PATENT JOURNAL

INCLUDING TRADE MARKS, DESIGNS AND COPYRIGHT IN CINEMATOGRAPH FILMS

SEPTEMBER 2021

VOL 54 • No. 09



Companies and Intellectual Property Commission

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Part II of II

ISSUED MONTHLY

DATE OF ISSUE: 29 SEPTEMBER 2021

ISSN 2223-4837

PATENT JOURNAL

INCLUDING TRADE MARKS, DESIGNS AND COPYRIGHT IN CINEMATOGRAPH FILMS

VOL. 54 No. 09

Date of Issue: 29 SEPTEMBER 2021

PATENTS, TRADE MARKS, DESIGNS AND COPYRIGHT OFFICE

Official notices of proceedings under:

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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 2021/08/23 -

2021/06042 ~ Provisional ~54:D-ATM MONEY PRINTING ~71:S and S Digitals (Pty)Ltd, 5667 Phokeng Street, Mhluzi Location, South Africa ~72: S and S Digitals (Pty)Ltd~ 33:ZA ~31:3084 ~32:22/08/2021

2021/06040 ~ Provisional ~54:SCHEDULING ESSENTIAL PROCESSES ~71:GROENEWALD, Nicolaas Jacobus, 4 Eland Avenue, Bergsig, South Africa ~72: GROENEWALD, Nicolaas Jacobus~

2021/06043 ~ Complete ~54:A TERMINAL INTELLIGENT CONTROL PLATFORM FOR COMPUTER POWER SUPPLY ~71:Xi'an Technological University, No.2 Xuefu Middle Road, weiyang district, Xi 'an, Shaanxi, People's Republic of China ~72: Chen Guoshao~

2021/06048 ~ Complete ~54:ACTIVE VEHICLE DEFENSE SYSTEM AND METHOD OF USING THE SAME ~71:Michael C. Mercer, 385 Main Street South, Portland, ME 04106, United States of America ~72: Michael C. Mercer~ 33:US ~31:17/123,600 ~32:16/12/2020

2021/06063 ~ Complete ~54:FUNGICIDE FORMULATIONS WITH REDUCED CRYSTAL GROWTH ~71:Syngenta Crop Protection AG, Rosentalstrasse 67, BASEL 4058, SWITZERLAND, Switzerland ~72: CAPUZZI, Giulia;KIM, Sejong;VARSHNEY, Manoj~ 33:US ~31:62/824,804 ~32:27/03/2019

2021/06070 ~ 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;IWONA WRONA;KEREM OZBOYA;MATTHEW LUCAS~ 33:US ~31:62/796,411 ~32:24/01/2019;33:US ~31:62/822,353 ~32:22/03/2019;33:US ~31:62/934,900 ~32:13/11/2019

2021/06055 ~ Complete ~54:INDOLO HEPTAMYL OXIME ANALOGUE AS PARP INHIBITOR ~71:CHIA TAI TIANQING PHARMACEUTICAL GROUP CO., LTD, Building No.9, Xuanwu District, 699-8 Xuanwu Ave, People's Republic of China ~72: CHEN, Shuhui;CHI, Zhigang;DING, Charles, Z.;HU, Yanbin;LI, Gang;LUO, Jin;SUN, Fei~ 33:CN ~31:201910107947.5 ~32:02/02/2019;33:CN ~31:201910111576.8 ~32:12/02/2019;33:CN ~31:201910684020.8 ~32:26/07/2019

2021/06068 ~ Complete ~54:METHOD FOR MANUFACTURING CHROMIUM OXIDE COATED TINPLATE ~71:TATA STEEL IJMUIDEN B.V., Wenckebachstraat 1, 1951 JZ Velsen-Noord, Netherlands ~72: JACQUES HUBERT OLGA JOSEPH WIJENBERG;MARK WILLEM LITZ;MICHIEL STEEGH~ 33:EP ~31:19159095.9 ~32:25/02/2019

2021/06053 ~ Complete ~54:WEAR MEMBER FOR EARTH WORKING EQUIPMENT ~71:ESCO Group LLC, 2141 NW 25th Avenue, PORTLAND 97210-2578, OR, USA, United States of America ~72: AMES, Jared

