43: 2021-08-19
 52: Class Class 6. 24: Part A
 71: POLYMER SOLUTIONS INTERNATIONAL INC.
 33: US 31: 29/741,203 32: 2020-07-10

54: Portion of a Container Rack

57: The design relates to a portion of a container rack. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

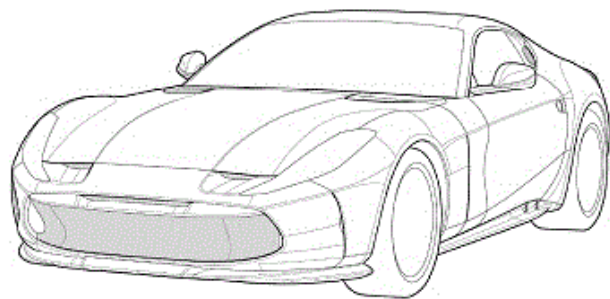


FRONT PERSPECTIVE VIEW

21: A2021/00019 22: 2021-01-13 23:
 43: 2021-08-19
 52: Class Class 21. 24: Part A
 71: FERRARI S.P.A.
 33: EM 31: 008042139-0001 32: 2020-07-15

54: Toy Car

57: The design relates to a toy car. The features of the design are those of shape and/or configuration and/or ornamentation.



FRONT PERSPECTIVE VIEW

21: A2021/00029 22: 2021-01-20 23:
 43: 2020-07-21
 52: Class 12 24: Part A
 71: Bayerische Motoren Werke Aktiengesellschaft
 33: DE 31: 402020100678.5 32: 2020-07-21

54: MOTOR VEHICLES

57: The design is for a vehicle, particularly a five-door hatchback, having a long wheelbase, short

front and rear overhangs, and conspicuously large wheels. The bonnet has a U-shaped depression surrounding the round indentation for the logo. All the bonnet lines converge on the kidney grille. The front has a large, interlinked, rimmed kidney-shaped radiator grille, which is blanked off by a distinctive pattern of rhombs, being flanked by very slim headlights extending into the side panels. The lower section of the kidney grille is surrounded by a horizontal, very wide bracket-shaped opening formed by a horizontal cut-out below the kidney grille. The side has nearly rectangular lines surrounding the wheel arches. It has a prominent horizontal trim line in the lower portion extending across the two doors. The rear has very slim L-shaped tail lights. Horizontal lines are provided in the middle and cut-outs create three-dimensional surfaces in the lower portion.



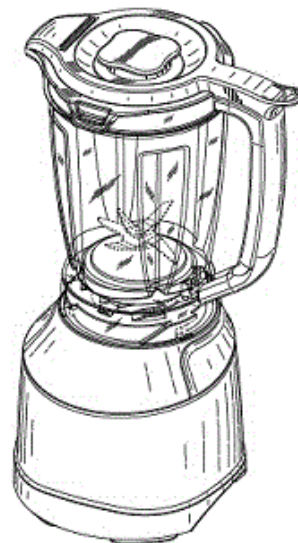
Figure 1

Three-dimensional view

21: A2021/00032 22: 2021-01-21 23:
43: 2021-08-19
52: Class Class 31. 24: Part A
71: CAPBRAN HOLDINGS, LLC
33: US 31: 29/743,925 32: 2020-07-24

54: Blender

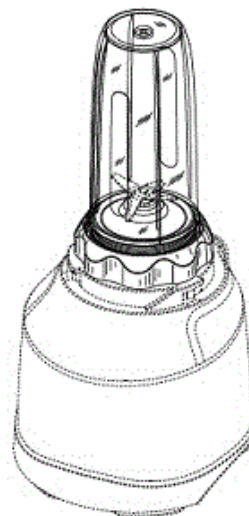
57: The design relates to a blender. The features of the design are those of shape and/or configuration and/or ornamentation.

**TOP FRONT PERSPECTIVE VIEW**

21: A2021/00033 22: 2021-01-21 23:
43: 2021-08-19
52: Class Class 31. 24: Part A
71: CAPBRAN HOLDINGS, LLC
33: US 31: 29/743,931 32: 2020-07-24

54: Blender Container

57: The design relates to a blender container. The features of the design are those of shape and/or configuration and/or ornamentation.

**TOP FRONT PERSPECTIVE VIEW IN USE**

21: A2021/00036 22: 2021-01-21 23:
43: 2021-08-19
52: Class Class 31. 24: Part A
71: CAPBRAN HOLDINGS, LLC

33: US 31: 29/743,931 32: 2020-07-24

54: Blender Container

57: The design relates to a blender container. The features of the design are those of shape and/or configuration and/or ornamentation.



TOP PERSPECTIVE VIEW

21: A2021/00039 22: 2021-01-22 23:

43: 2020-07-23

52: Class 24 24: Part A

71: Lupin Inc.

33: US 31: 29/743,725 32: 2020-07-23

54: INHALERS

57: The design is for an inhaler. The inhaler has a rounded rectangular body. A first generally triangular component is defined by a diagonal line extending across the body which includes a semi-circular protrusion. An oval recess is provided on one face of the first component. A second generally triangular component is located opposite to the first component and includes saddle shaped dispensing portion including an oval recess located at a top of the inhaler and a slatted formation on one face of the second component. A generally triangular lid with a tab at one corner is mounted over the second component and can pivot about the semi-circular protrusion between an open and closed configuration.

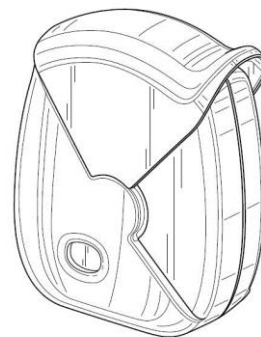


Figure 1

Three-dimensional view with a lid in a closed configuration

21: A2021/00040 22: 2021-01-22 23:

43: 2020-07-23

52: Class 24 24: Part A

71: Lupin Inc.

33: US 31: 29/743,725 32: 2020-07-23

54: INHALERS

57: The design is for an inhaler. The inhaler has a rounded rectangular body. A first generally triangular component is defined by a diagonal line extending across the body which includes a semi-circular protrusion. A second generally triangular component is located opposite to the first component and includes saddle shaped dispensing portion located at a top of the inhaler. A generally triangular lid with a tab at one corner is mounted over the second component and can pivot about the semi-circular protrusion between an open and closed configuration.

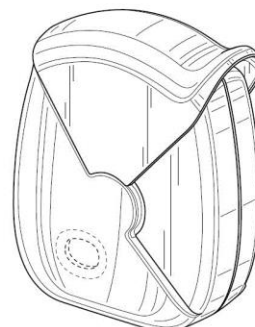


Figure 1

Three-dimensional view with a lid in a closed configuration

21: A2021/00041 22: 2021-01-22 23:

43: 2021-08-19

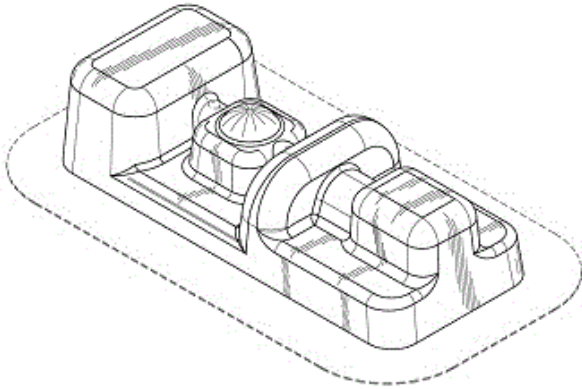
52: Class Class 9. 24: Part A

71: REGENERON PHARMACEUTICALS, INC.

33: US 31: 29/744,476 32: 2020-07-29

54: Packaging

57: The design relates to packaging. The features of the design are those of shape and/or configuration and/or ornamentation.

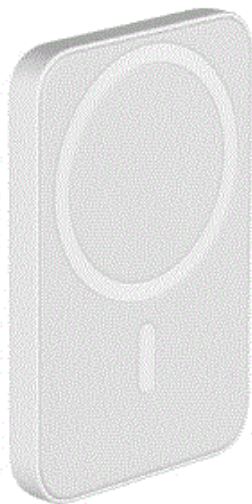


BOTTOM, REAR AND RIGHT PERSPECTIVE VIEW

21: A2021/00042 22: 2021-01-22 23:
43: 2021-08-02
52: Class Class 13. 24: Part A
71: APPLE INC.
33: US 31: 29/743,901 32: 2020-07-24

54: Charger

57: The design relates to a charger. The features of the design are those of shape and/or configuration and/or ornamentation.



FRONT PERSPECTIVE VIEW

21: A2021/00047 22: 2021-01-26 23:
43: 2020-07-27
52: Class 12 24: Part A

71: Bolt Technology OÜ

33: EM(E) 31: 008053227-0001 32: 2020-07-27

54: SCOOTERS

57: The design is for a scooter. The scooter has a platform for a user to stand on. The platform is supported by two wheels located at opposite ends of the platform. Each wheel is partly shielded by a mudguard. The platform has a generally U-shaped collapsible support located below it, displaceable to suspend one of the wheels above a ground surface. A steering shaft projects rearwardly upwardly from the platform. The steering shaft has two handlebars that project from it in opposite directions adjacent a free end thereof. One of the handlebars has a lever to operate a wheel brake connected to it.

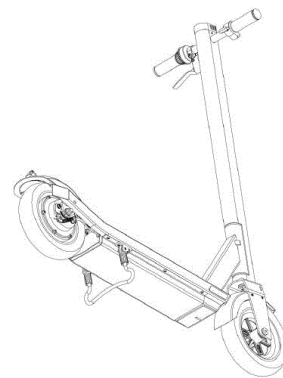


Figure 1

Three-dimensional view

21: A2021/00048 22: 2021-01-26 23:
43: 2020-07-27
52: Class 12 24: Part A
71: Bolt Technology OÜ
33: EM(E) 31: 008053227-0002 32: 2020-07-27
54: SCOOTERS

57: The design is for a scooter. The scooter has a platform for a user to stand on. The platform is supported by two wheels located at opposite ends of the platform. Each wheel is partly shielded by a mudguard. The platform has a generally U-shaped collapsible support located below it, displaceable to suspend one of the wheels above a ground surface. A steering shaft projects rearwardly upwardly from the platform. The steering shaft has two handlebars that project from it in opposite directions adjacent a free end thereof. One of the handlebars has a lever to operate a wheel brake connected to it.

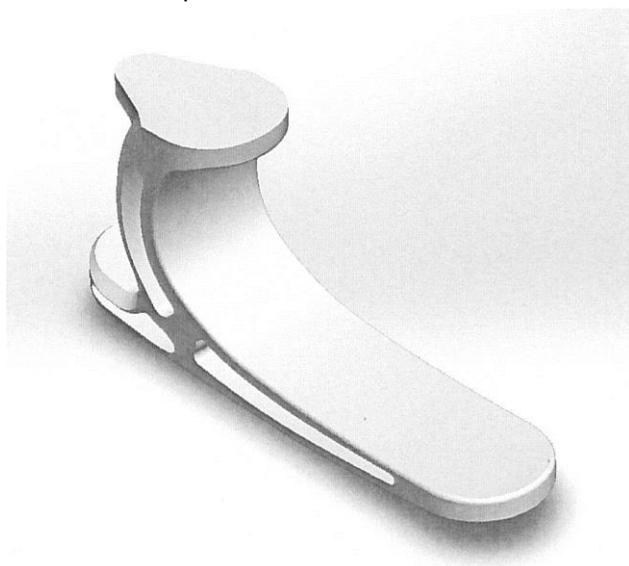


Figure 1
Three-dimensional view

21: A2021/00050 22: 2021-01-27 23:
43: 2021-08-23
52: Class 24 24: Part A
71: FUPRO INNOVATION PVT LTD
33: IN 31: 331477-001 32: 2020-07-29

54: PROSTHETIC FOOT

57: The design is to be applied to a prosthetic foot. The features for which protection is claimed are those of shape and/or configuration, substantially as shown in the representations.



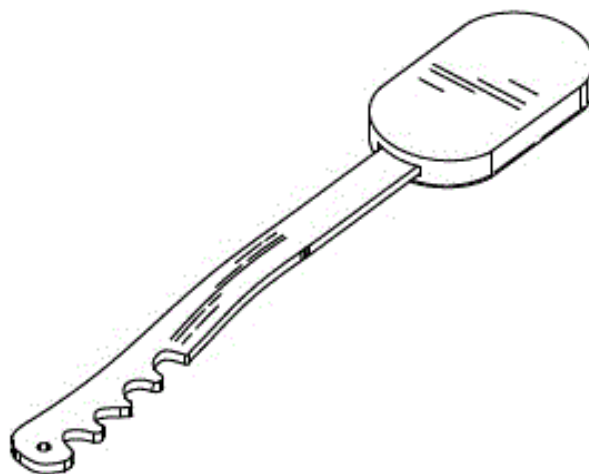
FRONT PERSPECTIVE VIEW

21: A2021/00061 22: 2021-01-29 23:
43: 2021-01-29
52: Class 28 24: Part A
71: RAUTENBACH, Ankea

54: Applicators

57: The design relates to an applicator which includes an elongate handle and a head mounted on one end of the handle. The head is generally oval in

shape and an end portion of the handle is inserted into and secured in position in a longitudinally extending recess in the head. The head is formed of a resiliently deformable material.



21: A2021/00063 22: 2021-01-29 23:
43: 2021-08-19
52: Class Class 6. 24: Part A
71: VAN STADEN, PETRUS JOHANNES

54: Hanger

57: The design relates to hanger. The features of the design are those of shape and/or configuration and/or ornamentation.



PERSPECTIVE VIEW

21: A2021/00067 22: 2021-02-02 23:
43: 2021-09-13
52: Class 09 24: Part A
71: Polyoak Packaging (Pty) Ltd

54: CLOSURE

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: A2021/00078 22: 2021-02-03 23:

43: 2021-09-21

52: Class 23 24: Part A

71: HANS GROHE SE

33: EU 31: 008148662-0001 32: 2020-08-26

54: SANITARY FAUCET

57: The features of the design for which protection is claimed are those of the shape and/or configuration of the sanitary faucet substantially as illustrated in the accompanying drawing.



21: A2021/00079 22: 2021-02-03 23:

43: 2021-09-21

52: Class 23 24: Part A

71: HANS GROHE SE

33: EU 31: 008148662-0013 32: 2020-08-26

54: SANITARY FAUCET

57: The features of the design for which protection is claimed are those of the shape and/or configuration of the sanitary faucet substantially as illustrated in the accompanying drawing.



21: A2021/00080 22: 2021-02-03 23:

43: 2021-09-21

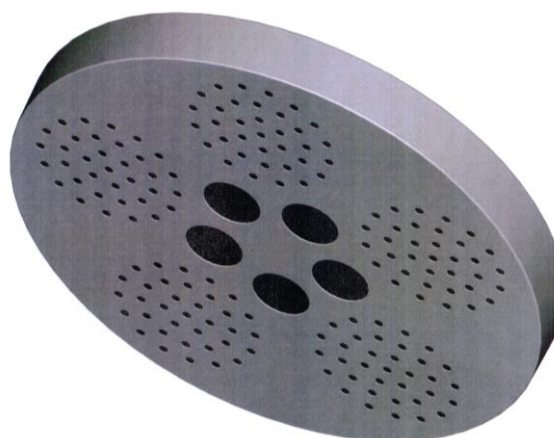
52: Class 23 24: Part A

71: HANS GROHE SE

33: EU 31: 008148662-0021 32: 2020-08-26

54: SANITARY SHOWER

57: The features of the design for which protection is claimed are those of the shape and/or configuration of the sanitary shower substantially as illustrated in the accompanying drawing.



21: A2021/00081 22: 2021-02-03 23:

43: 2021-09-21

52: Class 23 24: Part A

71: HANSGROHE SE

33: EU 31: 008148662-0019 32: 2020-08-26

54: HAND SHOWER

57: The features of the design for which protection is claimed are those of the shape and/or configuration of the hand shower substantially as illustrated in the accompanying drawing.



21: A2021/00098 22: 2021-02-05 23:

43: 2021-09-13

52: Class 9 24: Part A

71: SHH Brands LLC

54: SOCK PACKAGING

57: The design relates to a sock packaging. The features of the design are those of pattern and/or shape and/or configuration and/or ornamentation.



21: A2021/00161 22: 2021-02-19 23:

43: 2021-09-13

52: Class 09 24: Part A

71: Dr. Ing. W. Frohn GmbH & Co. KG

33: EU 31: 008197537-0001 32: 2020-10-09

54: CANISTER

57: The features of the design for which protection is claimed include the shape and/or configuration of an article substantially as shown in the accompanying representation(s).



21: A2021/00903 22: 2021-07-27 23:

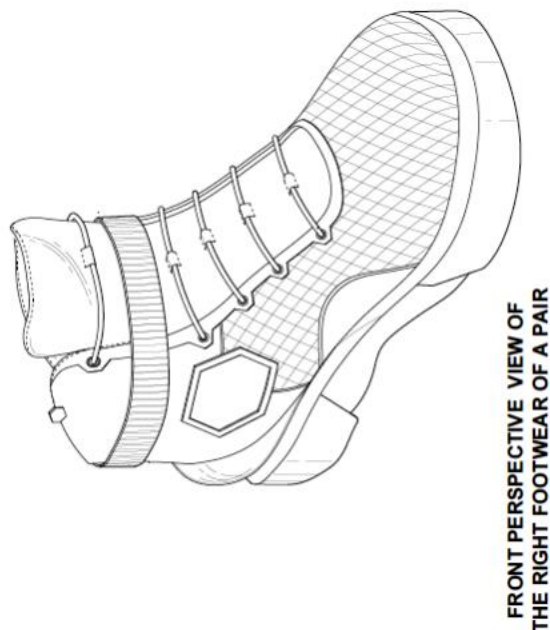
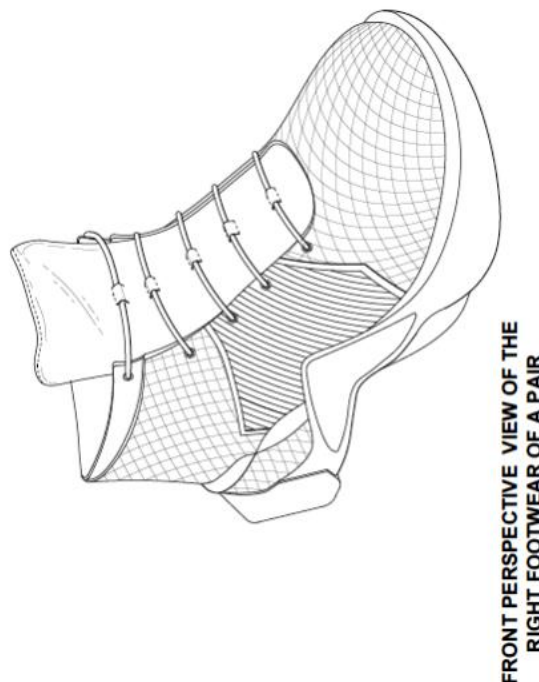
43: 2021-09-14

52: Class 02 24: Part A

71: FOCER HOLDINGS (PTY) LTD

54: FOOTWEAR

57: The features of the design for which protection is claimed include a pattern and/or a shape and/or a configuration and/or an ornamentation of a footwear, substantially as shown in the accompanying representations irrespective of pattern and/or shape and/or configuration and/or ornamentation of the parts shown in broken lines.



21: A2021/00904 22: 2021-07-27 23:

43: 2021-09-14

52: Class 02 24: Part A

71: FOCER HOLDINGS (PTY) LTD

54: FOOTWEAR

57: The features of the design for which protection is claimed include a pattern and/or a shape and/or a configuration and/or an ornamentation of a footwear, substantially as shown in the accompanying representations irrespective of pattern and/or shape and/or configuration and/or ornamentation of the parts shown in broken lines.

21: A2021/00905 22: 2021-07-27 23:

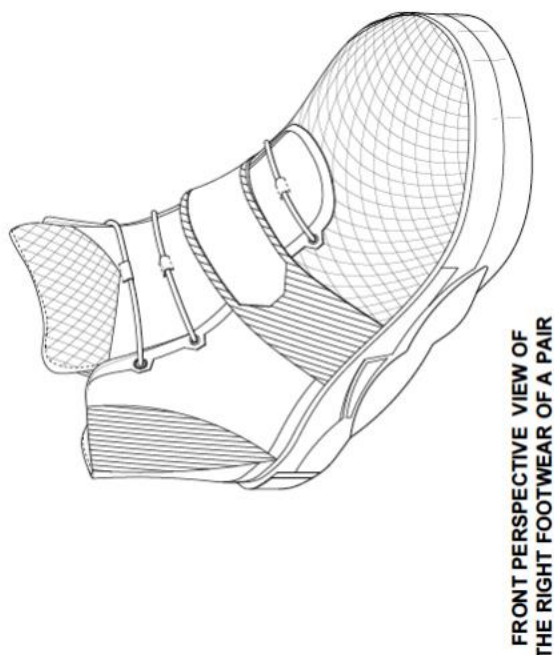
43: 2021-09-14

52: Class 02 24: Part A

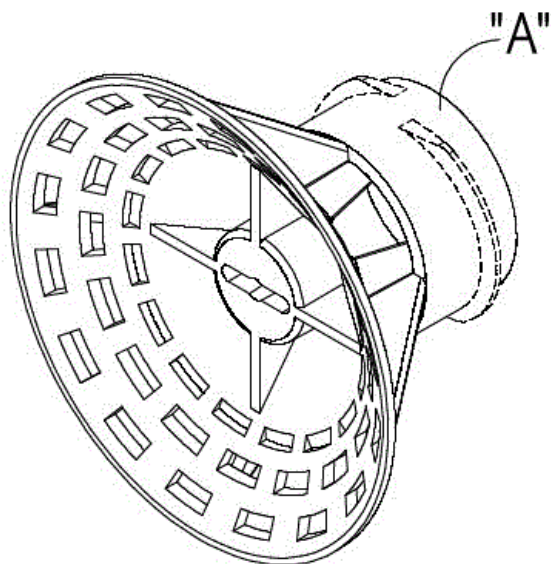
71: FOCER HOLDINGS (PTY) LTD

54: FOOTWEAR

57: The features of the design for which protection is claimed include a pattern and/or a shape and/or a configuration and/or an ornamentation of a footwear, substantially as shown in the accompanying representations irrespective of pattern and/or shape and/or configuration and/or ornamentation of the parts shown in broken lines.



21: F2019/00962 22: 2019-07-17 23:
43: 2019-07-17
52: Class 23 24: Part F
71: CONTROL CHEMICALS (PTY) LTD
54: FLOW MODIFYING COMPONENTS
57: The design is for a flow modifying component
that has a generally frusto-conical body.