R.;CLARKE, Rodney K.;DARE, Michael C.;DUNFORD, Matthew J.;HANKLAND, Joel S.;HODGES, Geoffrey R.;MOORE, Sean G.;QIAN, Junbo~ 33:US ~31:62/234,473 ~32:29/09/2015

2021/06058 ~ Complete ~54:POLYNUCLEOTIDES ~71:FREELINE THERAPEUTICS LIMITED, Stevenage Bioscience Catalyst, United Kingdom ~72: CORBAU, Romuald;KIA, Azadeh;MCINTOSH, Jenny;MIRANDA, Carlos;NATHWANI, Amit~ 33:GB ~31:1901512.2 ~32:04/02/2019;33:GB ~31:1917910.0 ~32:06/12/2019

2021/06039 ~ Provisional ~54:WATER TREATMENT ~71:BIODX BIOLOGICAL CHEMICAL TECHNOLOGIES (PTY) LTD, Building S3, Block D, Pinelands Office Park, Modderfontein, Edenvale 1609, Gauteng Province, SOUTH AFRICA, South Africa ~72: BOTHA, Christo;CLOETE, Eugene Thomas;RODRIQUES, Humberto Nunes~

2021/06046 ~ Complete ~54:A PREPARATION METHOD BASED ON GRAPE SEED NUTRIENT TABLET ~71:Shanxi Agricultural University, No79 Longchen north Street, Xiaodian District, Taiyuan, Shanxi, People's Republic of China ~72: Huang Liping;Liu Xiaoting;Zhao Qifeng~

2021/06056 ~ Complete ~54:WHEEL FOR CLOSING SYSTEM ~71:PRECISION PLANTING LLC, 23207 Townline Road, Tremont, United States of America ~72: RADTKE, Ian~ 33:US ~31:62/843,037 ~32:03/05/2019;33:US ~31:62/866,700 ~32:26/06/2019;33:US ~31:62/967,272 ~32:29/01/2020;33:US ~31:62/985,094 ~32:04/03/2020

2021/06045 ~ Complete ~54:PREPARATION METHOD OF ORGANIC AND INORGANIC FOLIAR FERTILIZER FOR IMPROVING SUGARCANE YIELD AND SUGAR CONTENT ~71:Guangxi Academy of Agricultural Sciences, No.174, East Daxue Road, Nanning City, Guangxi, People's Republic of China ~72: Chen Rongfa;Deng Yuchi;Fan Yegeng;Lu Xinggao;Luo Ting;Qiu Lihang;Weng Mengling;Wu Jianming;Yan Haifeng;Zhou Huiwen;Zhou Zhongfeng~

2021/06054 ~ Complete ~54:FLUID FEED RING AND ASSOCIATED APPARATUS AND METHOD ~71:JOHNSON MATTHEY PUBLIC LIMITED COMPANY, 5th Floor 25 Farringdon Street, United Kingdom ~72: MASON, Daniel;OBELCZ, Paul;TROLAND, Daniel~ 33:US ~31:62/825,040 ~32:28/03/2019

2021/06062 ~ Complete ~54:SUPPORTED CATALYST PARTICLES ~71:Cataler Corporation, 7800, Chihama, KAKEGAWA-SHI 4371492, SHIZUOKA, JAPAN, Japan;Toyota Jidosha Kabushiki Kaisha, 1, Toyotacho, TOYOTA-SHI 4718571, AICHI, JAPAN, Japan ~72: AIKAWA, Tomomasa;KAWAMURA, Shogo;MIURA, Masahide;NAITO, Isao;NIHASHI, Hiroki;SHIMANO, Norimichi;SHIRAKAWA, Shogo;TAKAGI, Nobuyuki~ 33:JP ~31:2019-035818 ~32:28/02/2019

2021/06067 ~ Complete ~54:TRICYCLIC DEGRADERS OF IKAROS AND AIOLOS ~71:C4 THERAPEUTICS, INC., 490 Arsenal Way, Suite 200, Watertown, Massachusetts, 02472, United States of America ~72: ANDREW CHARLES GOOD;ANDREW J PHILIPPS;JAMES A HENDERSON;MINSHENG HE~ 33:US ~31:62/833,107 ~32:12/04/2019

2021/06049 ~ Complete ~54:INTELLIGENT SEED PRODUCTION APPARATUS AND METHOD BASED ON MULTISTAGE SCREENING AND BUD EYE IDENTIFICATION ~71:Inner Mongolia University For Nationalities, No. 536, West Huolinhe Street, Horqin District, Tongliao City, Inner Mongolia, 028000, People's Republic of China;Institute of Agricultural Mechanization, Xinjiang Academy of Agricultural Sciences, No. 291, Nanchang South Road, Saybag District, Urumqi City, Xinjiang, 830091, People's Republic of China;Qingdao University of Technology, No. 777, Jialingjiang Road, Economic and Technological Development Zone, Qingdao City, Shandong Province, 266033, People's Republic of China ~72: GONG, Peng;HOU, Yali;JIA, Dongzhou;LI, Changhe;LI, Deju;PENG, Yezhen;SHI, Jia;WANG, Rong;YANG, Huimin;YUAN, Zongbin;ZHAO, Huayang;ZHOU, Qiyu~

2021/06061 ~ Complete ~54:AN ENCODER, A DECODER AND CORRESPONDING METHODS OF DEBLOCKING FILTER ADAPTATION ~71:Huawei Technologies Co., Ltd., Huawei Administration Building, Bantian, Longgang District, SHENZHEN 518129, GUANGDONG, CHINA (P.R.C.), People's Republic of China ~72: CHEN, Jianle;ESENLIK, Semih;GAO, Han;KOTRA, Anand Meher;WANG, Biao;ZHAO, Yin~ 33:US ~31:62/797,163 ~32:25/01/2019

2021/06069 ~ Complete ~54:APPARATUS, SYSTEM AND METHOD OF DETERMINING ONE OR MORE PARAMETERS OF A REFRACTIVE ERROR OF A TESTED EYE ~71:6 OVER 6 VISION LTD., 6 Simtat Baz, Kfar Saba, 4427203, Israel ~72: ALEXANDER ZLOTNIK;OFER LIMON;ORNA BREGMAN AMITAI;YAIR KITTENPLON~ 33:US ~31:62/796,240 ~32:24/01/2019

2021/06051 ~ Complete ~54:AN INTELLIGENT MONITORING SYSTEM FOR HOISTING ELECTROMECHANICAL MACHINE BASED ON AUDIO FEATURE ANALYSIS ~71:Anhui University of Science & amp; Technology, No.168 Taifeng Street, Shannan New District, Huainan City, Anhui, People's Republic of China ~72: Li Jingzhao;Lu Liangwei~ 33:CN ~31:202110070287.5 ~32:19/01/2021

2021/06064 ~ Complete ~54:GLYCYRRHETINIC ACID DERIVATIVES FOR USE IN TREATING HYPERKALEMIA ~71:Ardelyx, Inc., 34175 Ardenwood Boulevard, Suite 200, FREMONT 94555, CA, USA, United States of America ~72: CHEN, Tao;DRAGOLI, Dean;LEADBETTER, Michael;LEWIS, Jason;LUEHR, Gary~ 33:US ~31:62/802,210 ~32:07/02/2019

2021/06066 ~ Complete ~54:METHOD FOR ELECTROLYTICALLY DEPOSITING A CHROMIUM OXIDE LAYER ~71:TATA STEEL IJMUIDEN B.V., Wenckebachstraat 1, 1951 JZ Velsen-Noord, Netherlands ~72: ARNOUD CORNELIS ADRIAAN DE VOOYS;JACQUES HUBERT OLGA JOSEPH WIJENBERG;MARK WILLEM LITZ~ 33:EP ~31:19159093.4 ~32:25/02/2019;33:EP ~31:19209861.4 ~32:18/11/2019

2021/06052 ~ Complete ~54:A SIMPLE ELECTRONIC SLOPE MEASURING INSTRUMENT ~71:North China University of Water Resources and Electric Power, No.36, North Ring Road, Jinshui District, Zhengzhou City, Henan, 450003, People's Republic of China ~72: Bai Juan;Chen Lixia;Duan Meixia;Jiang Yong;Liu Hechao;Lu Guiming;Song Zengcai;Sun Xinjuan;Wang Sen;Xia Zhenwei;Xin Yanhui;Xiong Shichun;Yang Tianyu;Yao Shuxia;Yuan Sheng;Zhang Xiaohua~ 33:CN ~31:202110853487.8 ~32:27/07/2021