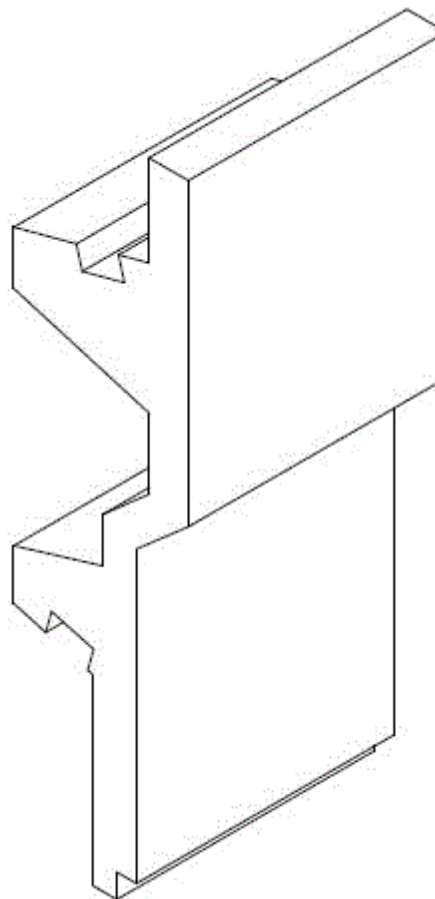


21: F2020/00700 22: 2020-05-29 23:
43: 2019-12-01
52: Class 25 24: Part F

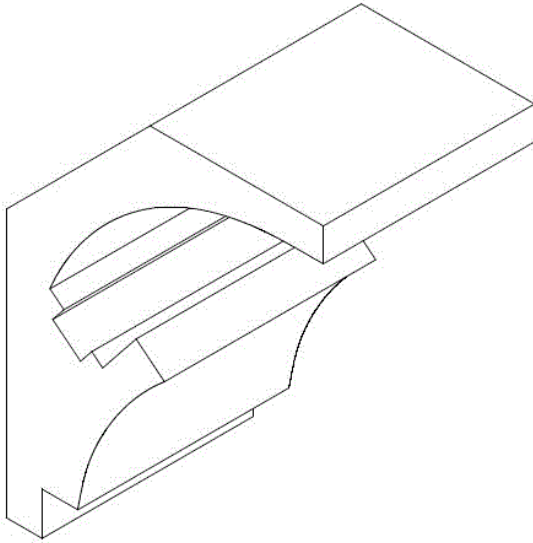
71: THE CORNICE MAKER CC

54: CORNICES

57: The design is for a cornice of indefinite length,
substantially as shown in the representations.



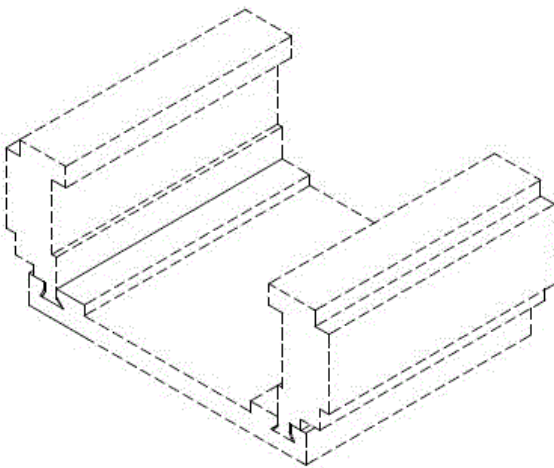
21: F2020/00703 22: 2020-05-29 23:
43: 2019-12-01
52: Class 25 24: Part F
71: THE CORNICE MAKER CC
54: CORNICES
57: The design is for a cornice of indefinite length,
substantially as shown in the representations.



21: F2020/00706 22: 2020-05-29 23:
43: 2019-12-01
52: Class 25 24: Part F
71: THE CORNICE MAKER CC

54: SETS OF CEILING BULKHEAD COMPONENTS FOR PROVIDING CEILING BULKHEAD ASSEMBLIES

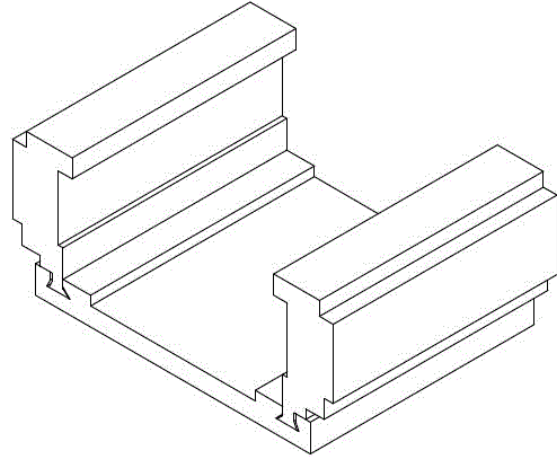
57: The design is for ceiling bulkhead components, of indefinite length, of a set of ceiling bulkhead components, for providing a ceiling bulkhead assembly, substantially as shown in the representations.



21: F2020/00707 22: 2020-05-29 23:
43: 2019-12-01
52: Class 25 24: Part F
71: THE CORNICE MAKER CC

54: SETS OF CEILING BULKHEAD COMPONENTS FOR PROVIDING CEILING BULKHEAD ASSEMBLIES

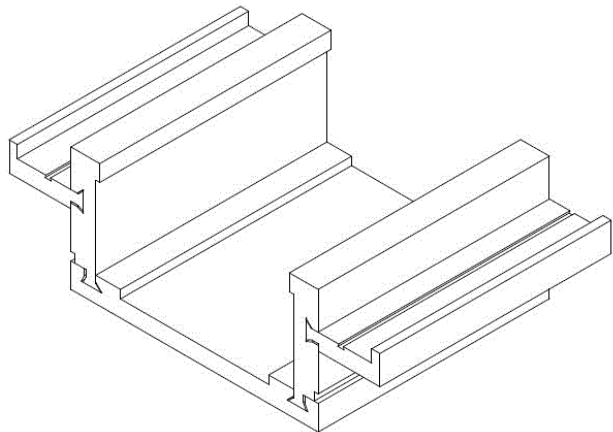
57: The design is for ceiling bulkhead components, of indefinite length, of a set of ceiling bulkhead components, for providing a ceiling bulkhead assembly, substantially as shown in the representations.



21: F2020/00709 22: 2020-05-29 23:
43: 2019-12-01
52: Class 25 24: Part F
71: THE CORNICE MAKER CC

54: SETS OF CEILING BULKHEAD COMPONENTS FOR PROVIDING CEILING BULKHEAD ASSEMBLIES

57: The design is for ceiling bulkhead components, of indefinite length, of a set of ceiling bulkhead components, for providing a ceiling bulkhead assembly, substantially as shown in the representations.



21: F2020/00890 22: 2020-06-24 23:
43: 2021-08-11
52: Class 21 24: Part F

71: SOUTH AFRICAN RUGBY LEGENDS
ASSOCIATION NPC

54: MULTI-PURPOSE TRAILERS

57: The features of the design for which protection is claimed reside in the shape and/or configuration of a multi-purpose trailer substantially as illustrated in the accompanying representations, wherein essential features of the design reside in the shape and/or configuration of a rear region of the trailer, which allows the trailer to function as a scrummaging machine, and wherein the other components and elements of the trailer as illustrated in the representations are non-essential features of the design.

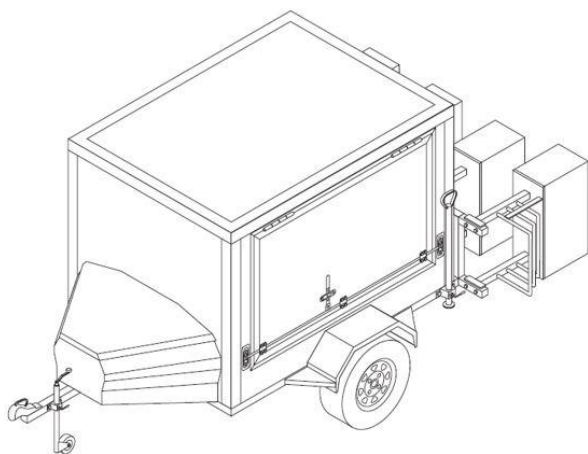
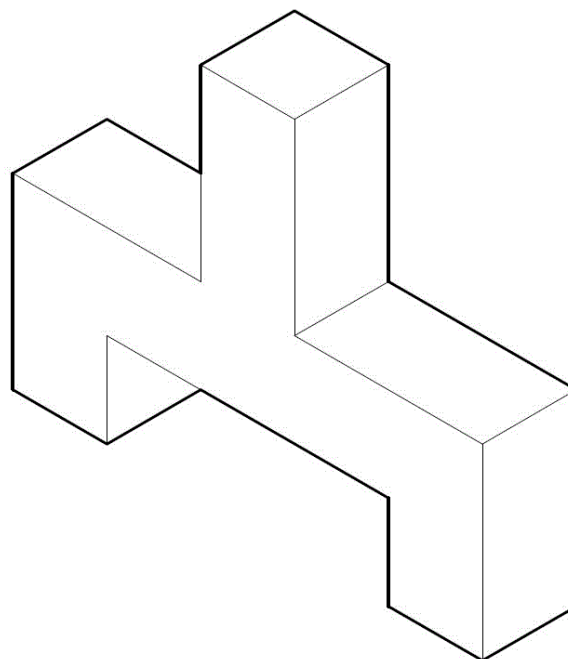


Figure 1
Perspective view



21: F2020/01123 22: 2020-08-18 23:

43: 2021-06-21

52: 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: F2020/01093 22: 2020-08-12 23:

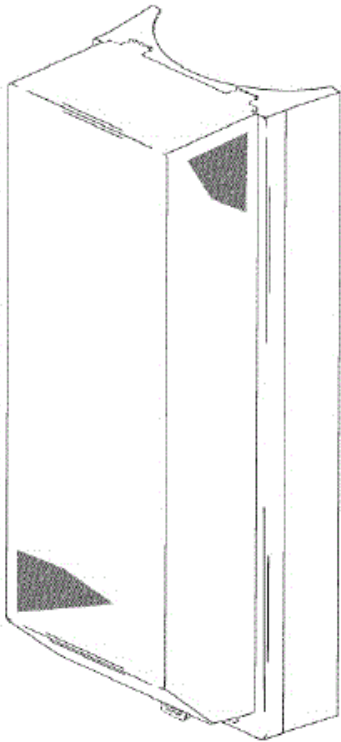
43: 2020-08-12

52: Class 21 24: Part F

71: CROCKETT, John Malcolm

54: BLOCKS

57: The design is for a three-dimensional block which can be used for amusement. When seen in front view, the block has a body which is symmetrical about a transversely extending midline. The body comprises a roughly C-shaped portion which has pair of spaced apart square legs and a lateral, perpendicular bisector which extends away from the C-shaped portion in an opposing direction. Using a plurality of these blocks, a host of different patterns and three-dimensional, tower-like structures or assemblies can be created. An outer leg length of each leg is equal to a length of the perpendicular bisector. The perpendicular bisector and the respective legs have an equal, square cross-section.



52: Class 25 24: Part F

71: LAYHER (PTY) LTD.

54: A SET OF SWING MECHANISMS FOR A SCAFFOLD SWING GATE

57: The design is in respect of a set of swing mechanisms for a scaffold swing gate. An upper wedge head swing mechanism has a generally rectangular outline when viewed from the side and is divided into two symmetrical halves, each half, defining a through hole for operationally accepting a safety wedge; and flanking a hollow passage into which a portion of a rosette can operationally extend. In plan view, the upper wedge head swing mechanism is generally triangular-shaped with a truncated apex extending towards a scaffold upright locating the rosette. A mid-portion swing mechanism is generally L-shaped when viewed side-on and is bent to define a locking pin and an elongate gate connecting member, the latter being angled between 1° and 10° relative to a vertical plane extending along a longitudinal axis of the locking pin.

21: F2020/01206 22: 2020-09-04 23:

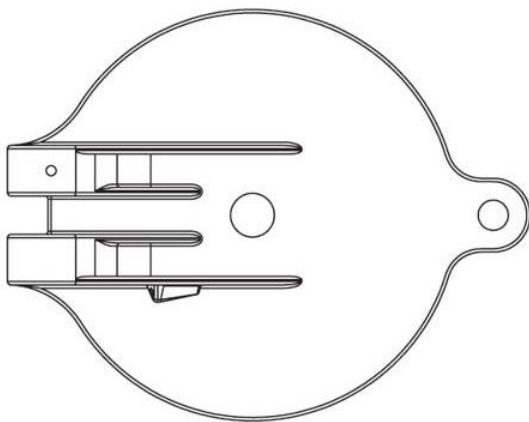
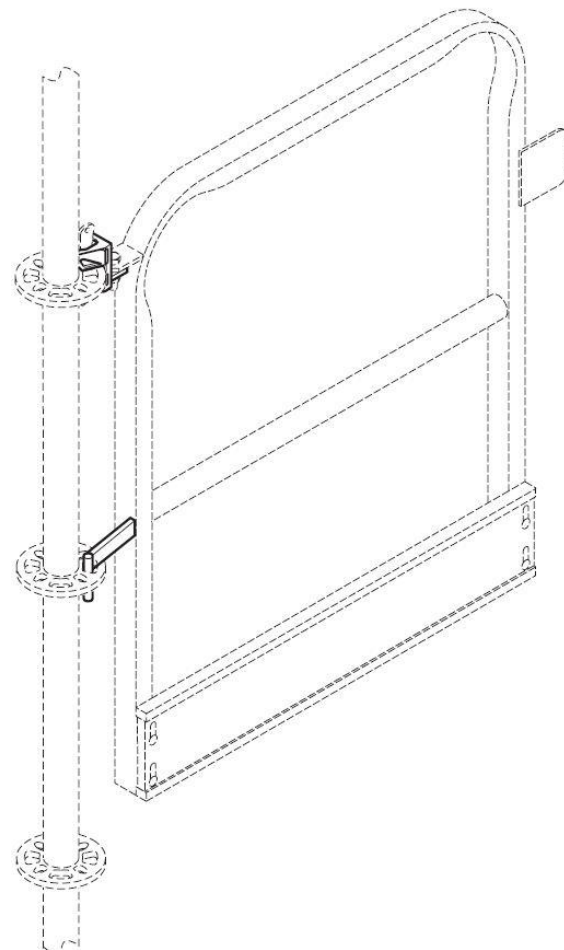
43: 2021-09-21

52: Class 12 24: Part F

71: SAFE-T-PACK (PTY) LTD

54: CHEEK PLATE FOR SNATCH BLOCK

57: The features of the design for which protection is claimed are those of the shape or configuration of a cheek plate for a snatch block substantially as illustrated in the accompanying drawing.



21: F2020/01334 22: 2020-10-06 23:

43: 2021-05-19

21: F2020/01335 22: 2020-10-06 23:

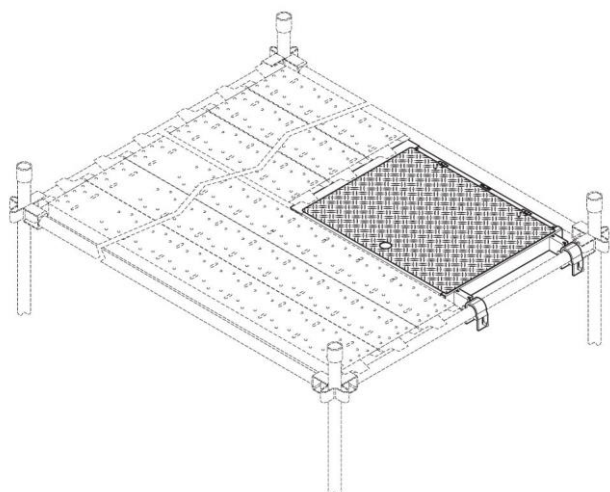
43: 2021-05-19

52: Class 25 24: Part F

71: LAYHER (PTY) LTD.

54: SCAFFOLD HATCH

57: The design is in respect of an openable deck, frame for receiving the deck, stopper, and hinges forming a set of articles for a scaffold hatch providing access to a scaffold platform. The openable deck has a generally rectangular outline when viewed in plan and is affixed to the frame along a first lateral edge thereof by means of two linearly spaced apart hinges, each of which is disposed on an opposing side of a centrally located stopper. The openable deck defines an opening through which a finger of a person can extend, which opening leads to a finger-unlockable latch disposed on a rear side of the deck. The stopper is yieldable and slightly beveled so as to assist in self-closing of the deck after opening thereof. An edge extending transverse to the lateral edge, but coterminous therewith, comprises two longitudinally spaced apart hook formations for connecting to scaffold posts.



PERSPECTIVE
VIEW IN USE

21: F2020/01385 22: 2020-10-22 23:

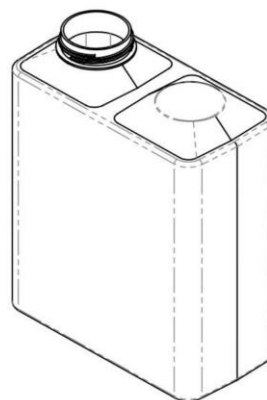
43: 2021-08-04

52: Class 09 24: Part F

71: DUBE, Alexander Memory

54: MODULAR CONTAINER

57: The novelty of this design resides in the shape and configuration of a MODULAR CONTAINER substantially as shown in the drawings.



21: F2020/01401 22: 2020-10-27 23:

43: 2021-06-09

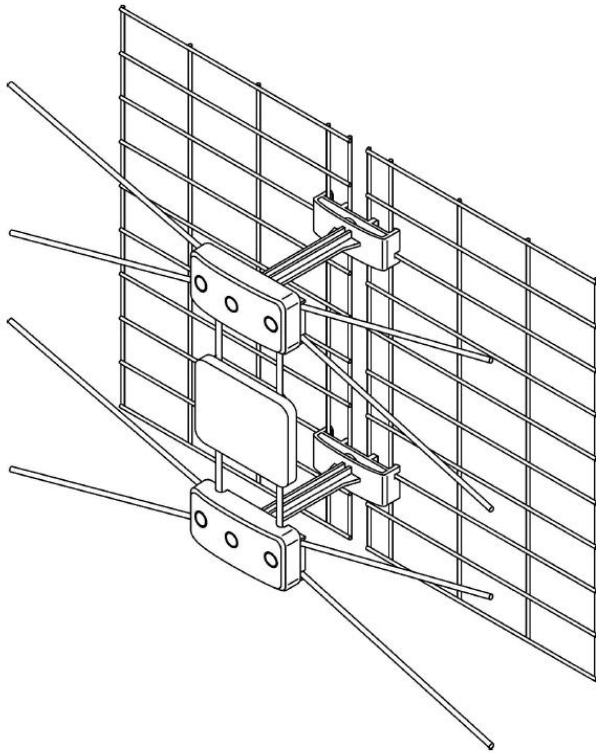
52: Class 14 24: Part F

71: BEYOND PLATINUM (PTY) LTD

33: EU 31: 007 839 022 - 0001 32: 2020-04-28

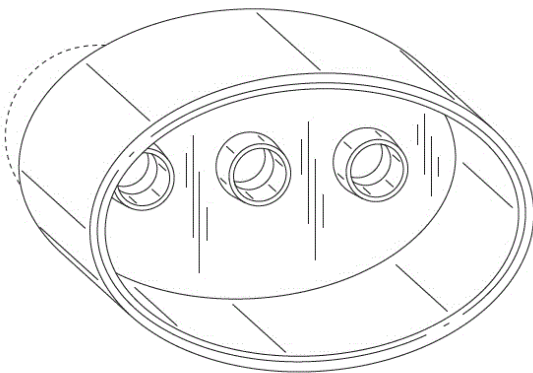
54: A GRID ANTENNA

57: The design is applied to an antenna of the kind that may be used to receive an ultra-high frequency (UHF) satellite television transmission. A grid of the antenna is provided as two components. The two grid components are secured to supports using two screws and clamping plates. The screws can be slightly loosened to hingely retain the two grid components to the supports under the clamping plates. The antenna will beneficially be packaged with one of the two grid components folded against the other to reduce the packaging size. Two pairs of dipoles are also removably connected to the supports.



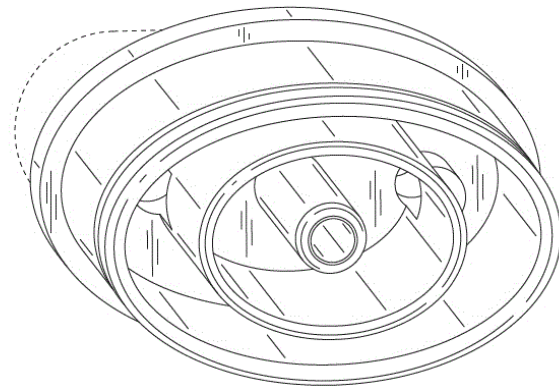
FRONT PERSPECTIVE VIEW

21: F2020/01490 22: 2020-11-19 23:
 43: 2021-06-02
 52: 23 24: Part F
 71: KPR U.S., LLC
 33: US 31: 29/735,672 32: 2020-05-22
 54: **FLUID CONNECTOR**
 57: The design is applied to a fluid connector and is shown in front left perspective view in a disassembled state in the drawing showing the overall appearance thereof.

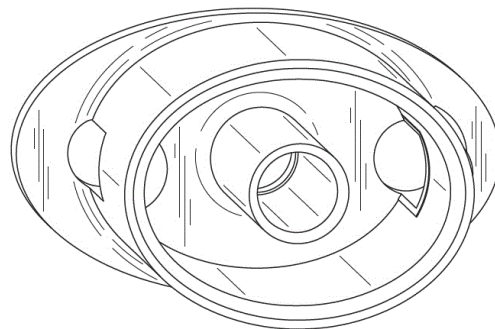


21: F2020/01491 22: 2020-11-19 23:

43: 2021-06-02
 52: 23 24: Part F
 71: KPR U.S., LLC
 33: US 31: 29/735,672 32: 2020-05-22
 54: **FLUID CONNECTOR**
 57: The design is applied to a fluid connector and is shown in front left perspective view in the drawing showing the overall appearance thereof.



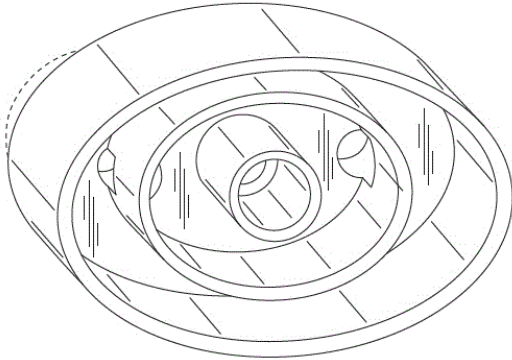
21: F2020/01492 22: 2020-11-19 23:
 43: 2021-06-02
 52: 23 24: Part F
 71: KPR U.S., LLC
 33: US 31: 29/735,672 32: 2020-05-22
 54: **FLUID CONNECTOR**
 57: The design is applied to a fluid connector and is shown in front left perspective view in a disassembled state in the drawing showing the overall appearance thereof.



21: F2020/01493 22: 2020-11-19 23:
 43: 2021-06-02
 52: 23 24: Part F
 71: KPR U.S., LLC
 33: US 31: 29/735,672 32: 2020-05-22

54: FLUID CONNECTOR

57: The design is applied to a fluid connector and is shown in front left perspective view in the drawing showing the overall appearance thereof.



21: F2020/01494 22: 2020-11-19 23:

43: 2021-06-02

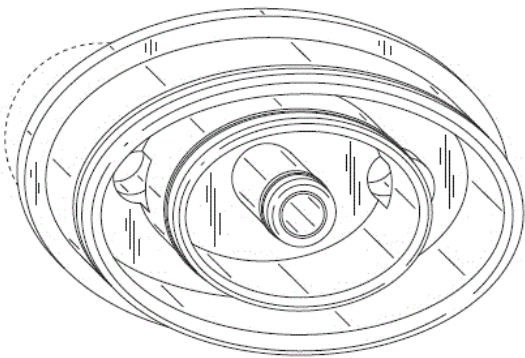
52: 23 24: Part F

71: KPR U.S., LLC

33: US 31: 29/735,672 32: 2020-05-22

54: FLUID CONNECTOR

57: The design is applied to a fluid connector and is shown in front left perspective view in the drawing showing the overall appearance thereof.



21: F2020/01495 22: 2020-11-19 23:

43: 2021-06-02

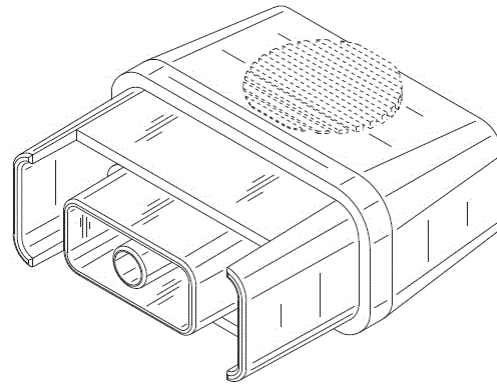
52: 23 24: Part F

71: KPR U.S., LLC

33: US 31: 29/735,675 32: 2020-05-22

54: FLUID CONNECTOR

57: The design is applied to a fluid connector and is shown in front right perspective view in the drawing showing the overall appearance thereof.



21: F2020/01496 22: 2020-11-19 23:

43: 2021-06-02

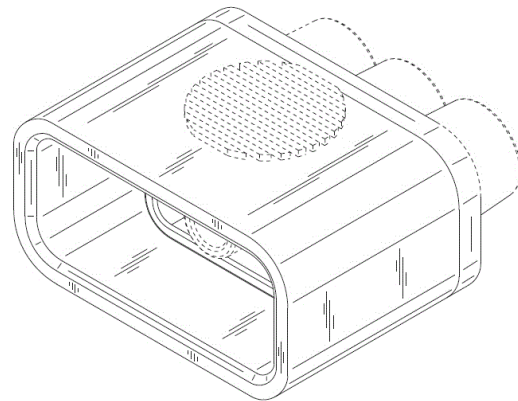
52: 23 24: Part F

71: KPR U.S., LLC

33: US 31: 29/735,675 32: 2020-05-22

54: FLUID CONNECTOR

57: The design is applied to a fluid connector and is shown in front right perspective view in the drawing showing the overall appearance thereof.



21: F2020/01510 22: 2020-11-24 23: 2020-08-01

43: 2021-06-08

52: 8 24: Part F

71: SGM MARKETING CC

54: A CUTTER WHEEL

57: The design is applied to a cutter wheel including cutter teeth that are cut straight and is shown in three-dimensional view in the drawing showing the overall appearance thereof.



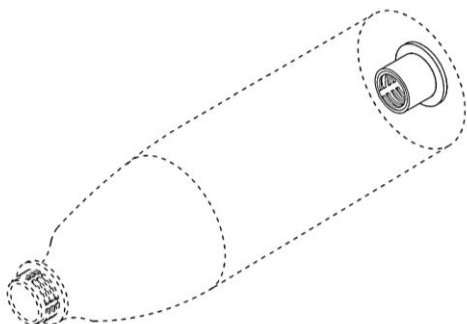
21: F2020/01594 22: 2020-12-09 23:
43: 2021-08-04

52: Class 09 24: Part F

71: BERTASSO, Mark Relio

54: CONTAINER INTERLOCKING FORMATION

57: The novelty of this design resides in the configuration of a CONTAINER INTERLOCKING FORMATION substantially as shown in the drawings and, in particular, the configuration of a sealed female connector moulded into the base of a container configured for interlocking with a similar container. The shape of the container is shown in dotted lines for illustration purposes only, does not form part of the design and is disclaimed.



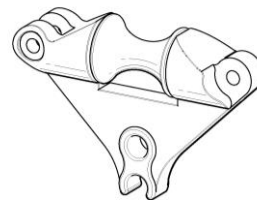
21: F2020/01596 22: 2020-12-09 23:
43: 2021-07-25

52: Class 12 24: Part F

71: BESTER, Francois Retief

54: APPARATUS FOR ATTACHING RESTRAINING MEANS TO A LINE

57: The features of the design for which protection is claimed reside in the shape and/or configuration of the apparatus for attaching restraining means to a line substantially as shown in the accompanying representations irrespective of the appearance of the features in dashed lines. The apparatus for attaching restraining means to a line is used for attaching a safety net to a powerline.



21: F2020/01598 22: 2020-12-09 23:

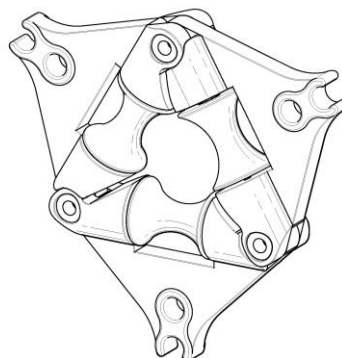
43: 2021-07-25

52: Class 12 24: Part F

71: BESTER, Francois Retief

54: APPARATUS FOR ATTACHING RESTRAINING MEANS TO A LINE

57: The features of the design for which protection is claimed reside in the shape and/or configuration of the apparatus for attaching restraining means to a line substantially as shown in the accompanying representations irrespective of the appearance of the features in dashed lines. The apparatus for attaching restraining means to a line is used for attaching a safety net to a powerline.



21: F2020/01626 22: 2020-12-17 23:

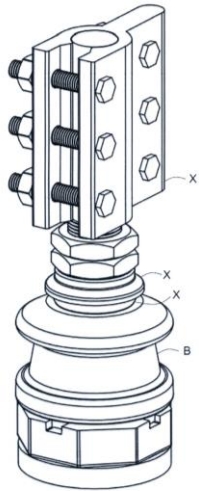
43: 2021-07-22

52: Class 13 24: Part F

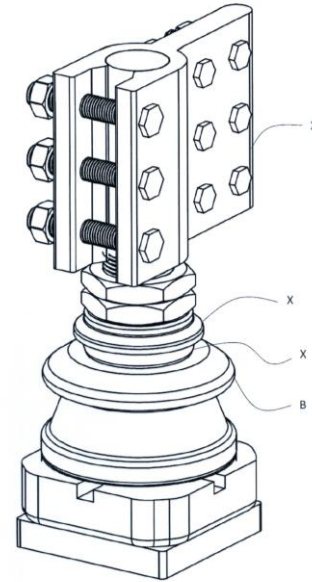
71: OUCO ELECTRICAL PRODUCTS (PTY) LTD

54: BUSHING (1)

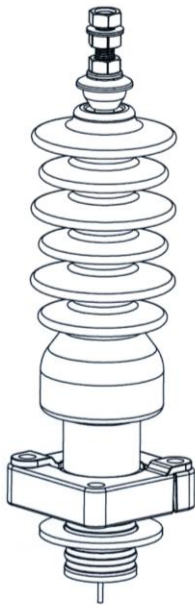
57: The novelty of the design resides in the shape or configuration of a body of a bushing marked "B". The components marked "X" are for illustrative purposes only and do not form part of the design.



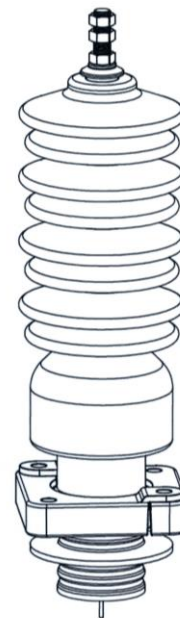
components marked "X" are for illustrative purposes only and do not form part of the design.



21: F2020/01627 22: 2020-12-17 23:
43: 2021-07-22
52: Class 13 24: Part F
71: OUCO ELECTRICAL PRODUCTS (PTY) LTD
54: BUSHING (2)
57: The novelty of the design resides in the shape or configuration of a bushing substantially as illustrated in the accompanying representation.



21: F2020/01629 22: 2020-12-17 23:
43: 2021-07-22
52: Class 13 24: Part F
71: OUCO ELECTRICAL PRODUCTS (PTY) LTD
54: BUSHING (4)
57: The novelty of the design resides in the shape or configuration of a bushing substantially as shown in the accompanying representation.



21: F2020/01628 22: 2020-12-17 23:
43: 2021-07-22
52: Class 13 24: Part F
71: OUCO ELECTRICAL PRODUCTS (PTY) LTD
54: BUSHING (3)
57: The novelty of the design resides in the shape or configuration of a body of a bushing marked "B". The

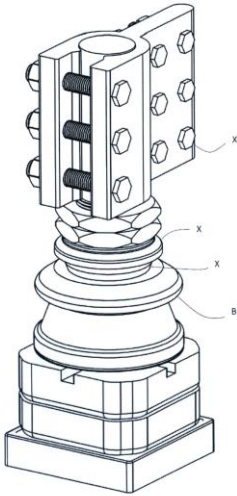
21: F2020/01630 22: 2020-12-17 23:
43: 2021-07-22

52: Class 13 24: Part F

71: OUCO ELECTRICAL PRODUCTS (PTY) LTD

54: BUSHING (5)

57: The novelty of the design resides in the shape or configuration of a body of a bushing marked "B". The components marked "X" are for illustrative purposes only and do not form part of the design.



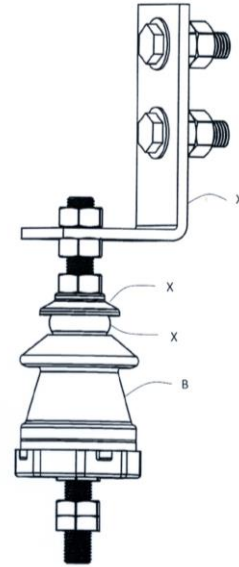
21: F2020/01631 22: 2020-12-17 23:
43: 2021-07-22

52: Class 13 24: Part F

71: OUCO ELECTRICAL PRODUCTS (PTY) LTD

54: BUSHING (6)

57: The novelty of the design resides in the shape or configuration of a body of a bushing marked "B". The components marked "X" are for illustrative purposes only and do not form part of the design.



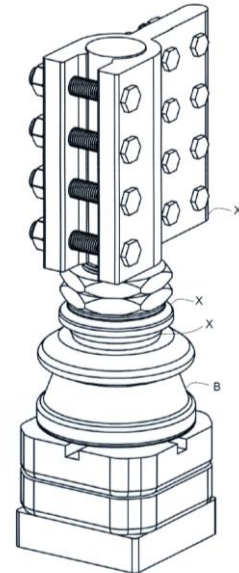
21: F2020/01632 22: 2020-12-17 23:
43: 2021-07-22

52: Class 13 24: Part F

71: OUCO ELECTRICAL PRODUCTS (PTY) LTD

54: BUSHING (7)

57: The novelty of the design resides in the shape or configuration of a body of a bushing marked "B". The components marked "X" are for illustrative purposes only and do not form part of the design.



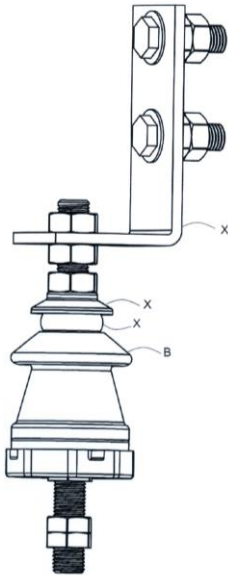
21: F2020/01633 22: 2020-12-17 23:
43: 2021-07-22

52: Class 13 24: Part F

71: OUCO ELECTRICAL PRODUCTS (PTY) LTD

54: BUSHING (8)

57: The novelty of the design resides in the shape or configuration of a body of a bushing marked "B". The components marked "X" are for illustrative purposes only and do not form part of the design.



21: F2020/01634 22: 2020-12-17 23:

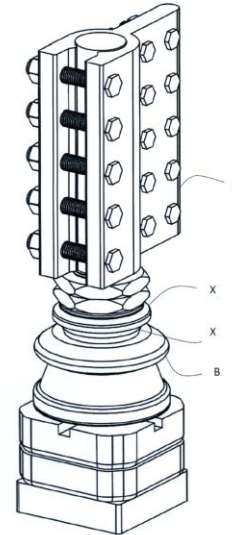
43: 2021-07-22

52: Class 13 24: Part F

71: OUCO ELECTRICAL PRODUCTS (PTY) LTD

54: BUSHING (9)

57: The novelty of the design resides in the shape or configuration of a body of a bushing marked "B". The components marked "X" are for illustrative purposes only and do not form part of the design.



21: F2020/01635 22: 2020-12-17 23:

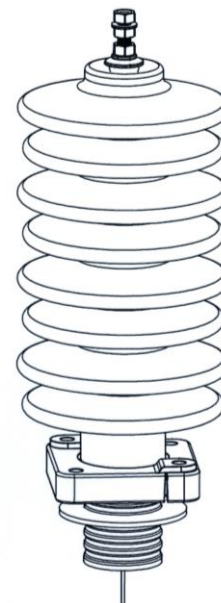
43: 2021-07-22

52: Class 13 24: Part F

71: OUCO ELECTRICAL PRODUCTS (PTY) LTD

54: BUSHING (10)

57: The novelty of the design resides in the shape or configuration of a bushing substantially as shown in the accompanying representation.



21: F2020/01636 22: 2020-12-17 23:

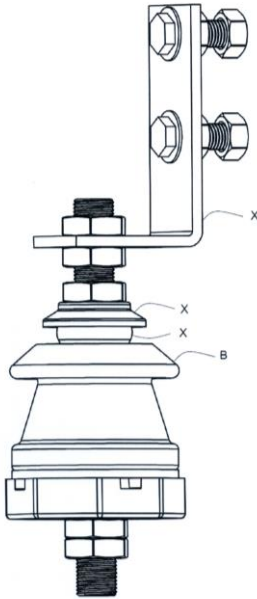
43: 2021-07-22

52: Class 13 24: Part F

71: OUCO ELECTRICAL PRODUCTS (PTY) LTD

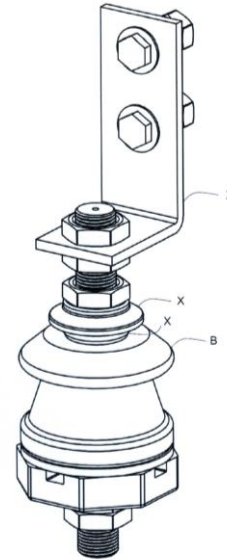
54: BUSHING (11)

57: The novelty of the design resides in the shape or configuration of a body of a bushing marked "B". The components marked "X" are for illustrative purposes only and do not form part of the design.



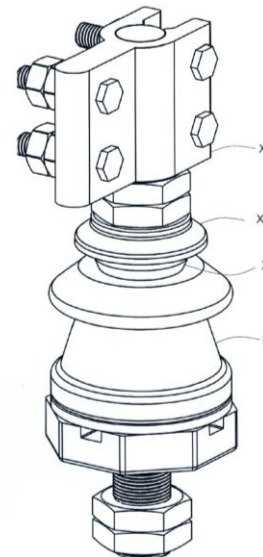
21: F2020/01637 22: 2020-12-17 23:
43: 2021-07-22
52: Class 13 24: Part F
71: OUCO ELECTRICAL PRODUCTS (PTY) LTD
54: BUSHING (12)

57: The novelty of the design resides in the shape or configuration of a body of a bushing marked "B". The components marked "X" are for illustrative purposes only and do not form part of the design.



21: F2020/01638 22: 2020-12-17 23:
43: 2021-07-22
52: Class 13 24: Part F
71: OUCO ELECTRICAL PRODUCTS (PTY) LTD
54: BUSHING (13)

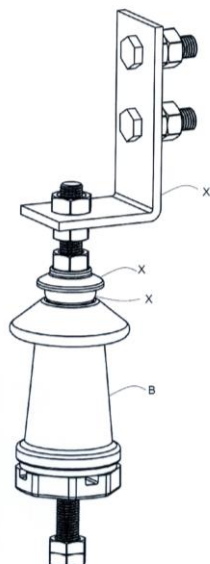
57: The novelty of the design resides in the shape or configuration of a body of a bushing marked "B". The components marked "X" are for illustrative purposes only and do not form part of the design.



21: F2020/01641 22: 2020-12-17 23:
43: 2021-09-21
52: Class 13 24: Part F
71: OUCO ELECTRICAL PRODUCTS (PTY) LTD

54: BUSHING (15)

57: The novelty of the design resides in the shape or configuration of a body of a bushing marked "B". The components marked "X" are for illustrative purposes only and do not form part of the design.



21: F2021/00012 22: 2021-01-08 23:

43: 2021-01-08

52: Class 13 24: Part F

71: Nelson Mandela University

54: WIND TURBINE BLADES

57: The design is applied to a wind turbine blade. The wind turbine blade comprises a body that comprises an elongate, gradually downwardly curved slanting upper surface which extends from a raised end of the body to a lower, downwardly curved end at the other end of the body. The body further comprises a gradually downwardly slanting lower surface that extends from the lower end of the body, and transitions into a raised serpentine surface which terminates in the raised end. The body is substantially slender and flares proximate the raised end.

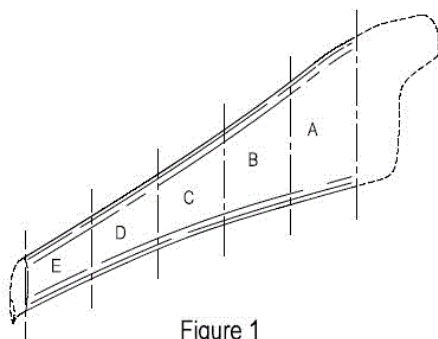


Figure 1

21: F2021/00013 22: 2021-01-08 23:

43: 2021-01-08

52: Class 25 24: Part F

71: Nelson Mandela University

54: WIND TURBINE BLADES

57: The design is applied to a wind turbine blade. The wind turbine blade comprises a body that comprises an elongate, gradually downwardly curved slanting upper surface which extends from a raised end of the body to a lower, downwardly curved end at the other end of the body. The body further comprises a gradually downwardly slanting lower surface that extends from the lower end of the body, and transitions into a raised serpentine surface which terminates in the raised end. The body is substantially slender and flares proximate the raised end.

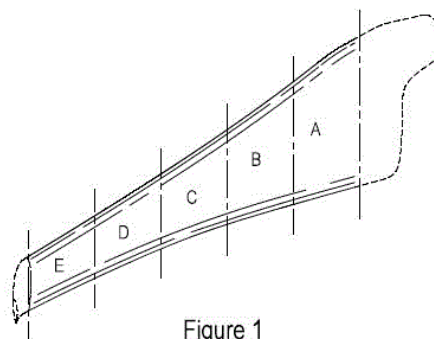


Figure 1

21: F2021/00026 22: 2021-01-15 23:

43: 2021-08-19

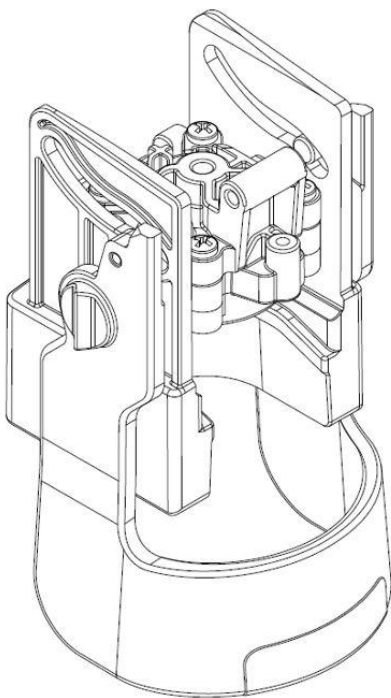
52: Class 31 24: Part F

71: SODASTREAM INDUSTRIES LTD.

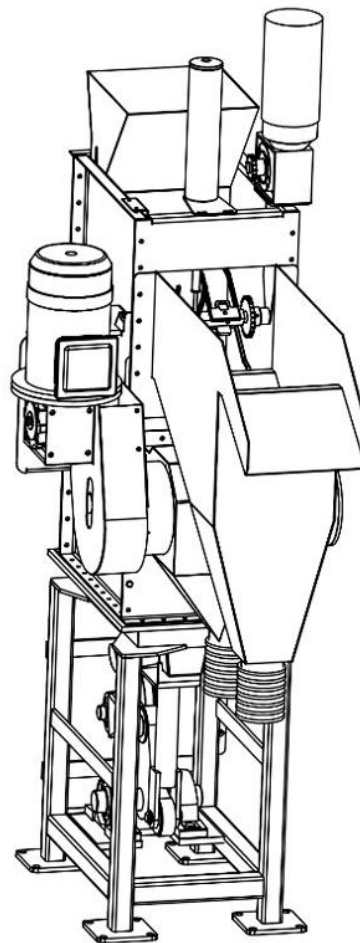
33: CH 31: 145444 32: 2020-07-17

54: CARBONATION MECHANISM

57: The design is for a carbonation mechanism as shown in the representations



pattern of the jig concentrator, substantially as illustrated in the accompanying representation. The features of the frame, linkages, drives, motors and gearboxes (21, 23, 25) of the jig concentrator do not form part of the design and are disclaimed.



21: F2021/00062 22: 2021-01-29 23:

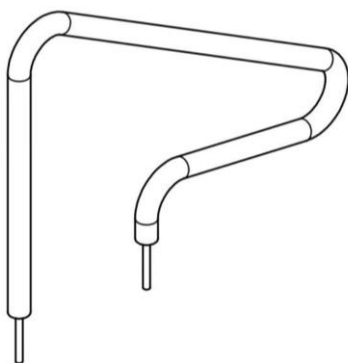
43: 2021-08-04

52: Class 25 24: Part F

71: KPR Pipe Rolling (Pty) Ltd

54: HANDRAIL

57: The novelty of this design resides in the shape and configuration of a HANDRAIL substantially as shown in the drawings.



21: F2021/00065 22: 2021-02-01 23:

43: 2021-10-04

52: Class 06 24: Part F

71: René Anna de Bruin

54: A SUPPORT

57: The features of the design for which novelty is claimed are the shape and / or configuration and / or pattern of a SUPPORT as shown in the accompanying representations.

21: F2021/00064 22: 2021-01-29 23:

43: 2021-08-23

52: Class 15 24: Part F

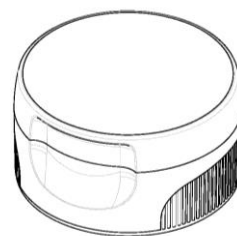
71: PULSATING JIGS INTERNATIONAL (PTY) LTD

54: JIG CONCENTRATOR

57: The design is applied to a jig concentrator. The features of the design for which protection is claimed are those of the shape and/or configuration and/or



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: F2021/00089 22: 2021-02-04 23:

43: 2021-09-21

52: Class 23 24: Part F

71: ACL Familietrust

54: TANK

57: The design relates to a Tank. The features of the design are those of shape and/or pattern and/or configuration.

21: F2021/00066 22: 2021-02-01 23:

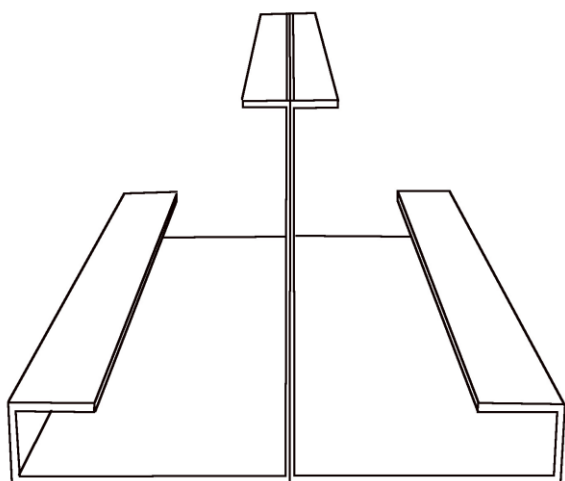
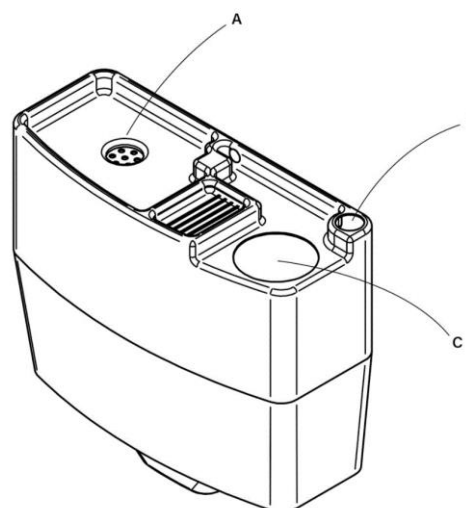
43: 2021-09-21

52: Class 25 24: Part F

71: Allen Clive Fiford

54: CONSTRUCTION ELEMENT

57: The features of the design for which protection is sought are those features of shape and/or configuration and/or pattern applied to the construction element shown in the representations.



21: F2021/00105 22: 2021-02-05 23:

43: 2021-08-04

52: Class 29 24: Part F

71: HURLEY, Philippa Gail

54: RESPIRATORY MASK

57: The novelty of this design resides in the shape and configuration of a RESPIRATORY MASK with a see-through front panel, substantially as shown in the drawings. The fastening straps shown in dotted lines are for illustration purposes, are disclaimed and do not form part of the design. The RESPIRATORY MASK has a hollow strip for a nose piece which is present in the drawings but is not necessarily included in the mask. The RESPIRATORY MASK also includes a circular-shaped valve which is shown

21: F2021/00068 22: 2021-02-02 23:

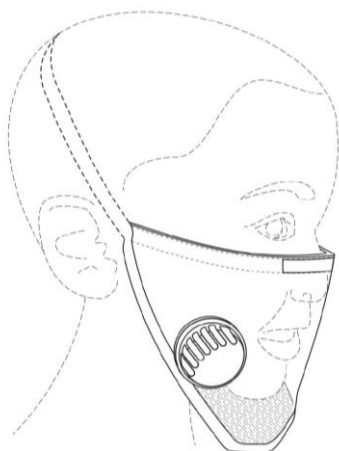
43: 2021-09-13

52: Class 09 24: Part F

71: Polyoak Packaging (Pty) Ltd

54: CLOSURE

on one side of the mask in the drawings but could be positioned on an opposed side of the mask.



21: F2021/00107 22: 2021-02-09 23:

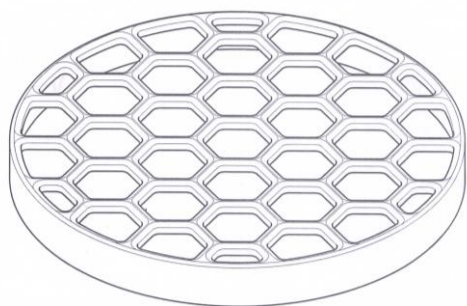
43: 2021-09-21

52: Class 11 24: Part F

71: HUXLI (PTY) LTD

54: FLOWER HOLDER

57: The novelty of the design resides in the shape or configuration of a flower holder substantially as shown in the accompanying drawings.



21: F2021/00138 22: 2021-02-15 23:

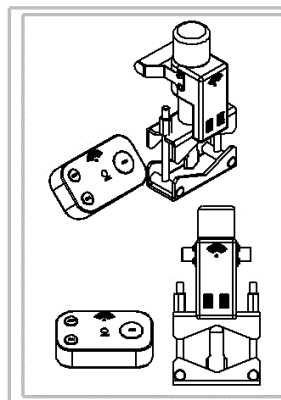
43: 2021-09-13

52: Class 22 24: Part F

71: Armandt Francois Booysen

54: WIRELESS SPIKING TOOL

57: The design relates to a Wireless Spiking Tool. The features of the design are those of shape and/or pattern and/or configuration.



21: F2021/00162 22: 2021-02-19 23:

43: 2021-09-13

52: Class 09 24: Part F

71: Dr. Ing. W. Frohn GmbH & Co. KG

33: EU 31: 008197537-0001 32: 2020-10-09

54: CANISTER

57: The features of the design for which protection is claimed include the shape and/or configuration of an article substantially as shown in the accompanying representation(s).



HYPOTHECATIONS

No records available

JUDGMENTS

No records available

OFFICE PRACTISE NOTICES

No records available

4. COPYRIGHT

COPYRIGHT IN CINEMATOGRAPH FILMS

NOTICES OF ACCEPTANCE

(Applications filed in terms of Act No. 62 of 1977)

Any person, who has grounds for objection to the registration of the copyright in any of the following cinematographs films, may within the prescribed time, lodge Notice of Opposition on Form RF 5 contained in the Second Schedule to the Registration of Copyright in Cinematograph Films Regulations, 1980. The prescribed time is one month after the date of advertisement .This period may on application be extended by the Registrar.

The numerical denote the following: **(21)** Official application number. **(22)** Date of application. **(43)** Date of acceptance. **(24)** Date(s) and place(s) at which cinematograph films was made. **(25)** Date and place of first publication. **(71)** Name (s) of all applicant (s). **(75)** Name of author. **(76)** Name of producer **(77)** Name of director **(54)** Title of cinematograph film. **(78)** Name(s) of principal players or narrator. **(26)** Places at which cinematograph film may be viewed and conditions. **(55)** Specimen lodged/Not lodged. **(56)** Preview requested/Not requested. **(57)** Abstract (Storyline). **(58)** Category.

No records available

HYPOTHECATIONS

No records available

JUDGMENTS

No records available

OFFICE PRACTISE NOTICES

No records available

5. CORRECTION NOTICES

TRADE MARK CORRECTION NOTICES

The trade mark under application number **2017/15073** in class 09 was advertised incorrectly in the July 2021 journal which appeared as **CLEAN CABLE SOLUTION** and it should have appeared as **clean cable solution** not in **CAPS** but in **small letters**. However the publication date will still remain the **28/07/2021**. The publication should have appeared as the one below in **the July 2021 journal**.

2017/15073 in Class 09: Television sets; Television receivers; Display panel for television; Monitors for commercial purpose; Electric cables, wires, conductors and connection fittings therefor; Connecting devices for televisions, namely, cable connectors; Connecting devices for photographic equipment, namely, cable connectors; Cable connectors; Stands for televisions. in the name of SAMSUNG ELECTRONICS CO., LTD., 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea. Address for service: Von Seidels, 1 Park Close, Central Park, Century City, 7441, SOUTH AFRICA

clean cable solution

Registration of this trade mark shall give no right to the exclusive use of the words "CLEAN", "CABLE" and "SOLUTION", separately and apart from the mark.

Priority is claimed by virtue of trade mark no: 016201238 filed in EU on 2016-12-23

FILED: 2017-05-31

PATENT CORRECTION NOTICES

The patent application number **2020/05792** was advertised in the September 2021 journal with an incorrect applicant's name which appeared as **I-MAB BIOPHARMA CO., LTD.** and the correct name should have appeared as **I-MAB BIOPHARMA (HANGZHOU) CO., LTD.** the assignment was done on the **30/04/2021**. The publication date will remain the **29/09/2021**.

The patent application number **2019/01835** was advertised in the September 2021 journal with an incorrect applicant's name which appeared as **I-MAB**. and the correct name should have appeared as **I-MAB BIOPHARMA (HANGZHOU) CO., LTD.** the assignment was done on the **30/04/2021**. The publication date will remain the **29/09/2021**.

The patent restoration application was advertised in the **June 2021 Journal**. However, there is an error on the advertisement for **2014/07797** the patent number is incorrectly typed as **(204/07797)** instead of **2014/07797** and the date of lapse is **25/11/2016** and **not 25/03/2016**.

The opposition period remain to run from **30 June 2021** and this restoration should have appeared as the one below.

Notice is hereby given **KONINKLIJKE PHILLIPS NV**, represented by **ADAMS & ADAMS of 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 **2014/07797** dated **25/03/2013** which became void on **25/11/2016** owing to the non-payment of the prescribed renewal fee.

Any person may give notice on Patent Form No.19 of Opposition to the restoration of the patent within two months of the advertisement thereof.

The patent application no: **2021/04855** was advertised in the **September 2021 journal** with one inventor instead of four inventors and also the publication drawing was omitted. The publication should have appeared as the one below and the publication date will remain **29/09/2021**.

21: 2021/04855. 22: 2021/07/12. 43: 2021/09/01 2:

51: C04B; E04F

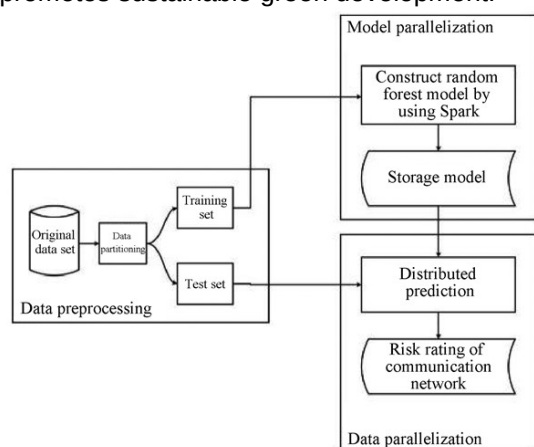
71: Anhui University of Science and Technology

72: **WANG, Liang; LIU Yanzhu; CHEN Peiyuan; SHEN Wenfeng; CAO, Ke**

54: PLASTERING MORTAR USING WASTE GYPSUM AS CEMENTING MATERIAL AND PREPARATION METHOD THEREOF

00: -

The present invention relates to plastering mortar using waste gypsum as a cementing material, wherein it is composed of the components with the following mass percentages: 27.78% of industrial waste gypsum, 10.83%-16.67% of water, 0-5.83% of diammonium hydrogen phosphate and 55% of fine sand. A preparation method includes: uniformly stirring the gypsum and the fine sand, adding a diammonium hydrogen phosphate solution, and performing uniform mixing. The gypsum mortar modified by the diammonium hydrogen phosphate has higher compactness, reduced porosity and higher compressive strength, is favorable for waste gypsum recycle and reutilization, reduces the pollution of the waste gypsum to the atmosphere, land and water resources, and promotes sustainable green development.



The patent application no: **2021/04646** was advertised in the **September 2021 journal**

21: 2021/04646. 22: 2021/07/05. 43: 2021/09/01

51: C03B

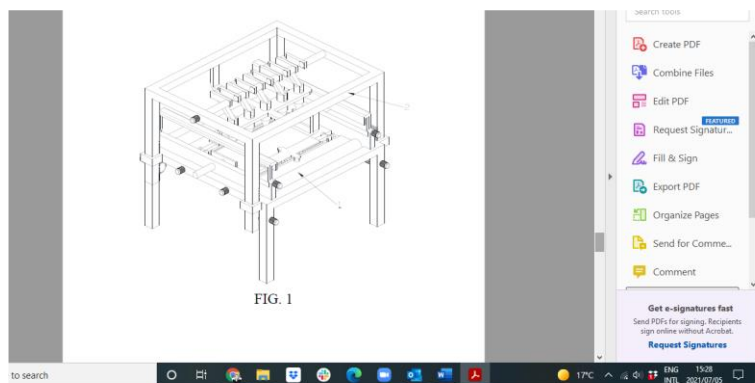
71: Anhui University of Science and Technology

72: HUANG, Guodong, SUN, Yuhua, YU, Qing, ZHANG, Xingyu

54: DETECTION DEVICE FOR CEMENT-BASED MATERIAL PRODUCTION

00: -

A detection device for cement-based material production is disclosed. The detection device includes a workbench, and a moving member is disposed on the workbench. Symmetrically distributed vertical plates are disposed on the workbench, a pressing plate is disposed on the vertical plate, a first motor is disposed on a side of the vertical plate, an output end of the first motor is tightly connected to the pressing plate, symmetrically distributed rollers are disposed between the vertical plates, a hydraulic rod is disposed on a side of the vertical plate, and a clamping plate is disposed on an output end of the hydraulic rod. The detection device of the present invention detects the impact resistance of a cement-based material by using a sliding member. The detection device is easy to use and firmly fixed, and has a small detection error. The detection device of the present invention is simple in structure, convenient in use, and low in costs.



The patent application no: **2017/03181** below was advertised in the August 2021 with an incorrect applicant's name which read as **ANTHROGENESIS CORPORATION** and it should have appeared as **Celularity Inc.** following the **P16** which was processed on the **22/07/2021**. This advertisement should have appeared as the one below however the publication date will remain the **25/08/2021**.

21: 2017/03181. 22: 2017/05/08. 43: 2021/06/22

51: C12N

71: Celularity Inc.

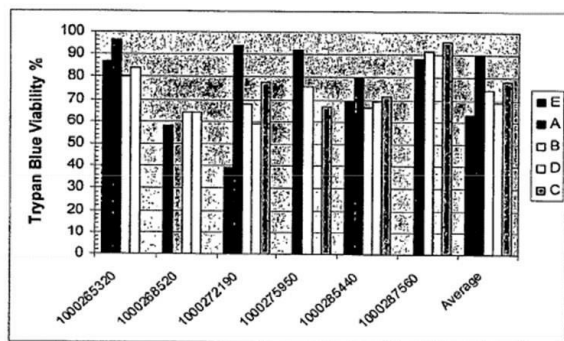
72: EDINGER, JAMES W, HARIRI, ROBERT J, LABAZZO, KRISTEN S, WANG, JIA-LUN, YE, QIAN

33: US 31: 60/754,698 32: 2005-12-29 33: US 31: 60/846,641 32: 2006-09-22

54: PLACENTAL STEM CELL POPULATIONS

00: -

The present invention provides placental stem cells and placental stem cell populations, and methods of culturing, proliferating and expanding the same. The invention also provides methods of differentiating the placental stem cells. The invention further provides methods of using the placental stem cells in assays and for transplanting.



The patent under application no: 2020/00769 was advertised in the August 2021 journal with incorrect abstract and drawing and it should have appeared as the one below following the P12 which was processed on the 28/01/2021 however the publication date will remain **25/08/2021**.

Here is the correct information for the above patent:

Application No : 2020/00769
 Date of application : 27 Jul 2018
 Acceptance Date : 3 Jun 2021
 Applicant : Elemental Engineering AG
 Class : A01G
 Inventor: Saeed, Osman
 Title : Subterranean Irrigation System

Priority : EP 17184984.7 filed 4 Aug 2017

Abstract: A subterranean irrigation system (100) has a plurality of fluid conduit (130) for applying a liquid from a source to an area of ground, to which said liquid is to be applied while avoiding interference with the above-ground use of such area, wherein the fluid conduits (130) are connected (140; 500) relative to one another and wherein the plurality of fluid conduits (130) comprise a plurality of outlets to effect the distribution of the liquid to the ground area, wherein the plurality of outlets (600; 621, 622, 623; 800; 821, 822, 823) are provided at an underside (602, 802) of a nose-shaped spout attachment (600, 800), wherein the spout attachment (600; 800) is attached at the side in the upper half of the fluid conduit (130; 230; 720) and wherein the underside (602; 802) comprises a rounded surface starting tangentially from the outer diameter of the fluid conduit (130; 230; 720) and ends in the nose-shaped free end of the spout attachment (600; 800).

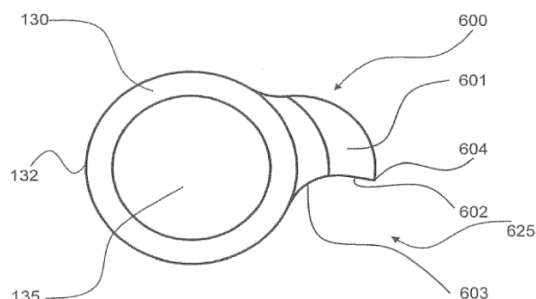


Fig. 29

The patent under application no: 2021/03988 was advertised in the September 2021 journal with incorrect abstract and drawing and it should have appeared as the one below following the P4 which was processed on the 13/10/2021 however the publication date will remain **29/09/2021**.

21: 2021/03988. 22: 2021/06/10. 43: 2021/09/06

51: G01N

71: Jiangsu Lianhuan Pharmaceutical Co., Ltd.

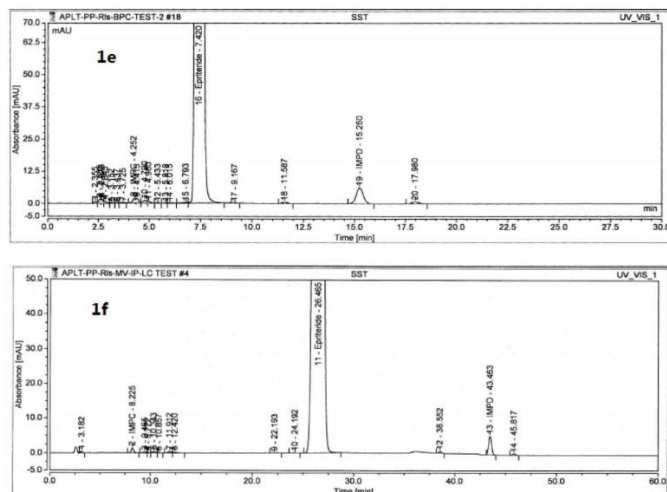
72: CHU, Qingsong, NIU, Ben, JIA, Zhixiang, ZHAO, Jie

33: CN 31: 202010545610.5 32: 2020-06-15

54: METHOD FOR DETERMINING CONTENT OF IMPURITIES IN EPRISTERIDE TABLET BY HPLC

00: -

The present disclosure discloses a method for determining content of impurities in an Epristeride tablet by high-performance liquid chromatography (HPLC), belonging to the technical field of pharmaceutical analysis. The method includes the following steps: 1) preparing a test solution and a control solution; 2) setting HPLC conditions: octadecyl silane as a filler in a 250 mm x 4.6 mm chromatographic column, the filler having a grain size of 5 microm, and the column temperature being 35C, a mixed solution of water, glacial acetic acid and diethylamine as a mobile phase A, methanol as a mobile phase B, and a flow rate of 1.0 mL/min, for gradient elution; 3) respectively precisely absorbing the test solution and the control solution, and injecting the two solutions into a liquid chromatograph; then recording chromatograms.



The patent under application no: 2021/05376 was advertised in the September 2021 journal without a drawing and it should have appeared as the one below however the publication date will remain **29/09/2021**.

21: 2021/05376. 22: 2021/07/29. 43: 2021/08/27

51: A01B

71: QINGDAO AGRICULTURAL UNIVERSITY

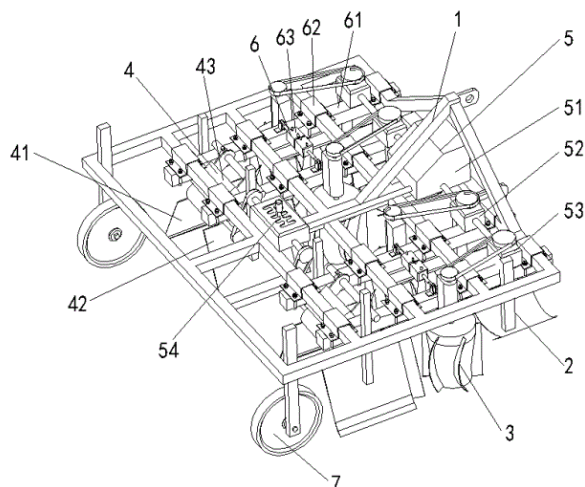
72: CHEN, Mingdong, SHANG, Shuqi

33: CN 31: 202010826521.8 32: 2020-08-17

54: MULTIFUNCTIONAL RIDGING MACHINE

00: -

The present disclosure provides a multifunctional ridging machine. The multifunctional ridging machine includes a frame, soil turning ploughshare groups, soil throwing devices, ridge shaping devices, a transmission device, a ridge width and spacing adjusting device and a depth limiting wheel, where the ridge width and spacing adjusting device is movably provided on the frame, and is movable on the left and right; the ridge width and spacing adjusting device is sequentially provided with the soil turning ploughshare group, the soil throwing device and the ridge shaping device from front to back; the depth limiting wheel is provided behind the frame; the transmission device is provided on the frame, and is respectively connected with the soil throwing device and the ridge shaping device through a belt wheel. The present disclosure can realize adjustable ridge width, height and spacing and high ridge compactness and feature strong versatility, high practicability, simple operation and high efficiency.



The patent under application no: 2021/05217 was advertised in the September 2021 journal without a drawing and it should have appeared as the one below however the publication date will remain **29/09/2021**.

21: 2021/05217. 22: 2021/07/23. 43: 2021/08/27

51: A01D; A01F

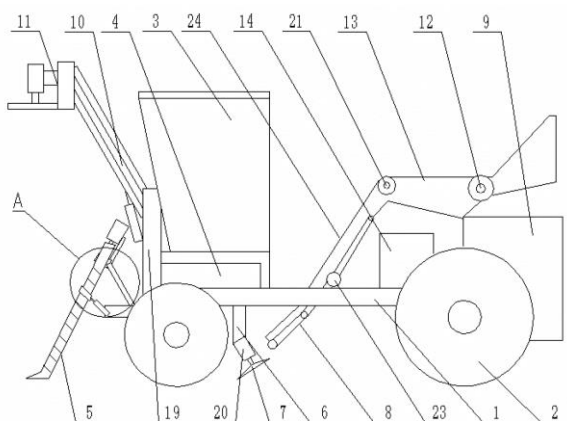
71: Nanjing Agricultural University

72: Gao Huisong, Xue Jinlin

54: ELECTRIC SUGARCANE HARVESTER

00: -

The invention discloses an electric sugarcane harvester, which comprises a machine frame and a driving wheel arranged on the frame, and is characterized in that a grain supporting part, a trimming part, a cab, a conveying part and a sugarcane collecting box are sequentially arranged on the machine frame, a battery pack is arranged between the machine frame and the cab, which is fixedly connected with the machine frame. A cutter is installed on the bottom surface of the machine frame. The cutter is located between the trimming part and the conveying part, and is arranged correspondingly to the conveying part. The grain supporting part, trimming part, conveying part and cutter are all electrically connected with the battery pack. According to the invention, the electric sugarcane harvester is powered by the battery pack, and the motor drives the machine to walk and various operating parts to operate without fuel oil, low noise and no emission; the transmission system is simplified. Driven by motor, the stepless speed regulation of the sugarcane harvester is realized.



DESIGNS CORRECTION NOTICES

No records available

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No records available

DESIGNS

Advertisement List for October 2021

Number of Advertised Designs: 133

Application Number	Design Articles	Filing Date
A2019/00996	CABINS FOR VEHICLES	2019/07/23
A2019/00997	CABINS FOR VEHICLES	2019/07/23
A2019/00998	CABINS FOR VEHICLES	2019/07/23
A2019/00999	CABINS FOR VEHICLES	2019/07/23
A2019/01000	CABINS FOR VEHICLES	2019/07/23
A2019/01001	CABINS FOR VEHICLES	2019/07/23
A2019/01002	CABINS FOR VEHICLES	2019/07/23
A2019/01003	CABINS FOR VEHICLES	2019/07/23
A2019/01004	CABINS FOR VEHICLES	2019/07/23
A2020/00563	BINARY TOWER DESIGN FOR UPGRADING EXISTING TOWERS	2020/05/08
A2020/00564	THE AQUA DIAMOND TOWERS	2020/05/08
A2020/00565	THE CROWN HOTEL DESIGNS AND VARIANT ASSEMBLIES	2020/05/08
A2020/00689	SETS OF CEILING BULKHEAD COMPONENTS FOR PROVIDING CEILING BULKHEAD ASSEMBLIES	2020/05/29
A2020/00701	SETS OF CEILING BULKHEAD COMPONENTS FOR PROVIDING CEILING BULKHEAD ASSEMBLIES	2020/05/29
A2020/00702	CORNICES	2020/05/29
A2020/00704	TRIMS FOR CEILINGS	2020/05/29
A2020/00708	SETS OF CEILING BULKHEAD COMPONENTS FOR PROVIDING CEILING BULKHEAD ASSEMBLIES	2020/05/29
A2020/00941	DISPLAY ARRANGEMENT	2020/07/08
A2020/01034	A REMOTE CONTROL UNIT	2020/07/29
A2020/01204	FABRIC	2020/09/04
A2020/01207	FABRIC	2020/09/04
A2020/01374	INJECTION DEVICE	2020/10/21
A2020/01400	A GRID ANTENNA	2020/10/27
A2020/01451	ELECTRONIC DEVICE	2020/11/09
A2020/01452	COVER FOR ELECTRONIC DEVICE	2020/11/10
A2020/01453	ELECTRONIC DEVICE	2020/11/10
A2020/01462	COVER FOR ELECTRONIC DEVICE	2020/11/11
A2020/01463	COVER FOR ELECTRONIC DEVICE	2020/11/11
A2020/01488	SALT GRINDER WITH UNIQUELY TEXTURED LID AND BODY	2020/11/16
A2020/01553	MOVEMENT SENSOR	2020/11/30
A2020/01590	VEHICLE ROOF TOP WATER TANK	2020/12/07
A2020/01595	APPARATUS FOR ATTACHING RESTRAINING MEANS TO A LINE	2020/12/09
A2020/01597	APPARATUS FOR ATTACHING	2020/12/09

Application Number	Design Articles	Filing Date
	RESTRAINING MEANS TO A LINE	
A2020/01609	Gardening Tools	2020/12/10
A2020/01610	Gardening Tools	2020/12/10
A2020/01613	BABY-SHAPED SOAP BAR	2020/12/11
A2020/01615	WATCHES	2020/12/14
A2020/01616	WATCHES	2020/12/14
A2020/01617	WATCHES	2020/12/14
A2020/01618	WATCHES	2020/12/14
A2020/01619	WATCHES	2020/12/14
A2020/01624	TIRES	2020/12/17
A2020/01656	CONVECTION OVEN	2020/12/21
A2020/01669	MEDICAL GARMENT	2020/12/22
A2021/00002	Bottle with a Rhinoceros Shape	2021/01/04
A2021/00003	Bowl with a Flanged Rim	2021/01/04
A2021/00004	Bottle with a Lion Shape	2021/01/04
A2021/00005	Wheel	2021/01/04
A2021/00006	MEDICAL EQUIPMENT	2021/01/04
A2021/00007	CAPS FOR MEDICAL EQUIPMENT	2021/01/04
A2021/00008	A KEYPAD FOR AN ALARM	2021/01/05
A2021/00010	PRECIOUS STONE	2021/01/08
A2021/00011	PRECIOUS STONE	2021/01/08
A2021/00014	Container Rack	2021/01/08
A2021/00015	Container Rack	2021/01/08
A2021/00016	Portion of a Container Rack	2021/01/08
A2021/00018	Portion of a Container Rack	2021/01/08
A2021/00019	Toy Car	2021/01/13
A2021/00029	MOTOR VEHICLES	2021/01/20
A2021/00032	Blender	2021/01/21
A2021/00033	Blender Container	2021/01/21
A2021/00036	Blender Container	2021/01/21
A2021/00039	INHALERS	2021/01/22
A2021/00040	INHALERS	2021/01/22
A2021/00041	Packaging	2021/01/22
A2021/00042	Charger	2021/01/22
A2021/00047	SCOOTERS	2021/01/26
A2021/00048	SCOOTERS	2021/01/26
A2021/00050	PROSTHETIC FOOT	2021/01/27
A2021/00061	Applicators	2021/01/29
A2021/00063	Hanger	2021/01/29
A2021/00067	CLOSURE	2021/02/02
A2021/00078	SANITARY FAUCET	2021/02/03
A2021/00079	SANITARY FAUCET	2021/02/03
A2021/00080	SANITARY SHOWER	2021/02/03
A2021/00081	HAND SHOWER	2021/02/03
A2021/00098	SOCK PACKAGING	2021/02/05
A2021/00161	CANISTER	2021/02/19
A2021/00903	FOOTWEAR	2021/07/27
A2021/00904	FOOTWEAR	2021/07/27
A2021/00905	FOOTWEAR	2021/07/27
F2019/00962	FLOW MODIFYING COMPONENTS	2019/07/17

Application Number	Design Articles	Filing Date
F2020/00700	CORNICES	2020/05/29
F2020/00703	CORNICES	2020/05/29
F2020/00706	SETS OF CEILING BULKHEAD COMPONENTS FOR PROVIDING CEILING BULKHEAD ASSEMBLIES	2020/05/29
F2020/00707	SETS OF CEILING BULKHEAD COMPONENTS FOR PROVIDING CEILING BULKHEAD ASSEMBLIES	2020/05/29
F2020/00709	SETS OF CEILING BULKHEAD COMPONENTS FOR PROVIDING CEILING BULKHEAD ASSEMBLIES	2020/05/29
F2020/00890	MULTI-PURPOSE TRAILERS	2020/06/24
F2020/01093	BLOCKS	2020/08/12
F2020/01123	NETWORK CABINET	2020/08/18
F2020/01206	CHEEK PLATE FOR SNATCH BLOCK	2020/09/04
F2020/01334	A SET OF SWING MECHANISMS FOR A SCAFFOLD SWING GATE	2020/10/06
F2020/01335	SCAFFOLD HATCH	2020/10/06
F2020/01385	MODULAR CONTAINER	2020/10/22
F2020/01401	A GRID ANTENNA	2020/10/27
F2020/01490	FLUID CONNECTOR	2020/11/19
F2020/01491	FLUID CONNECTOR	2020/11/19
F2020/01493	FLUID CONNECTOR	2020/11/19
F2020/01494	FLUID CONNECTOR	2020/11/19
F2020/01495	FLUID CONNECTOR	2020/11/19
F2020/01496	FLUID CONNECTOR	2020/11/19
F2020/01510	A CUTTER WHEEL	2020/11/24
F2020/01594	CONTAINER INTERLOCKING FORMATION	2020/12/09
F2020/01596	APPARATUS FOR ATTACHING RESTRAINING MEANS TO A LINE	2020/12/09
F2020/01598	APPARATUS FOR ATTACHING RESTRAINING MEANS TO A LINE	2020/12/09
F2020/01626	BUSHING (1)	2020/12/17
F2020/01627	BUSHING (2)	2020/12/17
F2020/01628	BUSHING (3)	2020/12/17
F2020/01629	BUSHING (4)	2020/12/17
F2020/01630	BUSHING (5)	2020/12/17
F2020/01631	BUSHING (6)	2020/12/17
F2020/01632	BUSHING (7)	2020/12/17
F2020/01633	BUSHING (8)	2020/12/17
F2020/01634	BUSHING (9)	2020/12/17
F2020/01635	BUSHING (10)	2020/12/17
F2020/01636	BUSHING (11)	2020/12/17
F2020/01637	BUSHING (12)	2020/12/17
F2020/01638	BUSHING (13)	2020/12/17
F2020/01641	BUSHING (15)	2020/12/17
F2021/00012	WIND TURBINE BLADES	2021/01/08
F2021/00013	WIND TURBINE BLADES	2021/01/08
F2021/00026	CARBONATION MECHANISM	2021/01/15
F2021/00062	HANDRAIL	2021/01/29

Application Number	Design Articles	Filing Date
F2021/00064	JIG CONCENTRATOR	2021/01/29
F2021/00065	A SUPPORT	2021/02/01
F2021/00066	CONSTRUCTION ELEMENT	2021/02/01
F2021/00068	CLOSURE	2021/02/02
F2021/00089	TANK	2021/02/04
F2021/00105	RESPIRATORY MASK	2021/02/05
F2021/00107	FLOWER HOLDER	2021/02/09
F2021/00138	WIRELESS SPIKING TOOL	2021/02/15
F2021/00162	CANISTER	2021/02/19

PATENTS

Advertisement List for October 2021

Number of Advertised Patents: 548

Application Number	Patent Title	Filing Date
2007/03583	SEED OIL COMPOSITIONS	2007/05/03
2012/08543	HIGH CONCENTRATION ANTIBODY FORMULATIONS	2012/11/13
2014/02455	RESTRICTED IMMUNOGLOBULIN HEAVY CHAIN MICE	2014/04/01
2014/03633	ACC INHIBITORS AND USES THEREOF	2014/05/19
2014/04961	A LINEAR ELECTRICAL MACHINE	2014/07/07
2015/00439	COMPOUNDS THAT ARE S1P MODULATING AGENTS AND/OR ATX MODULATING AGENTS	2015/01/21
2015/00921	ALKYLPYRIMIDINE DERIVATIVES FOR THE TREATMENT OF VIRAL INFECTIONS AND FURTHER DISEASES	2015/02/09
2015/01795	METHOD OF SYNTHESIZING THYROID HORMONE ANALOGS AND POLYMORPHS THEREOF	2015/03/16
2015/04515	METHOD FOR MAKING MINERAL SALT AND MINERAL SALT PRODUCT	2015/06/23
2015/06029	POLYCRYSTALLINE COMPACT TABLES FOR CUTTING ELEMENTS AND METHODS OF FABRICATION	2015/08/20
2016/02064	SPIN COATER FOR APPLYING MULTIPLE COATINGS TO AN OPTICAL SUBSTRATE	2016/03/29
2016/02203	TREATED FILLERS, COMPOSITIONS CONTAINING SAME, AND ARTICLES PREPARED THEREFROM	2016/04/04

Application Number	Patent Title	Filing Date
2016/05946	TREATMENTS FOR RESISTANT ACNE	2015/01/29
2016/06686	IMPROVED MATTRESS	2016/09/27
2017/01557	WAVE ENERGY CONVERTER	2017/03/02
2017/01844	ANTIBODY CAPABLE OF NEUTRALIZING SUBSTANCE HAVING ACTIVITY ALTERNATIVE TO FUNCTION OF COAGULATION FACTOR VIII (FVIII)	2017/03/15
2017/02372	HIGH POROSITY CERIUM AND ZIRCONIUM CONTAINING OXIDE	2017/04/04
2017/02477	DENSITY MEASUREMENT SYSTEM AND METHOD	2017/04/07
2017/02625	SLURRY PUMP IMPELLER	2017/04/12
2017/02937	METHOD FOR ANTI-SPROUTING TUBER TREATMENT WITH REDUCED AMOUNT OF CIPC	2017/04/26
2017/03270	METHOD OF PREPARING A MULTIMODAL CUBIC BORON NITRIDE POWDER	2017/05/11
2017/03779	TREATMENT OF DISEASES ASSOCIATED WITH HEPATIC STELLATE CELL ACTIVATION USING AMMONIA-LOWERING THERAPIES	2015/11/23
2017/03881	PNEUMOLYSIN MUTANTS AND METHODS OF USE THEREOF	2015/11/20
2017/04063	PRODUCTION PROCESS OF CRYSTALS OF DIAZABICYCLOOCTANE DERIVATIVE AND STABLE LYOPHILIZED PREPARATION	2015/12/04
2017/04192	ACC INHIBITORS AND USES THEREOF	2017/06/19
2017/04200	COUMARIN-BASED COMPOUNDS AND RELATED METHODS	2016/01/19
2017/04923	DRILLING TOOLS HAVING MATRICES WITH CARBIDE-FORMING ALLOYS, AND METHODS OF MAKING AND USING SAME	2016/01/12
2017/06875	DE NOVO BINDING DOMAIN CONTAINING POLYPEPTIDES AND USES THEREOF	2017/10/11
2018/00191	COMPOSITIONS AND METHODS FOR DETECTION OF MALARIA PARASITE BIOMARKERS	2016/06/17
2018/01823	PALLET CONTAINER	2018/03/19
2018/02231	MINERAL BENEFICIATION UTILIZING ENGINEERED MATERIALS FOR MINERAL SEPARATION AND COARSE PARTICLE RECOVERY	2018/04/05

Application Number	Patent Title	Filing Date
2018/02448	CO-THERAPY COMPRISING CANAGLIFLOZIN AND PHENTERMINE FOR THE TREATMENT OF OBESITY AND OBESITY RELATED DISORDERS	2018/04/13
2018/02607	SODIUM ZINC ALGINATE STRUCTURANT AND METHODS FOR MAKING AND USING SAME	2018/04/19
2018/02616	SUPERCAPACITOR BASED ENERGY STORAGE DEVICE	2018/04/19
2018/02845	OXADIAZASPIRO COMPOUNDS FOR THE TREATMENT OF DRUG ABUSE AND ADDICTION	2018/04/30
2018/03531	PROTEIN KINASE INHIBITOR, PREPARATION METHOD AND MEDICAL USE THEREOF	2018/05/28
2018/04070	EIF4-A-INHIBITING COMPOUNDS AND METHODS RELATED THERETO	2018/06/18
2018/04078	ATR BASED AMMONIA PROCESS AND PLANT	2017/02/02
2018/04229	CFTR REGULATORS AND METHODS OF USE THEREOF	2016/12/23
2018/04400	MICROBIAL CONSORTIA	2016/08/31
2018/04629	CONTROL PROCESS OF A START-STOP DEVICE FOR A COMBUSTION ENGINE OF A GENERATOR UNIT CARRIED ON AN ELECTRIC DRIVE HEAVY-DUTY VEHICLE, AND START-STOP DEVICES FOR SUCH COMBUSTION ENGINE	2016/12/09
2018/04630	START-STOP DEVICE FOR A COMBUSTION ENGINE, COMBUSTION ENGINE CONTROL SYSTEM, AND CONTROL PROCESS OF SUCH SYSTEM	2016/12/09
2018/04851	GEOSYNTHETIC REINFORCED WALL PANELS COMPRISING SOIL REINFORCING MEMBERS	2017/02/02
2018/06206	FLOW MIXING T-UNIT OF REACTOR VOLUME CONTROL SYSTEM	2018/09/14
2018/07352	A PROCESS FOR PRODUCING MONO¿ALKYLATED AROMATIC COMPOUND	2018/11/02
2018/08161	PHENOL COMPOUND AND COMBINATION OF SAME WITH A BENZODIAZEPINE FUSED TO 1,4-DIHYDROPYRIDINE FOR TREATING DISEASES OF THE CENTRAL NERVOUS AND VASCULAR SYSTEMS	2018/12/03
2018/08284	GDF15 FUSION PROTEINS AND USES THEREOF	2018/12/07

Application Number	Patent Title	Filing Date
2018/08295	BINDERLESS CBN SINTERING WITH CUBIC PRESS	2018/12/07
2018/08636	SYSTEM FOR MONITORING LEAKS OF LIQUID FROM A SPENT FUEL POOL	2018/12/20
2019/00052	PHARMACEUTICAL COMBINATIONS FOR TREATING CANCER	2019/01/04
2019/00706	PUMPABLE RESIN SYSTEM	2019/02/04
2019/00828	THREE-DIMENSIONAL PERCEPTIONS IN HAPTIC SYSTEMS	2019/02/08
2019/00928	METHOD AND ARRANGEMENT FOR MODIFYING A SEPARABLE PROJECTILE	2019/02/13
2019/01365	REDUCTION OF RHODIUM ETHYLENE DIAMINE SALT	2019/03/05
2019/01744	CRYSTALLINE AND SALT FORMS OF PPAR AGONIST COMPOUNDS	2017/10/05
2019/02105	PERFUME DIFFUSER	2019/04/04
2019/02125	PROCESS FOR THE PRODUCTION OF 2-ALKYLALKANOL	2017/10/12
2019/02265	ANTI-PD-1 ANTIBODIES AND THEIR USES	2019/04/10
2019/02447	TRANSTHYRETIN (TTR) IRNA COMPOSITIONS AND METHODS OF USE THEREOF FOR TREATING OR PREVENTING TTR-ASSOCIATED DISEASES	2016/07/28
2019/02482	ASYMMETRIC KEY MANAGEMENT IN CONSORTIUM BLOCKCHAIN NETWORKS	2019/04/17
2019/02710	BENZODIAZOLIUM COMPOUNDS AS ENAC INHIBITORS	2019/04/30
2019/02765	2-AMINO-N-(ARYLSULFINYL)-ACETAMIDE COMPOUNDS AS INHIBITORS OF BACTERIAL AMINOACYL-TRNA SYNTHETASE	2017/10/06
2019/02889	SEAL RELEASING CLOSURE ASSEMBLY	2019/05/09
2019/03416	BACILLUS-BASED COMPONENTS FOR INHIBITING OR DELAYING THE GROWTH OF ENTEROCOCCUS SPP. IN ANIMALS	2017/12/13
2019/03494	VERTICAL THRUST LEG	2019/05/31
2019/03543	WAKE-UP SIGNAL WITH FREQUENCY INFORMATION	2017/02/13
2019/03579	METHOD FOR MANUFACTURING A COMPLEX-FORMED COMPONENT	2017/11/22
2019/03608	METHODS FOR TREATMENT OF POLYCYSTIC KIDNEY DISEASE	2017/12/04
2019/03609	DRILL BITS	2017/11/29
2019/03629	GEL PRODUCTION SYSTEM AND	2017/11/08

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	METHOD	
2019/03900	FLOW CELL PACKAGE AND METHOD FOR MAKING THE SAME	2017/12/20
2019/04000	A METHOD AND SYSTEM FOR ANALYSING A BIOLOGICAL SAMPLE OF LABEL-FREE CELLS FOR PRESENCE OF AN INFECTIVE AGENT	2019/06/20
2019/04060	METHOD FOR MANUFACTURING A WELDABLE METAL-POLYMER MULTILAYER COMPOSITE	2017/12/14
2019/04076	METHOD FOR CONSTRUCTING IMMORTALIZED PORCINE HEPATIC STELLATE CELL LINE, IMMORTALIZED PORCINE HEPATIC STELLATE CELL LINE, AND USE THEREOF	2019/06/24
2019/04085	USE OF A MIXTURE OF A COMPLEX ESTER WITH A MONOCARBOXYLIC ACID TO REDUCE FRICTION	2019/06/24
2019/04135	CONCATENATED POLAR CODE WITH ADAPTIVE ERROR DETECTION	2018/02/06
2019/04185	TIANEPTINE OXALATE SALTS AND POLYMORPHS	2017/12/28
2019/04226	AQUEOUS POLYESTER DISPERSIONS, ARTICLES HAVING A COATING FORMED FROM SUCH AQUEOUS DISPERSIONS, AND METHODS OF COATING	2019/06/27
2019/04255	DOUBLE-BUSBAR HIGH VOLTAGE SWITCHGEAR	2019/06/28
2019/04268	SYSTEM AND METHOD FOR SOLAR VAPOR EVAPORATION AND CONDENSATION	2019/06/28
2019/05274	PERFORMING A CHANGE OF PRIMARY NODE IN A DISTRIBUTED SYSTEM	2019/08/08
2019/05341	ANTIBODIES SPECIFICALLY BINDING TO HUMAN IL-1R7	2019/08/13
2019/05686	PRESSURE REGULATOR VALVE	2019/08/28
2019/05864	COMPOSITION FOR SKIN AGING MEASUREMENT, PREVENTION, OR ALLEVIATION, USING HAPLN1	2019/09/05
2019/06172	BOLTLESS RAIL BRACE	2019/09/18
2019/06399	SYSTEM AND METHOD FOR CONTINUOUS CASTING	2019/09/27
2019/06481	POLYOLEFIN COMPOSITION WITH IMPROVED SURFACE APPEARANCE	2019/10/02
2019/06817	METHODS OF TREATMENT USING A JAK INHIBITOR COMPOUND	2019/10/16

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2019/07282	METHODS AND APPARATUS FOR HYPERSECURE LAST MILE COMMUNICATION	2019/11/01
2019/07309	TAGGED CONTAINER TRACKING	2019/11/04
2019/07541	ALUMINIUM FRAME ARRANGEMENT	2019/11/14
2019/07610	CRYSTALLINE FORMS OF 5-BROMO-2,6-DI(1 H-PYRAZOL-1-YL)PYRIMIDIN-4-AMINE AND NEW SALTS	2019/11/18
2019/07733	SELF-GLAZING CERAMICS	2019/11/22
2019/07770	POLY(ETHYLENE SUCCINATE)-L-PROLINE POLYMER COMPOSITE	2019/11/25
2019/08019	A BUILDING AND A METHOD OF MANUFACTURING SUCH A BUILDING	2019/12/03
2019/08422	METHOD OF WELDING FERRETIC STAINLESS STEELS	2019/12/17
2019/08454	SOLID PREPARATION OF CARIPRAZINE FOR ORAL ADMINISTRATION	2019/12/18
2019/08539	METHOD OF TREATMENT OF CANCER	2019/12/20
2020/00014	PHARMACEUTICAL COMPOSITIONS	2020/01/02
2020/00020	CONCEPT FOR GENERATING AN ENHANCED SOUND FIELD DESCRIPTION OR A MODIFIED SOUND FIELD DESCRIPTION USING A MULTI-POINT SOUND FIELD DESCRIPTION	2020/01/02
2020/00023	CONCEPT FOR GENERATING AN ENHANCED SOUND-FIELD DESCRIPTION OR A MODIFIED SOUND FIELD DESCRIPTION USING A MULTI-LAYER DESCRIPTION	2020/01/02
2020/00045	MAXIMISE THE VALUE OF A SULPHIDE ORE RESOURCE THROUGH SEQUENTIAL WASTE REJECTION	2017/06/30
2020/00071	BUILDING SYSTEM	2020/01/06
2020/00079	COTTON LINT PERCENTAGE MOLECULAR MARKER AND APPLICATION THEREOF	2020/01/07
2020/00081	NANOFIBER AGGREGATE FOR FAT ADSORPTION, METHOD FOR ESTIMATING FAT ADSORPTION RATE OF NANOFIBER AGGREGATE FOR FAT ADSORPTION, AND METHOD FOR ESTIMATING VOLUME OF NANOFIBER AGGREGATE FOR FAT ADSORPTION FOLLOWING FAT	2020/01/07

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	ADSORPTION	
2020/00082	FIBER AGGREGATE FOR SOUND INSULATION, SOUND ABSORBING/INSULATING MATERIAL, AND SOUND ABSORBING/INSULATING MATERIAL FOR VEHICLE	2020/01/07
2020/00143	COPPER SMELTING SLAG COMPREHENSIVE RECOVERY METHOD AND DEVICE	2020/01/09
2020/00272	CHANNEL STATE INFORMATION SENDING METHOD, CHANNEL STATE INFORMATION RECEIVING METHOD, AND DEVICE	2020/01/15
2020/00306	A CAPSULE AND SYSTEM FOR PREPARING A BEVERAGE FROM SUCH CAPSULE WITH A SEAL MEMBER	2020/01/16
2020/00327	COMPOSITIONS FOR ENHANCING BIOAVAILABILITY OF PHARMACEUTICALS, SUPPLEMENTS AND INGESTED SUBSTANCES	2020/01/17
2020/00430	SYSTEM AND METHOD FOR PROVIDING DRIVE SHAFT BRAKING FOR IRRIGATION MACHINES	2020/01/22
2020/00434	DOWNLINK ASSIGNMENT WITH DIFFERENT PROCESSING TIMES	2018/08/07
2020/00478	METHODS OF TREATMENT OF DISEASES IN WHICH IL-13 ACTIVITY IS DETRIMENTAL USING ANTI-IL-13 ANTIBODIES	2020/01/24
2020/00495	METHOD FOR CLEANING AN EXTRUSION DIE	2020/01/24
2020/00531	CONTROL MECHANISM FOR SELF-CLEANING FILTRATION SYSTEMS	2020/01/27
2020/00558	PREVENTION AND/OR TREATMENT OF NEURODEGENERATIVE DISEASE	2020/01/28
2020/00572	VEHICLE LOCKING MECHANISM MONITORING DEVICE	2020/01/29
2020/00584	PNEUMATIC CUSHIONS FOR SOFT RECEPTION OF HARVESTED FRUIT ON MECHANIZED FRUIT HARVESTING DEVICES	2020/01/29
2020/00668	EMULSIFIER SYSTEM, PERSONAL CARE PRODUCT, METHOD AND USE	2020/01/31
2020/00786	ROTARY-WING UNMANNED AERIAL VEHICLE	2020/01/24
2020/00787	SAMPLE COLLECTION SYSTEM AND PARTS THEREOF	2020/02/06

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2020/00813	METHOD FOR DETECTING A MICROORGANISM IN A SAMPLE	2018/08/08
2020/01013	BLOOD PUMP DEVICE	2020/02/18
2020/01041	MITORIBOSCINS: MITOCHONDRIAL-BASED THERAPEUTICS TARGETING CANCER CELLS, BACTERIA, AND PATHOGENIC YEAST	2018/03/14
2020/01079	SEALING ARRANGEMENT	2020/02/20
2020/01163	FENCE	2020/02/25
2020/01168	DEVICE CAPABLE OF AUTOMATICALLY LIGHTING OR HEATING CIGARETTE	2020/02/25
2020/01244	ACID TREATMENT FOR FERTILIZERS TO INCREASE ZINC SOLUBILITY AND AVAILABILITY	2016/08/12
2020/01245	IMPROVED ZONING CONFIGURATION IN A MESH NETWORK	2020/02/27
2020/01246	PLANT PRODUCT INFUSED WITH OIL DERIVED FROM PLANTS OF THE CANNABIS GENUS AND METHOD OF INFUSION	2020/02/27
2020/01287	METHOD AND APPARATUS FOR DETERMINING FREQUENCY HOPPING OF CHANNEL, AND COMPUTER STORAGE MEDIUM	2020/02/28
2020/01349	ENERGY ABSORBING DEVICE	2020/03/03
2020/01373	PENTAAZA MACROCYCLIC RING COMPLEXES POSSESSING ORAL BIOAVAILABILITY	2016/08/11
2020/01388	BAGGAGE DELIVERY SYSTEM AND METHOD	2020/03/04
2020/01535	A METHOD FOR THE MANUFACTURE OF A COATED STEEL SHEET	2020/03/11
2020/01536	METHOD FOR THE TREATMENT OF WASTEWATERS	2020/03/11
2020/01544	MANUFACTURING OF PHARMACEUTICAL COMPOSITIONS	2018/09/17
2020/01548	ANTI-TAU ANTIBODIES AND USES THEREOF	2020/03/11
2020/01551	TENSIONING SYSTEM FOR VIBRATING MEMBRANES	2020/03/11
2020/01726	APPARATUS, METHOD AND COMPUTER PROGRAM FOR ENCODING, DECODING, SCENE PROCESSING AND OTHER PROCEDURES RELATED TO DIRAC BASED SPATIAL AUDIO CODING	2020/03/18
2020/01738	INSTALLATION FOR MANUFACTURING A VEHICLE,	2020/03/19

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	NOTABLY A RAILWAY VEHICLE, CONTAINER ASSEMBLY AND METHOD FOR MOUNTING SUCH A CONTAINER ASSEMBLY FOR OBTAINING SAID INSTALLATION	
2020/01739	FIBRE OPTIC SPLICE CLOSURE AND A METHOD OF ENCLOSING FIBRE OPTIC CABLES	2020/03/19
2020/01741	INHALER AND MESH FOR AN INHALER	2020/03/19
2020/01803	CLIP FOR SECURING SHEET METAL ROOFING	2020/03/23
2020/01811	A METHOD FOR PREPARING WASTE MANGOSTEEN SHELL GRAPHENE	2020/03/23
2020/01884	RAR SELECTIVE AGONISTS IN COMBINATION WITH IMMUNE MODULATORS FOR CANCER IMMUNOTHERAPY	2020/03/24
2020/01894	PAPER SHEET CIRCULATION DEVICE AND CIRCULATION-TYPE PAPER SHEET HANDLING DEVICE	2020/03/24
2020/01915	AN AUDIO VISUAL DISPLAY AND METHOD OF ADVERTISING THEREWITH	2020/03/24
2020/01988	LIQUID PERSONAL CLEANSING COMPOSITION	2017/12/13
2020/02005	AN IMPACT ABSORBING IDLER ROLLER	2020/05/04
2020/02014	A SYSTEM OPERABLE TO DIMINISH THE NUMBER OF PATHOGENS IN A PUBLIC SPACE, AND A METHOD OF PROVIDING A REDUCTION OF PATHOGENS IN A PUBLIC SPACE	2020/05/04
2020/02049	TREATMENT OF FOCAL SEGMENTAL GLOMERULOSCLEROSIS WITH CCR2 ANTAGONISTS	2020/05/04
2020/02053	INSECT TRAPPING	2020/05/04
2020/02060	SLOPE STABILITY VISUALISATION	2020/05/04
2020/02061	METHOD FOR FILLING A THIN-BODY FLEXIBLE BAG PROVIDED WITH A SPOUT	2020/05/04
2020/02063	METHODS, SYSTEMS AND DEVICES FOR DETECTING INFLAMMATION	2020/05/04
2020/02065	A METHOD FOR TEMPERATURE REGULATION WITH AN AIR-CONDITIONING FAN BY WATER DIVERSION AND AN AIR-CONDITIONING FAN FOR REALIZING THE METHOD	2020/05/04

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2020/02069	NOVEL MEK-INHIBITOR FOR THE TREATMENT OF VIRAL AND BACTERIAL INFECTIONS	2020/05/04
2020/02070	METHOD OF DETECTING INFLAMMATION	2020/05/04
2020/02073	LACTATE POWDER AND METHOD FOR THE PREPARATION THEREOF	2020/05/04
2020/02077	APPARATUS AND METHOD FOR ENCODING AND DECODING AN AUDIO SIGNAL USING DOWNSAMPLING OR INTERPOLATION OF SCALE PARAMETERS	2020/05/04
2020/02085	A MULTI-FUNCTIONAL ADJUSTABLE FURNITURE ARTICLE	2020/05/04
2020/02088	ACETATE POWDER AND METHOD FOR THE PREPARATION THEREOF	2020/05/04
2020/02100	PALLET SYSTEM AS WELL AS MEASURING COMPONENT	2020/05/04
2020/02102	ELECTROSURGICAL APPARATUS	2020/05/04
2020/02357	SYSTEM AND METHOD FOR MACHINE LEARNING-DRIVEN OBJECT DETECTION	2020/05/04
2020/02394	RAILWAY TRUCK WITH ELASTOMERIC SUSPENSION	2020/05/04
2020/02499	OPTICAL BRIGHTENER FOR WHITENING PAPER	2020/05/06
2020/02520	TEMPORAL NOISE SHAPING	2020/05/07
2020/02521	SELECTING PITCH LAG	2020/05/07
2020/02616	ELECTRICAL POWER AND OPTICAL DISTRIBUTION BOX FOR FIBER TO THE ANTENNA SYSTEMS	2020/05/11
2020/02673	AUTOMATED CONTROL OF HEAT EXCHANGER OPERATION	2020/05/12
2020/02717	MULTI-METALLIC CATALYST DOPED WITH PHOSPHORUS AND YTTERBIUM	2020/05/13
2020/02720	MULTI-METALLIC CATALYST DOPED WITH PHOSPHORUS AND YTTRIUM	2020/05/13
2020/02770	IMIDAZO-PYRIDINE COMPOUNDS AS PAD INHIBITORS	2018/10/16
2020/02909	NOVEL PHOSPHATIC FERTILIZERS BASED ON ALKANOLAMINE SALTS OF PHOSPHORIC ACID	2020/05/19
2020/02925	METHOD OF TOMOGRAPHIC RADIOGRAPHY	2020/05/19
2020/02944	TRANSDUCER ARRANGEMENT	2020/05/20
2020/02948	FREIGHT IDENTIFICATION CODE, ITEMS DISPLAYING SAME, AND ROBOT HAND USED FOR SAME	2018/11/06
2020/02991	METHODS AND COMPOSITIONS	2020/05/21

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	FOR ASSESSING AND TREATING INTRAOCULAR DISEASES AND DISORDERS	
2020/02992	MATURATION OF MUCOSAL DEFENSE AND GUT/LUNG FUNCTION IN THE PRETERM INFANT	2020/05/21
2020/03013	METHOD AND SYSTEM FOR CONTROLLING GRID-CONNECTED POWER CONVERTER	2020/05/12
2020/03025	INLINE, MULTI-PORT BALL VALVE	2020/05/22
2020/03103	SUSTAINABLE OPERATION METHOD BASED ON STS PREPAYMENT SYSTEM	2020/05/26
2020/03110	SUPPORT FOR THE PRESERVATION OF BIOLOGICAL SAMPLES AND CORRELATED METHOD OF PRODUCTION	2018/11/29
2020/03124	OBJECT RECOGNITION USING A CONVOLUTIONAL NEURAL NETWORK TRAINED BY PRINCIPAL COMPONENT ANALYSIS AND REPEATED SPECTRAL CLUSTERING	2020/05/26
2020/03136	METHOD FOR TREATING LIGNOCELLULOSIC BIOMASS	2020/05/27
2020/03177	A SYSTEM AND METHOD FOR IMPLEMENTING A COMPUTER NETWORK	2020/05/28
2020/03199	LINE CONNECTOR	2020/05/29
2020/03212	SYSTEM AND METHOD FOR INSPECTING A RAIL USING MACHINE LEARNING	2020/05/28
2020/03440	METHODS FOR ENHANCED REMOVAL OF IMPURITIES DURING PROTEIN A CHROMATOGRAPHY	2020/06/09
2020/03445	BISPECIFIC CD 16-BINDING MOLECULES AND THEIR USE IN THE TREATMENT OF DISEASE	2020/06/09
2020/03477	METHOD FOR SCREENSHOT AND RELATED PRODUCTS	2018/10/30
2020/03527	AUTOMATICALLY RESETTABLE SMOKING SET	2020/06/12
2020/03551	MEAL SERVICE MANAGEMENT SYSTEM AND OPERATING METHOD THEREFOR	2020/06/12
2020/03618	IMPROVEMENTS IN OR RELATING TO AMPLIFICATION OF NUCLEIC ACIDS	2020/06/17
2020/03620	ELIMINATION OF SO ₂ AND CO ₂ FROM A GAS	2020/06/17
2020/03701	METHODS FOR THE	2020/06/19

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	QUANTITATION OF POLYPEPTIDES	
2020/03704	METHOD AND APPARATUS FOR REMOVING PARTICULATES FROM A FLUID	2020/06/19
2020/03763	ENVIRONMENTALLY-FRIENDLY COMPOSITIONS AND METHODS FOR EXTRACTING MINERALS AND METALS FROM ORE	2020/06/22
2020/03876	PLATFORM BASED DRILL CAPABLE OF NEGATIVE ANGLE DRILLING	2018/11/12
2020/03892	ANTIBODIES TO T CELL IMMUNORECEPTOR WITH IG AND ITIM DOMAINS (TIGIT) AND USES THEREOF	2020/06/24
2020/03908	ACID BALANCE IN A CHLORIDE HEAP LEACH	2020/06/26
2020/03938	BATTERY SWAPPING STATION AND CONTROL METHOD THEREFOR	2020/06/29
2020/03939	SUBSTITUTED BISPHENYL BUTANOIC ESTER DERIVATIVES AS NEP INHIBITORS	2020/06/29
2020/03941	IMPLANTABLE ATRIAL SEPTAL DEFECT OCCLUSION DEVICE WITH WOVEN CENTRAL SECTION ON LEFT ATRIAL FLANGE	2020/06/29
2020/03984	HIGH-FREQUENCY SOMATIC EMBRYO REGENERATION GROWTH MEDIUM WITHOUT GERMPLASM GENOTYPE RESTRICTION AND APPLICATION THEREOF	2020/06/30
2020/04257	DETECTING MICROSCOPIC OBJECTS IN FLUIDS	2020/07/10
2020/04279	AUTOMATED METHOD AND SYSTEM FOR PRODUCING AN INFLATABLE PRODUCT	2020/07/13
2020/04347	DETERMINATION OF ADULTERATED DIESEL FUEL USING AN ENVIRONMENTALLY SENSITIVE PHOTOLUMINESCENT MOLECULAR PROBE	2020/07/15
2020/04471	AUDIO SCENE ENCODER, AUDIO SCENE DECODER AND RELATED METHODS USING HYBRID ENCODER/DECODER SPATIAL ANALYSIS	2020/07/20
2020/04502	FLOATING LIQUID INTAKE	2020/07/21
2020/04548	NITROGENATED HETEROCYCLIC AMIDE COMPOUND, AND USE THEREOF FOR MEDICAL PURPOSES	2019/01/30
2020/04561	SYSTEM, METHOD, AND	2020/07/23

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	COMPUTER PROGRAM FOR TRANSMITTING FACE MODELS BASED ON FACE DATA POINTS	
2020/04639	NOVEL METHODS FOR REARING AND CONTROLLED RELEASE OF BIOLOGICAL CONTROL AGENTS	2019/03/05
2020/04680	METHOD AND SYSTEM FOR ESTIMATING CROP COEFFICIENT AND EVAPOTRANSPIRATION OF CROPS BASED ON REMOTE SENSING	2020/07/29
2020/04806	BOTTLE ASSEMBLY	2020/08/03
2020/04831	PROCESS FOR RECOVERING VANADIUM IN THE FORM OF IRON VANADATE FROM A GASIFIER SLAG	2020/08/04
2020/04841	MICROMIXER	2020/08/05
2020/04856	TERMINATION ARRANGEMENT FOR AN OVERHEAD ELECTRICAL CABLE	2020/08/05
2020/04862	IMPROVEMENTS IN OR RELATING TO ORGANIC COMPOUNDS	2020/08/05
2020/05285	METHOD FOR PRODUCING A WELDED METAL BLANK AND THUS OBTAINED WELDED METAL BLANK	2020/08/25
2020/05417	HAND OPERATED PRESS	2020/08/31
2020/05427	TRIGGER MECHANISM FOR FIREARM	2020/08/31
2020/05455	AN ULTRASONIC GUIDED WAVE DAMAGE DETECTION SYSTEM CAPABLE OF ADJUSTING CONTACT PRESSURE	2020/09/01
2020/05475	UNDERWATER MINING DEVICE AND METHOD FOR MINING	2020/09/02
2020/05584	HAIR CARE ACTIVE AGENT	2020/09/09
2020/05594	METHOD AND APPARATUS FOR PROCESSING LEGUMES	2020/09/09
2020/05595	EXTRUDER FOR THE EXTRUSION OF FOOD OR FEED	2020/09/09
2020/05856	TREATMENT OF INFECTIONS	2020/09/22
2020/06008	PSMA-TARGETED RADIOPHARMACEUTICAL FOR DIAGNOSING AND TREATING PROSTATE CANCER	2020/09/29
2020/06010	IMPROVED DYNAMIZATION DEVICE FOR ORTHOPEDIC FIXATION DEVICE	2020/09/29
2020/06057	HUMANIZED BCMA ANTIBODY AND BCMA-CAR-T CELLS	2020/09/30
2020/06112	TROLLEY MONITORING SYSTEM	2020/10/02
2020/06116	METHOD FOR PRODUCING HIGHLY VIABLE DRIED MICROBIAL CELLS	2020/10/02
2020/06186	THERMOLABILE PROTEINASES	2020/10/06

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2020/06191	SPLICE JOINT OF CRANE MAIN GIRDER	2020/10/06
2020/06207	BHK21 CELL POPULATION WITH RECONSTRUCTED INNATE IMMUNE SYSTEM, AND USE OF CELL CLONES THEREOF IN VIRUS PROLIFERATION	2020/10/07
2020/06222	APPARATUS FOR ASSESSING SKIN REACTIVITY TO AN IMPLANT MATERIAL	2019/04/08
2020/06339	SYSTEM, DEVICE AND METHODS FOR EXCHANGE OF MESSAGE/FILE OVERTLY AND COVERTLY AND CREATION OF DYNAMIC SUBGROUPS	2020/10/13
2020/06342	MECHANICALLY EXPANDABLE HEART VALVE WITH LEAFLET CLAMPS	2020/10/13
2020/06362	SHIP DRIVE SYSTEM AND RETROFITTING METHOD FOR A SHIP DRIVE SYSTEM	2020/10/13
2020/06375	A METHOD OF CARBONIZATE PURIFICATION	2020/10/14
2020/06396	HAND WASH SYSTEM	2020/10/15
2020/06438	SUPERCritical FLUID CLEANING OF BANKNOTES AND SECURE DOCUMENTS UTILIZING OZONE	2020/10/16
2020/06834	A COMPUTER IMPLEMENTED SYSTEM AND METHOD OF DETECTING EXERCISE DEVICE FRAUD	2020/11/02
2020/06841	MULTILAYERED NONWOVEN FABRICS AND METHOD OF MAKING THE SAME	2020/11/02
2020/06853	DEVICE FOR SUPPLYING THERAPEUTIC GAS, PARTICULARLY NO OR N2O, TO A PATIENT	2020/11/03
2020/06874	NON-INVASIVE DETECTION OF INGESTED MEDICATIONS	2020/11/04
2020/06880	ENGINEERED CASCADE COMPONENTS AND CASCADE COMPLEXES	2020/11/04
2020/06901	INSULATOR AND BUSHING	2020/11/05
2020/06918	ASSET TRANSACTION SYSTEM AND METHOD	2020/08/17
2020/06925	HOPPER COUPLER	2020/11/06
2020/06927	SYSTEMS AND METHODS FOR PREDICTING ASPECTS OF AN UNKNOWN EVENT	2020/11/06
2020/06966	SECTIONED POCKETED SPRING ASSEMBLY AND METHOD OF	2020/11/09

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	MAKING SAME	
2020/06996	TRACK PART MADE OF A HYPEREUTECTOID STEEL	2020/11/10
2020/07004	A SAFE ASSEMBLY FOR TRANSFERRING VALUABLES FROM ONE PARTY TO ANOTHER	2020/11/11
2020/07006	METHOD OF CORRECTING STEP JOINTS IN RAILS	2020/11/11
2020/07011	VIEWING OPTIC WITH WIND DIRECTION CAPTURE AND METHOD OF USING THE SAME	2020/11/11
2020/07012	X-RAY FLUORESCENCE ANALYZER SYSTEM AND A METHOD FOR PERFORMING X-RAY FLUORESCENCE ANALYSIS OF AN ELEMENT OF INTEREST IN SLURRY	2020/11/11
2020/07013	X-RAY FLUORESCENCE ANALYZER, AND A METHOD FOR PERFORMING X-RAY FLUORESCENCE ANALYSIS	2020/11/11
2020/07018	X-RAY FLUORESCENCE ANALYSER, AND A METHOD FOR PERFORMING X-RAY FLUORESCENCE ANALYSIS	2020/11/11
2020/07019	 BIOCOMPATIBLE SILOXANES FOR FORMULATION OF MICROORGANISMS	2020/11/11
2020/07035	STABILIZED CHEMICAL COMPOSITION	2020/11/11
2020/07037	CRYSTAL FORM OF C-MET INHIBITOR AND SALT FORM THEREOF AND PREPARATION METHOD THEREFOR	2019/04/26
2020/07056	OPTIMIZED GP41-BINDING MOLECULES AND USES THEREOF	2020/11/12
2020/07082	CONTACT CARRIER FOR ELECTRICAL PLUG CONNECTORS AND PLUG CONNECTORS THEREFOR	2020/11/13
2020/07117	A CONTROLLER	2020/11/16
2020/07129	AN APPARATUS TO MAINTAIN TEMPERATURE OF AN OBJECT	2020/11/16
2020/07131	CABLE WITH A FABRIC SLEEVE AND ITS METHOD OF MANUFACTURE	2020/11/16
2020/07133	ANALYSIS AND PRESENTATION OF AGRICULTURAL DATA	2020/11/16
2020/07155	BODY FOR A TRUCK AND A TRUCK	2020/11/17
2020/07261	METHOD FOR DETERMINING INTERNAL STRESS OF SOLID-CUT-AND-FILL MATERIAL	2019/04/18
2020/07305	CLAMPING MECHANISM AND	2020/11/24

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	ANNEALING DEVICE	
2020/07339	SELF-PROPELLED OPERATING MACHINE EQUIPPED WITH AN IMPROVED CABIN	2020/11/25
2020/07340	ROTARY TOWER WITH BALLAST	2020/11/25
2020/07347	ADDITION SALT OF S1P1 RECEPTOR AGONIST AND CRYSTAL FORM THEREOF, AND PHARMACEUTICAL COMPOSITION	2020/11/25
2020/07436	PYLON	2020/11/30
2020/07461	NON-LINEAR MEDIA SEGMENT CAPTURE AND EDIT PLATFORM	2020/11/30
2020/07499	BLOCK LOCK FOR ROUND STEEL CHAINS FOR MINING	2020/11/26
2020/07529	CONDITIONER CONTAINING PHOSPHORYLATED RESIDUES FOR ALKALINE SOIL AND PREPARATION METHOD AND USE THEREOF	2020/12/03
2020/07535	VACUUM DEPOSITION FACILITY AND METHOD FOR COATING A SUBSTRATE	2020/12/03
2020/07564	OLIGONUCLEOTIDES CONJUGATES COMPRISING 7'-5'-ALPHA-ANOMERIC-BICYCLIC SUGAR NUCLEOSIDES	2020/12/04
2020/07580	DUST EXTRACTION DEVICE	2020/12/04
2020/07590	MISSILE WITH PYROTECHNIC UNLOCKING	2020/12/07
2020/07602	APPLICATOR AND SYSTEM FOR PHARMACEUTICAL PREPARATION AND METHOD OF USE	2020/12/07
2020/07639	METHODS FOR THE PRODUCTION OF FINE METAL POWDERS FROM METAL COMPOUNDS	2020/12/08
2020/07640	METHOD AND APPARATUS FOR MANUFACTURE OF DRY POWDERS	2020/12/08
2020/07680	LAWN MAINTENANCE MACHINE	2020/12/09
2020/07701	TRIESTERS OF CYCLOHEXANETRIPROPIONIC ACID	2020/12/10
2020/07722	DISPENSING MONITORING SYSTEM & METHOD	2020/12/10
2020/07735	OPERATING MACHINE WITH IMPROVED STABILISERS	2020/12/11
2020/07738	DETECTING AND MANAGING AUDIENCE ENGAGEMENT	2020/12/11
2020/07740	METHOD AND SYSTEM FOR IDENTIFYING AT LEAST A PAIR OF ENTITIES FOR A MEETING	2020/12/11
2020/07741	DEVICE, SYSTEM AND METHOD FOR FAULT DETECTION	2020/12/11

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2020/07754	PROCESS AND EQUIPMENT ASSEMBLY FOR BENEFICIATION OF COAL DISCARDS	2020/12/11
2020/07766	COMPOSITIONS AND METHODS FOR CELLULAR PHENOTYPE ASSESSMENT OF A SAMPLE USING CONFINED VOLUME ARRAYS	2020/12/11
2020/07774	SEAL ASSEMBLY	2020/12/14
2020/07789	THE PROMOTION OF FUNGAL AND MICROBIAL PROCESSES	2020/12/14
2020/07803	ALKOXYCARBONYLATION OF TRIVINYLCYCLOHEXANE	2020/12/15
2020/07812	METHOD FOR PREPARING PRECURSOR OF RECOMBINANT HUMAN INSULIN OR ANALOGUE THEREOF	2020/12/15
2020/07822	IMMUNODOMINANT PROTEINS AND FRAGMENTS IN MULTIPLE SCLEROSIS	2020/12/15
2020/07823	A COMMUNICATION APPARATUS	2020/12/15
2020/07824	A BAFFLE ASSEMBLY FOR A REFRIGERATION CONTAINER	2020/12/15
2020/07834	COMPOSITIONS COMPRISING AMINO ACIDS FOR USE IN THE PREVENTION AND TREATMENT OF LIVER DISEASES	2020/12/15
2020/07861	DEVICE FOR APPLYING POLLINATING SOLUTION BASED ON DUAL CONTROL OF POSITION AND FLOW RATE AND METHOD FOR ADJUSTING FRUIT SET RATE OF FRUIT TREE	2020/12/15
2020/07898	FLAP CLOSURE	2020/12/17
2020/07909	BIOMARKERS FOR DIAGNOSING TUBERCULOUS MENINGITIS	2020/12/17
2020/07917	CONTROLLING CONFERENCE CALL DIAL-INS AND HOLDING QUEUES	2020/12/18
2020/07938	METHOD, APPARATUS AND SYSTEM FOR MONITORING A CONDITION ASSOCIATED WITH OPERATING HEAVY EQUIPMENT SUCH AS A MINING SHOVEL OR EXCAVATOR	2020/12/18
2020/07944	PREPARATION OF RAW MATERIALS FOR GLASS FURNACE	2020/12/18
2020/07947	TOE JOINT PROSTHESIS AND MANUFACTURING METHOD THEREFOR	2020/12/18
2020/07949	BONE TRABECULA STRUCTURE AND PROSTHESIS USING SAME AND MANUFACTURING METHOD THEREFOR	2020/12/18

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2020/07956	COMPOUNDS	2020/12/18
2020/07968	IMMEDIATE RELEASE SOLID DOSAGE FORM COMPRISING TERIFLUNOMIDE AND METHOD OF PREPARATION THEREOF	2020/12/21
2020/07979	METHOD FOR INCREASING THE METERING PRECISION OF MICROFLUIDIC PUMPS OR VALVES AND WELDING DEVICE AND TENSIONING DEVICE FOR CARRYING OUT THE METHOD	2020/12/21
2020/07986	OXADIAZOLES AS AGONISTS OF THE MUSCARINIC M1 AND/OR M4 RECEPTOR	2020/12/21
2020/08008	A COMPUTERISED METHOD AND SYSTEM FOR STUDENT ASSESSMENT	2020/12/22
2020/08012	PRESS MACHINE WITH FEEDING DEVICE	2020/12/22
2020/08029	OPTIMIZED BIOPROCESSING METHOD	2020/12/22
2020/08034	IVOSIDENIB FORMS AND PHARMACEUTICAL COMPOSITIONS	2020/12/22
2020/08073	GRINDING SYSTEM FOR ELIMINATING CRACK SOURCES OF INNER TAPERED BORE OF MOTOR ROTATING SHAFT AND GRINDING METHOD	2020/12/23
2020/08096	METHOD FOR PRODUCING PRESSED PRODUCTS AND ASSEMBLY FOR PRODUCING PRESSED PRODUCTS	2020/12/22
2021/00010	A CATALYST COMPOSITION FOR OXIDATIVE DEHYDROGENATION OF ALKANE	2021/01/04
2021/00026	COMPLEX FOR ENHANCING IMMUNE RESPONSE	2021/01/04
2021/00053	MERGE MODE-BASED INTER-PREDICTION METHOD AND APPARATUS	2021/01/05
2021/00056	HANDHELD AESTHESIOMETER	2021/01/05
2021/00092	MODIFIED CAS9 PROTEIN AND USE THEREOF	2019/06/07
2021/00097	ELECTRIC LOADING MULTIFUNCTIONAL TEST BENCH FOR POWER-DIVIDING HYDRAULIC-MECHANICAL COMPOSITE TRANSMISSION SYSTEM AND APPLICATION THEREOF	2019/07/05
2021/00129	WHEEL TRANSMISSION MECHANISM AND ELECTRIC VEHICLE COMPRISING SAME	2021/01/08

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2021/00160	OPTICALLY BRIGHTENED LATEXES	2021/01/11
2021/00165	A TELEMATICS SYSTEM FOR A VEHICLE	2021/01/11
2021/00214	REWARD SYSTEMS AND METHODS	2021/01/13
2021/00288	SILVER ION BACTERIOSTATIC HAND SANITIZER AND PREPARATION METHOD AND APPLICATION THEREOF	2021/01/15
2021/00298	CREST GATE	2021/01/15
2021/00317	METHOD, SYSTEM AND APPARATUS FOR EXTRACTING HEAT ENERGY FROM GEOTHERMAL BRINY FLUID	2021/01/15
2021/00318	MULTILAYER BALLISTIC PROTECTION PANEL	2021/01/15
2021/00363	EASY-TO-TEAR FLEXIBLE PACKAGING SUBSTRATE	2021/01/18
2021/00503	METHOD FOR SPATIOTEMPORAL ESTIMATION AND PREDICTION OF PM2.5 CONCENTRATION DISTRIBUTION	2021/01/25
2021/00543	A SEPARATION APPARATUS	2021/01/26
2021/00617	ATM SELF-BALANCING SYSTEM AND METHOD	2021/01/28
2021/00622	BLAST HOLE MEASUREMENT AND LOGGING	2021/01/28
2021/00635	PROPULSION DEVICE WITH OUTBOARD WATERJET FOR MARINE VEHICLES	2021/01/28
2021/00728	WIRELESS DETONATING SYSTEM	2021/02/02
2021/00757	A PRESS HARDENING METHOD	2021/02/03
2021/00778	AN IMAGE AND VIDEO PROCESSING METHOD IN ONLINE TEACHING	2021/02/04
2021/00813	IMIDAZOTETRAZINE COMPOUNDS	2021/02/05
2021/00835	LOCK AND GUIDE ASSEMBLY	2021/02/08
2021/00842	A PLANT GROWTH SYSTEM	2021/02/08
2021/00873	METHOD AND SYSTEM FOR FACILITATING PROPERTY TRANSACTIONS	2021/02/09
2021/00923	CRYSTAL FORM OF LANOSTEROL PRODRUG COMPOUND AND APPLICATION THEREOF	2019/07/25
2021/00931	TETRAHYDROPYRIDOPYRIMIDINE DERIVATIVES AS AHR MODULATORS	2021/02/10
2021/01007	ANTICORROSIVE AGENT FOR CAVITY PRESERVATION, AND USE THEREOF	2021/02/15
2021/01040	PORTABLE WATER RESERVOIR	2021/02/16
2021/01067	CITRATE PERHYDRATES AND USES THEREOF	2021/02/16

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2021/01084	RHODOCOCCLUS RHODOCHROUS STRAIN AND USE THEREOF IN THE PRODUCTION OF ACRYLIC ACID	2021/02/17
2021/01135	NETTING MANUFACTURE	2021/02/19
2021/01161	ROCK DRILL EXTENSION	2021/02/19
2021/01166	AUTOMATIC ANALYSIS DEVICE	2021/02/22
2021/01188	GRIP ASSIST APPARATUS WITH INSERT	2021/02/22
2021/01226	EXPANDABLE SLEEVED STENT AND METHOD OF MAKING SUCH STENT	2021/02/23
2021/01232	HIGH-WATER-RESISTANT POLYAMIDE 6 COMPOSITE MATERIAL AND PREPARATION METHOD THEREOF	2021/02/23
2021/01243	LOADING SYSTEM AND TRANSPORTING WHEELED VEHICLES ON RAILWAY NETWORK	2021/02/24
2021/01279	A PROCESS FOR THE PREPARATION OF A MODIFIED RELEASE MULTIPLE UNIT ORAL DOSAGE FORM OF DOXYLAMINE SUCCINATE AND PYRIDOXINE HYDROCHLORIDE	2021/02/25
2021/01316	A FLOAT	2021/02/26
2021/01329	METHOD OF VALIDATING A TEST AND APPARATUS FOR USE IN THE METHOD	2021/02/26
2021/01367	SYSTEM AND METHOD FOR SOLUBILISING IN AN AQUEOUS MEDIUM ELEMENTS CONTAINED IN A SULFIDE ORE CONCENTRATE	2021/02/26
2021/01598	OPTICAL FIBER SENSOR MONITORING SYSTEM FOR ROCK FRACTURE	2021/03/09
2021/01674	OVERFLOW PROTECTION DEVICE FOR VEGETATION GROWING RECYCLED ECO-CONCRETE POURING ON SLOPE	2021/03/12
2021/03919	NANO-PCR DETECTION KIT FOR INFECTIOUS BOVINE RHINOTRACHEITIS VIRUS AND PREPARATION METHOD THEREOF	2021/06/08
2021/04384	ELECTRIC CONTROL PROTECTION TABLE SAW BASED ON CAPACITIVE TOUCH PRINCIPLE AND CONTROL METHOD THEREOF	2021/06/25
2021/04388	EXPERIMENTAL APPARATUS AND METHOD OF ROCK STRATUM MOVEMENT IN MINING NEIGHBORING CONFINED AQUIFERS	2021/06/25

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2021/04588	SLIME WATER PRE-GRADING DESLIMING POOL	2021/07/01
2021/04689	CADMIUM METAL-ORGANIC COMPLEX WITH FLUORESCENCE, PREPARATION METHOD THEREFOR AND APPLICATION THEREOF	2021/07/05
2021/05051	AUTOMOBILE INTELLIGENT ANTI-COLLISION DECELERATION BRAKING AND EMERGENCY BRAKING SYSTEM	2021/07/19
2021/05196	ENDURINGLY ANTIVIRAL AND ANTIBACTERIAL NON-WOVEN FABRIC, AND PREPARATION METHOD AND APPLICATION THEREOF	2021/01/14
2021/05333	COMPUTER-IMPLEMENTED METHOD AND SYSTEM FOR CALCULATING AN INSURANCE PREMIUM	2021/07/28
2021/05475	A PLANT-BASED FUNCTIONAL POLYESTER FILAMENT AND PREPARATION THEREOF	2021/08/02
2021/05526	FIBER COLLECTOR FOR MELT-BLOWN NON-WOVEN CLOTH PRODUCTION LINE	2021/08/03
2021/05550	MANUFACTURING METHOD OF SUPERHARD MATERIAL SURFACE PYRAMID STRUCTURE	2021/08/06
2021/05559	PREPARATION METHOD OF PROTECTIVE COATING FOR IC EQUIPMENT PLASMA ETCHING CHAMBER	2021/08/06
2021/05613	BASE DILUENT FOR PORCINE FROZEN SEMEN AND PREPARATION METHOD AND APPLICATION THEREOF	2021/08/10
2021/05665	A TENSION BOARD FOR STRAINING WIRE NETTING	2021/08/05
2021/05783	METHOD FOR PREPARING POLYOLS AND POLYURETHANE DAMPING FOAMS THEREOF BASED ON CRUDE GLYCERIN	2021/08/13
2021/05824	QUOTA FERTILIZATION METHOD OF CHEMICAL FERTILIZERS TO CROPS	2021/08/16
2021/05825	METHOD FOR IDENTIFYING RESISTANCE OF SUGARCANE TO BACTERIAL DISEASES	2021/08/16
2021/05826	NOVEL EFFICIENT WATER TREATMENT DEVICE	2021/08/16
2021/05827	IMAGE RETRIEVAL METHOD BASED ON MULTIPLE-INSTANCE	2021/08/16

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	LEARNING	
2021/05830	METHOD AND SYSTEM FOR COLLECTING AND REPORTING RARE DISEASE DATA	2021/08/16
2021/05839	A METHOD AND EQUIPMENT FOR MEASURING ABSORPTION COEFFICIENT OF LIQUID	2021/08/16
2021/05859	CRISPR/CAS9 SYSTEM WITHOUT PAM RESTRICTION AND APPLICATION THEREOF	2021/08/16
2021/05861	A NEW ENERGY FUEL PREPARATION PROCESS	2021/08/17
2021/05862	APPLICATION OF DIAGNOSTIC KIT AND MAK16 IN PREPARATION OF REAGENT FOR EARLY DIAGNOSIS OF SYSTEMIC LUPUS ERYTHEMATOSUS	2021/08/17
2021/05863	BRUSH PRESSURE TESTING DEVICE FOR TINY COMPONENTS	2021/08/17
2021/05864	PREPARATION METHOD AND APPLICATION OF RARE EARTH ELEMENT FOR PREPARING IMITATION GEM COLOR-CHANGE GLASS	2021/08/17
2021/05868	METHOD FOR PREPARING GERMINANT VIGNA ANGULARIS AIRFLOW SUPERFINE WHOLE FLOUR RICH IN G-AMINOBUTYRIC ACID THROUGH VACUUM-MSG STRESS COMBINATION	2021/08/17
2021/05869	MULTI-PROCEDURE INTEGRATED AUTOMATIC PRODUCTION LINE FOR HARD ALLOY BLADES UNDER ROBOT CONTROL	2021/08/17
2021/05870	AUTOMATIC TRAY LOADING SYSTEM AND USE METHOD OF THE SAME	2021/08/17
2021/05871	INTELLIGENT PRODUCTION LINE FOR TURNING TOOL BIT CAVITIES AND USE METHOD THEREOF	2021/08/17
2021/05872	A TREAD RUBBER VULCANIZED BY A SEMI-EFFICIENT VULCANIZATION SYSTEM FOR A COMBINE-HARVESTER TIRE	2021/08/17
2021/05875	CUTTER DEVICE FOR ROUGH MACHINING OF PULLEY SLOT AND METHOD	2021/08/17
2021/05916	PADDY FIELD-BASED CRAYFISH BREEDING SYSTEM, CRAYFISH SEEDLING BREEDING METHOD AND APPLICATION THEREOF	2021/08/18
2021/05945	A BORING DEVICE FOR PIPE DIE	2021/08/18

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2021/05971	CARBONATION MACHINE AND A GAS CANISTER FOR A CARBONATION MACHINE	2020/01/01
2021/05972	ADAPTER FOR CANISTER FILLING SYSTEM AND METHOD FOR FILLING A GAS CANISTER	2020/11/16
2021/05987	A METHOD OF GRAFTING GRAPE DOUBLE ROOTSTOCK GREEN BRANCH	2021/08/20
2021/05988	A MULTIFUNCTIONAL BEDSIDE MOVABLE SUPPORT	2021/08/20
2021/05989	HETEROSTRUCTURE NANOCOMPOSITE AND PREPARATION METHOD AND APPLICATION THEREOF	2021/08/20
2021/05990	ANCHORING AGENT STRUCTURE SUITABLE FOR FULL-LENGTH PRESTRESSED ANCHORING OF ANCHOR ROD AND CONSTRUCTION METHOD THEREOF	2021/08/20
2021/05991	DUAL-TARGETING DNA VACCINE OF SPRING VIRAEMIA OF CARP VIRUS AND A PREPARATION METHOD THEREOF	2021/08/20
2021/05992	ADMINISTRATION CARRIER CONTAINING TGF ALPHA-SAPORIN AND PREPARATION METHOD OF ADMINISTRATION CARRIER	2021/08/20
2021/05993	INTELLIGENT DESIGN SYSTEM AND METHOD FOR UNDERGROUND GAS PREVENTION DRILLING IN COAL MINE	2021/08/20
2021/05996	HABITAT SUITABILITY ASSESSMENT OF ARGENTINE SHORTFIN SQUID IN THE SOUTHWEST ATLANTIC OCEAN BY WEIGHT-BASED HABITAT SUITABILITY MODELING APPROACH	2021/08/20
2021/06001	FINANCIAL GLUE SPREADING DEVICE	2021/08/20
2021/06043	A TERMINAL INTELLIGENT CONTROL PLATFORM FOR COMPUTER POWER SUPPLY	2021/08/23
2021/06044	AN APPLICATION METHOD OF VIRTUAL SIMULATOR FOR SIX-AXIS LARGE SECTIONS; CYLINDER SEGMENT DOCKING	2021/08/23
2021/06045	PREPARATION METHOD OF ORGANIC AND INORGANIC FOLIAR FERTILIZER FOR IMPROVING SUGARCANE YIELD AND SUGAR	2021/08/23

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	CONTENT	
2021/06046	A PREPARATION METHOD BASED ON GRAPE SEED NUTRIENT TABLET	2021/08/23
2021/06047	PREPARATION METHOD AND APPLICATION OF CEMENTED FILLER MATERIALS BY USING SUPERFINE TAILINGS	2021/08/23
2021/06049	INTELLIGENT SEED PRODUCTION APPARATUS AND METHOD BASED ON MULTISTAGE SCREENING AND BUD EYE IDENTIFICATION	2021/08/23
2021/06050	A HETEROGENEOUS INTEGRATED MINING INTELLIGENT BASE STATION	2021/08/23
2021/06051	AN INTELLIGENT MONITORING SYSTEM FOR HOISTING ELECTROMECHANICAL MACHINE BASED ON AUDIO FEATURE ANALYSIS	2021/08/23
2021/06052	A SIMPLE ELECTRONIC SLOPE MEASURING INSTRUMENT	2021/08/23
2021/06080	VIDEO-BASED PHASE DIFFERENCE FUZZY INFERENCE DETERMINATION METHOD	2021/08/24
2021/06081	TRAFFIC FLOW OPTIMIZATION CONTROL METHOD BASED ON INTERSECTION GROUP	2021/08/24
2021/06082	CONTROL METHOD AND SYSTEM FOR PREVENTING VEHICLE DETENTION AT THE INTERSECTION	2021/08/24
2021/06083	ULTRASONIC IMPACT VIBRATORY STRESS RELIEF SYSTEM	2021/08/24
2021/06084	FUNCTIONAL ORGANIC FERTILIZER FOR INCREASING YIELD WHILE REMEDYING	2021/08/24
2021/06085	AMINO XANTHATE ESTER SULFIDE ORE COLLECTOR AND PREPARATION METHOD AND APPLICATION THEREOF	2021/08/24
2021/06086	DIRECT-FEED FLAX THRESHER WITH WINNOWER DEVICE	2021/08/24
2021/06087	PREPARATION METHOD FOR FRUIT ULTRAFINE POWDER SOLID BEVERAGE	2021/08/24
2021/06089	AIRCRAFT AND METHOD FOR ACHIEVING VERTICAL TAKE-OFF AND LANDING AND HORIZONTAL FLIGHT BY SEGMENTED TILTING BOTTOM-DRIVEN PLATE WINGS	2021/08/24
2021/06090	A VISCOSE LARGE BIOLOGICAL FIBER CONTAINING ACTIVE	2021/08/24

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	INGREDIENTS OF PROTEA CYNAROIDES, OLIVE, PEPPERMINT AND LAVENDER, AND A METHOD FOR PREPARING THE SAME	
2021/06091	AGRICULTURE DRONE EQUIPPED WITH LIQUID OVERFLOW PREVENTION APPARATUS	2021/08/24
2021/06092	MANUFACTURING METHOD OF HEAT DISSIPATION MATERIAL FOR HEAT ABSORPTION AND HEAT TRANSFER RADIATIVE RECOMBINATION MECHANISM CPU	2021/08/24
2021/06093	MANUFACTURING METHOD OF HONEYCOMB SOLID-LIQUID COMPOSITE HEAT DISSIPATION MATERIAL FOR CPU HEAT DISSIPATION	2021/08/24
2021/06094	MANUFACTURING METHOD OF COPPER-TOURMALINE COMPOSITE HEAT DISSIPATION MATERIAL FOR CPU HEAT DISSIPATION	2021/08/24
2021/06117	METHOD FOR MEASURING CONTENT OF LILIUM BROWNII VAR. VIRIDULUM TOTAL SAPONINS	2021/08/25
2021/06118	PREPARATION METHOD AND APPLICATION OF CONDUCTING POLYMER NANOWIRE BIOSENSOR	2021/08/25
2021/06119	BIOSENSOR, PREPARATION METHOD THEREFOR AND APPLICATION THEREOF	2021/08/25
2021/06120	A WATERPROOF TECHNOLOGY FOR THE EXTERIOR WALLS OF HUIZHOU TRADITIONAL BUILDINGS	2021/08/25
2021/06121	AGRICULTURAL TIRE CROWN RUBBER AND PREPARATION METHOD THEREOF	2021/08/25
2021/06122	A METHOD FOR SEPARATING HIGH-PURITY CAMELLIA SINENSIS FLOWER SAPONIN	2021/08/25
2021/06123	TRADITIONAL HUIZHOU ROOF TILE FORMING TECHNOLOGY	2021/08/25
2021/06124	AN INTEGRATED PLATFORM AND OPERATION PATTERN FOR THE CULTIVATION OF INTERNATIONAL LEGAL TALENTS	2021/08/25
2021/06125	CROSS POLLINATION METHOD FOR MYTILARIA	2021/08/25
2021/06127	PRODUCTION METHOD FOR PREPARING ELECTRONIC GRADE SULFURIC ACID BY UTILIZING NON-FERROUS SMELTING FLUE GAS	2021/08/25
2021/06128	A METHOD FOR SELF-ADAPTIVE	2021/08/25

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	FEEDBACK LEARNING CONTROL OF ROBOT, WITH A CONTROLLER AND ROBOTS	
2021/06140	MULTI-NODE OPTICAL FIBER FOR LONG-DISTANCE LIGHTING, AND MANUFACTURING METHOD THEREOF	2021/08/25
2021/06141	SOFT AND EASY-TO-CLEAN AUTOMOBILE COMPOSITE CENTER CONSOLE COVER WITH POWER GENERATION AND DEVELOPMENT FUNCTIONS, AND MANUFACTURING METHOD THEREOF	2021/08/25
2021/06142	HIGH-ENERGY LIGHT ABSORPTION AND CONVERSION MATERIAL FOR RADIATION PROTECTION IN HIGH-RISK AREAS, AND MANUFACTURING METHOD THEREOF	2021/08/25
2021/06143	HIGH-ENERGY SOLAR PANEL FOR HIGH-ULTRAVIOLET (UV) WILDERNESS, AND MANUFACTURING METHOD THEREOF	2021/08/25
2021/06162	EXTERNAL COOLING TEXTURE TURNING TOOL COMPONENT AND TURNING PROCESS SYSTEM FOR COUPLING NANOFLUID MINIMUM QUANTITY LUBRICANT WITH MICRO-TEXTURE TOOL	2021/08/25
2021/06188	METHOD FOR IMAGE RESTORATION UNDER CAUCHY NOISE AND USE THEREOF	2021/08/26
2021/06200	FLEXIBLE PHOTOVOLTAIC ASSEMBLY AND MANUFACTURING METHOD THEREFOR	2020/02/17
2021/06228	FLANGING MACHINE	2021/08/25
2021/06269	A RAILWAY INSPECTION DEVICE	2021/08/30
2021/06270	THE PREPARATION METHOD FOR ANTIBACTERIAL WATER-ABSORBING PAD FOR PALLET PACKAGE OF CHILLED MEAT AND ITS APPLICATION	2021/08/30
2021/06271	METHOD FOR BREWING APPLE CIDER WITH RED-FLESH APPLES	2021/08/30
2021/06272	THERMAL CONTROL ANTICORROSION, FIREPROOF AND EXPLOSION-PROOF COATING MATERIAL FOR OIL AND GAS STORAGE TANK	2021/08/30
2021/06273	METHOD AND KIT FOR DETECTING RICIN BY EXPONENTIAL	2021/08/30

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	AMPLIFICATION INITIATED BY RELATIVE DNA WALKER BASED ON FROZEN GOLD NANOPROBES	
2021/06274	ECOLOGICAL RESTORATION STRUCTURE AND METHOD FOR RAPID REGREENING OF SIDE SLOPE OF MOUNTAIN WIND FARM	2021/08/30
2021/06275	TRADITIONAL CHINESE MEDICINE PRESCRIPTION FOR IMPROVING ANIMAL SURVIVAL RATE	2021/08/30
2021/06278	A TRANSPLANTING DEVICE FOR SUBMERGED MACROPHYTES	2021/08/30
2021/06279	A METHOD FOR DATA GRANULATION AND INDEX STANDARDIZATION OF SPREADSHEETS	2021/08/30
2021/06280	MAZEF TOXIN-ANTITOXIN SYSTEM	2021/08/30
2021/06320	SWITCHING VALUE ACQUISITION CIRCUIT AND METHOD	2021/08/30
2021/06321	METHOD AND APPARATUS FOR REPAIRING ABNORMAL VALUE OF SAMPLING DATA	2021/08/30
2021/06335	LONG CHAIN ALGAL POLYSACCHARIDE AND METHOD FOR SEPARATION AND PURIFICATION THEREOF	2021/08/31
2021/06364	A CONTROL METHOD AND DEVICE FOR PRECISE POSITIONING OF IRON CORE SILICON STEEL SHEET OF TRANSFORMER	2021/09/01
2021/06365	INTELLIGENT WORK PIECE SORTING DEVICE BY ROBOT	2021/09/01
2021/06366	COMPENSATION AND DEVICE FOR INCONSISTENT CUTTING ACCURACY OF MULTI-STATION MACHINE TOOL	2021/09/01
2021/06367	FEED ADDITIVE CAPABLE OF IMPROVING MEAT FLAVOR AND PREPARATION METHOD THEREOF	2021/09/01
2021/06368	THE RFID LOGISTICS MANAGEMENT SYSTEM	2021/09/01
2021/06371	AN UNDERGROUND HANDLING SYSTEM AND ITS LAYOUT METHOD FOR UNDERGROUND CONTAINER LOGISTICS	2021/09/01
2021/06404	CRUTCH FOR REHABILITATION CARE	2021/09/02
2021/06405	SOIL SALINITY AT YELLOW RIVER DELTA INVERSION METHOD BASED ON LANDSAT 8	2021/09/02
2021/06407	ARTIFICIAL FLOATING ISLAND INTEGRATED WITH WATER	2021/09/02

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	PURIFICATION AND LIGHTING SYSTEMS	
2021/06408	AN INTEGRATED DEVICE FOR EMBRYO CULTURE AND OPERATION	2021/09/02
2021/06409	THORACIC AORTA COVERED STENT WHICH IS CONVENIENT FOR POSITIONING	2021/09/02
2021/06411	MANUAL AND REMOTE CONTROL DUAL-PURPOSE CONTROL SYSTEM AND OPERATION METHOD SUITABLE FOR DISCHARGING AND CONTROLLING PARTICULATE MATERIALS FOR AGRICULTURAL VEHICLE	2021/09/02
2021/06412	NOVEL SPLIT-TYPE SPROCKET SHAFT ASSEMBLY OF HIGH-POWER SCRAPER	2021/09/02
2021/06417	IMPROVED SYSTEM OF MONITORING VIBRATION OF A BLASTING MODEL TEST FOR A JOINTED ROCK MASS AND METHOD	2021/09/02
2021/06445	AUTOMATIC MONITORING DEVICE FOR PEST STICKY BOARD BASED ON MONITORING MOBILE PHONE	2021/09/03
2021/06446	MIXING OXYGENATION DEVICE FOR WATER QUALITY IMPROVEMENT BASED ON SOLAR ENERGY	2021/09/03
2021/06451	PIPE LEAKAGE MONITORING, POSITIONING, AND ALARM SYSTEM	2021/09/03
2021/06455	METHOD FOR DETERMINING QUEBRACHITOL CONTENT BY HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY-MASS SPECTROMETRY	2021/09/03
2021/06458	DOUBLE-LAYER THREE-SECTION GUIDE RAIL PLANAR ROBOT WITH TELESCOPIC ROD	2021/09/03
2021/06459	PROCESS FOR PRODUCING FROZEN PLUM SLICES	2021/09/03
2021/06488	FABRICATED STEEL-CONCRETE COMPOSITE FLOOR SLAB AND AN ASSEMBLY CONNECTION METHOD THEREOF	2021/09/02
2021/06489	COMPOSITE COATING OF TITANIUM ALLOY AND PREPARATION METHOD AND APPLICATION THEREOF	2021/09/02
2021/06499	APPLICATION OF SANGHUANGPORUS SANGHUANG FERMENTATION BROTH	2021/09/06

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	POLYSACCHARIDES IN MEDICAMENTS OF ANTI-AVIAN INFLUENZA VIRUS	
2021/06500	DETACHABLE MOBILE NEGATIVE PRESSURE ISOLATION WARD	2021/09/06
2021/06502	LANE CHANGE RECOGNITION AND PREDICTION METHOD, SYSTEM, EQUIPMENT AND STORAGE MEDIUM FOR EXTRACTING VEHICLE TRACKS USING ROADSIDE LIDAR DATA	2021/09/06
2021/06503	GEOTECHNICAL ENGINEERING SAFETY MONITORING AND WARNING SYSTEM	2021/09/06
2021/06504	AUTOMATIC NAVIGATION, POSITIONING AND ORIENTATION DEVICE FOR AGRICULTURAL MACHINERY	2021/09/06
2021/06505	JIETACIN ANALOGUE AND PREPARATION METHOD THEREOF	2021/09/06
2021/06506	BIONIC ROBOT SYSTEM BASED ON DEEP LEARNING	2021/09/06
2021/06508	VIBRATION DAMPING COMPRESSOR	2021/09/06
2021/06545	ORGANIC FERTILIZER FOR IMPROVING RESISTANCE OF SUGARCANE TO RATOON STUNTING DISEASE AND PREPARATION METHOD THEREOF	2021/09/07
2021/06546	MOBILE NURSING BED CAPABLE OF CONVENIENTLY ADJUSTING PATIENTS' POSTURE FOR EMERGENCY DEPARTMENT	2021/09/07
2021/06590	METHOD OF LARGE SCALE PRODUCTION OF AGLAONEMA	2021/09/08
2021/06597	A METHOD FOR IDENTIFYING TRAVEL MODE BY MEANS OF RULE AND GAUSSIAN PROCESS CLASSIFIER	2021/09/08
2021/06646	SPECIAL SOIL SOLUTION EXTRACTION DEVICE FOR LYSIMETER	2021/09/09
2021/06647	PROTON EXCHANGE MEMBRANE FUEL CELL	2021/09/09
2021/06648	DEPILATING MACHINE FOR FRESH SHEEPSKIN	2021/09/09
2021/06660	A METHOD AND SYSTEM FOR OPTIMIZATION OF PARTICLE CONCENTRATION LEVELS OF A VARIOUS NANOFLUIDS IN A PLATE HEAT EXCHANGER	2021/09/09
2021/06661	A PROCESS FOR PREPARING	2021/09/09

Application Number	Patent Title	Filing Date
	WATER-BASED HYBRID NANOFLUID AND ANALYZING THERMAL CONDUCTIVITY	
2021/06682	INTELLIGENT SEED PRODUCTION DEVICE AND METHOD BASED ON MULTI-STAGE ADAPTIVE POSITIONING AND BUD EYE RECOGNITION	2021/09/09
2021/06683	DRYING DEVICE AND DISCHARGING EQUIPMENT USED IN PRODUCTION PROCESS OF CA ABRASIVE	2021/09/09
2021/06684	CUTTER STATE MONITORING AND CONTROL SYSTEM AND METHOD FOR NUMERICAL CONTROL MACHINE TOOL	2021/09/09
2021/06685	FLUIDIZED BED COLLISION TYPE AIRFLOW MECHANICAL SUPERFINE PULVERIZATION EQUIPMENT AND METHOD	2021/09/09
2021/06686	SPIRAL DISPERSING AND CYCLONE GRADING TYPE GRADING AND PACKAGING SYSTEM AND METHOD FOR PEANUT SHELL SUPERFINE POWDER	2021/09/09
2021/06689	COMPETITION GRAPH-BASED DEMAND RESPONSE METHOD FOR ELECTRIC VEHICLE CHARGING STATION	2021/09/10
2021/06691	METHOD FOR ANALYZING DYNAMIC MESHING AND TRANSMISSION PROCESS OF GEAR AND RACK BASED ON SPH	2021/09/10
2021/06694	A SOIL CONDITIONER FOR TREATING SALINE-ALKALI LAND AND ITS PREPARATION METHOD AND APPLICATION	2021/09/10
2021/06695	PREPARATION METHOD, PRODUCTS AND APPLICATIONS OF LIGNIN NANOPARTICLES	2021/09/10
2021/06696	HYDRAULIC SUPPORT STRAIGHTNESS DETECTION DEVICE AND WORKING METHOD THEREOF	2021/09/10
2021/06697	PUMPING WELL FOR PUMPING AND DISCHARGING LEACHATE IN LANDFILLS	2021/09/10
2021/06699	LOW-TEMPERATURE AIR SUSPENSION KOREAN PINE SEED OIL PINOLENIC ACID NANOEMULSION COMPOSITION MICROCAPSULE	2021/09/10

Application Number	Patent Title	Filing Date
2021/06719	AIR ENERGY THROUGH-FLOW BOX DRYER FOR WALNUT SHELLS AND WORKING METHOD THEREOF	2021/09/10
2021/06724	QUALITY CONTROL PHANTOM AND EVALUATION METHOD FOR MAGNETIC RESONANCE ARTERIAL SPIN LABELING PERFUSION IMAGING	2021/09/10
2021/06725	MAGNETIC RESONANCE RADIO FREQUENCY POWER AMPLIFIER APPARATUS AND MAGNETIC RESONANCE SYSTEM	2021/09/10
2021/06750	CLUSTERING METHOD BASED ON PARTICLE SWARM OPTIMIZATION FOR WIRELESS SENSOR NETWORKS	2021/09/13
2021/06751	A SIGNIFICANCE DETECTION METHOD BASED ON CNN AND BACKGROUND PRIOR	2021/09/13
2021/06752	AIR-PERMEABLE POLYVINYL ALCOHOL FILM AND PREPARATION METHOD THEREOF	2021/09/13
2021/06753	FLOOD CONTROL RISK IDENTIFICATION AND ASSESSMENT METHOD OF WATER TRANSFER PROJECTS	2021/09/13
2021/06754	A NEW METHOD FOR ANALYSIS AND EXTRACTION OF LINEAR ANOMALIES IN SUBMARINE HYDROTHERMAL PROSPECTIVE ZONES	2021/09/13
2021/06757	EFFICIENT HEAT-DISSIPATION CONTROLLER FOR AUTOMOBILE AND PROTECTIVE SHELL THEREOF	2021/09/13
2021/06786	A CHINESE MEDICINAL COMPOSITION FOR STRENGTHENING BODY RESISTANCE, ANTIVIRAL AND EPIDEMIC PREVENTION, AND ITS PREPARATION METHOD	2021/09/14
2021/06787	METHOD FOR DIRECTLY PREPARING FOAMING MATERIAL BY USING BLAST FURNACE SLAG	2021/09/14
2021/06788	AUXILIARY DEVICE FOR BALLET TRAINING THAT IS CONVENIENT FOR CORRECTING DANCING POSTURES	2021/09/14
2021/06789	PORTABLE URINE BAG AND ITS CLAMPING HEAD	2021/09/14
2021/06790	PESTICIDE SPRAYING DEVICE BASED ON UNMANNED AERIAL VEHICLE AND CONTROL METHOD THEREOF	2021/09/14

Application Number	Patent Title	Filing Date
2021/06791	SPRAY UNMANNED AERIAL VEHICLE	2021/09/14
2021/06792	INCOMING OIL MEASUREMENT INDICATOR OF HYDRAULIC PIPELINE AND DETECTION METHOD	2021/09/14
2021/06793	GREEN PREVENTION AND CONTROL METHODS OF POTATO LATE BLIGHT	2021/09/14
2021/06794	RAPID PROPAGATION METHOD OF WILD TEA PLANT (CAMELLIA TALIENSIS)	2021/09/14
2021/06795	FOUR-WHEEL CART CAPABLE OF STEERING IN SITU	2021/09/14
2021/06796	TRADITIONAL CHINESE MEDICINE COMPOSITION FOR PREVENTING AND TREATING MYCOPLASMA GALLISEPTICUM AND ESCHERICHIA COLI MIXED INFECTION OF POULTRY AND PREPARATION METHOD THEREOF	2021/09/14
2021/06826	NATURAL PLANT ADDITIVE FOR IMPROVING REPRODUCTIVE PERFORMANCE OF SOWS AND PREPARATION METHOD THEREOF	2021/09/17
2021/06864	RAPID VIABLE DNA SCREENING INSTRUMENT AND USE METHOD AND APPLICATION THEREOF	2021/09/17
2021/07024	A SYNTHETIC METHOD FOR α -KETOAMIDE COMPOUND OF ORTHO ALDEHYDE GROUP	2021/09/21
2021/07039	A FACIAL RECOGNITION SMART LOCK CONTROL SYSTEM BASED ON 5G TECHNOLOGY	2021/09/21
2021/07072	ECG SIGNAL CLASSIFICATION SYSTEM AND METHOD BASED ON FPA AND COMPACT MULTIPLE CLASS SVM	2021/09/22
2021/07099	HIGH FIELD ASYMMETRIC ION MOBILITY SPECTROMETRY (FAIMS) CLASSIFICATION AND RECOGNITION METHOD, DEVICE AND EQUIPMENT THEREOF	2021/09/23
2021/07441	METHOD FOR SEPARATING CHOLESTEROL IN PHOSPHOLIPID MEMBRANE USING MODIFIED BASE	2021/10/04
2021/07467	METHOD AND DEVICE FOR INTELLIGENT PRODUCT QUALITY DETECTION	2021/10/04

OTHER OFFICE NOTICES

NOTICE



Companies and Intellectual
Property Commission
a member of the dtic group

COMPANIES AND INTELLECTUAL PROPERTY COMMISSION (CIPC)

Taking into consideration that CIPC official office days are Mondays to Fridays and does not include week-ends or public holidays, notice is hereby given in terms of and for purposes of the Acts mentioned in the Schedule below, that CIPC will be closed to the public from **10h00 on Friday 24 December 2021 up to and including Friday 31 December 2021.**

The CIPC Offices at –

- a) the Department of Trade, Industry and Competition (the dtic) (77 Meintjies Street, Block F – Entfufukweni) in Sunnyside, Pretoria;
 - b) 1st floor, Office 103, Sancier Building, 541 Madiba Street, Arcadia, Pretoria;
 - c) Talis House, No 17 Simmonds street, Cnr Main and Simmonds street, Marshalltown, Johannesburg;
 - d) Norton Rose House No 8, Shop Number 3, Riebeek Street, Thibault Square, Cape Town; and
 - e) (CIPC officials) at Trade and Investment KwaZulu Natal (TIKZN) situated at 1 Arundel Close, Kingsmead Office Park, Kingsmead Boulevard, Stalwart Simelane Street in Durban,
- will re-open at 08h00 on Monday 3 January 2022.

The lodgment of documents and services of legal documents will be accepted on Thursday 23 December 2021 until 15h30.

The days from Friday 24 December 2021 up to and including Sunday 2 January 2022 will be regarded as *dies non* for purposes of the stated Acts.

CIPC offers different lodgment / filing methods for certain services to its customers. During this period, services processed by automated means will continue to be processed while those services which require back-office intervention / finalisation e.g. services which require scanned documents to be e-mailed to dedicated e-mail addresses or uploaded via electronic platforms e.g. New E-Services, will only resume from Monday 3 January 2022.

Please also take note that with regard to name reservations, all reserved names that would have lapsed between Friday 24 December 2021 up to and including Sunday 2 January 2022, will now have their reservation dates moved forward to Monday 3 January 2022 and will, therefore, only elapse on that date.

SCHEDULE

Trade Marks Act, 1993
Patents Act, 1978
Design Act, 1993
Copyright Act, 1978
Companies Act, 2008
Close Corporations Act, 1984
Co-operatives Act, 2005
Registration of Copyright in Cinematograph Film Act, 1977

Kind regards, _____

Rory Voller
29/06/2021 13:18:35 (UTC+02:00)
Signed by Rory Voller,
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Rory Voller
Commissioner: CIPC

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