2021/06060 ~ Complete ~54:CD19-DIRECTED CHIMERIC ANTIGEN RECEPTORS AND USES THEREOF IN IMMUNOTHERAPY ~71:Nkarta, Inc., 6000 Shoreline Court, Suite 102, SOUTH SAN FRANCISCO 94080, CA, USA, United States of America ~72: BUREN, Luxuan Guo;CHAN, Ivan;GUO, Chao;LAZETIC, Alexandra Leida Liana;TOHMÉ, Mira;TRAGER, James Barnaby~ 33:US ~31:62/814,180 ~32:05/03/2019;33:US ~31:62/895,910 ~32:04/09/2019;33:US ~31:62/932,165 ~32:07/11/2019

2021/06072 ~ Complete ~54:MICROSEISMIC/ACOUSTIC EMISSION SOURCE LOCALIZATION METHOD IN COMPLEX STRUCTURE HAVING EMPTY SPACE ~71:CENTRAL SOUTH UNIVERSITY, No.932 South Lushan Road , Changsha, Hunan , 410083, People's Republic of China ~72: DONG, Longjun;HU, Qingchun;LI, Xibing~ 33:CN ~31:201910113634.0 ~32:14/02/2019

2021/06065 ~ Complete ~54:CURTAIN WALL ~71:LAURENS LEONARD J CLAEYS, Theo De Belderlaan 4, 2240, Zandhoven, Belgium;NAUSIKAÄ ELS P CLAEYS, Theo De Belderlaan 4, 2240, Zandhoven, Belgium;STEPHANIE CATHARINA R CLAEYS, Theo De Belderlaan 4, 2240, Zandhoven, Belgium ~72: ERIC CLAEYS~ 33:US ~31:62/818,821 ~32:15/03/2019;33:BE ~31:2019/5399 ~32:19/06/2019

2021/06041 ~ Provisional ~54:EARTH CUTTING APPARATUS, SYSTEM AND METHOD ~71:AGRIREVOLUTION (PTY) LIMITED, House No. 2, Welgevallen Experimental Farm, Suidwal Road, South Africa ~72: MOSTERT, Jaco;STOFBERG, Jacobus du Toit~

2021/06047 ~ Complete ~54:PREPARATION METHOD AND APPLICATION OF CEMENTED FILLER MATERIALS BY USING SUPERFINE TAILINGS ~71:University of Science and Technology Beijing, No.30 Xueyuan Road, Haidian District, Beijing, People's Republic of China ~72: Li Hao;Li Keqing;Li Qian;Ni Wen;Pu Junyuan;Zhang Minggen;Zhang Siqi~

2021/06044 ~ Complete ~54:AN APPLICATION METHOD OF VIRTUAL SIMULATOR FOR SIX-AXIS LARGE SECTIONS' CYLINDER SEGMENT DOCKING ~71:Northwestern Polytechnical University, 127 West Youyi Road, Beilin District, Xi'an Shaanxi, 710072, People's Republic of China ~72: Chen Mingyuan;Chen Xiduo;Kang Yonggang;Lai Yunfeng;Ren Haodi~ 33:CN ~31:202110034628.3 ~32:12/01/2021

2021/06050 ~ Complete ~54:A HETEROGENEOUS INTEGRATED MINING INTELLIGENT BASE STATION ~71:Anhui University of Science & amp; Technology, No.168 Taifeng Street, Shannan New District, Huainan City, Anhui, People's Republic of China ~72: Li Jingzhao;Qin Xiaowei;Wang Lei~ 33:CN ~31:202011565820.7 ~32:25/12/2020

2021/06057 ~ Complete ~54:SYSTEM AND METHOD FOR SPECIFYING AND CONTROLLING SUMP DEPTH ~71:JOY GLOBAL UNDERGROUND MINING LLC, 40 Pennwood Place, Suite 100, Warrendale, United States of America ~72: THEUNISSEN, Wilhelmus, Hendrickus~ 33:US ~31:62/801,405 ~32:05/02/2019

2021/06059 ~ Complete ~54:ALPHA-AMYLASE VARIANTS AND POLYNUCLEOTIDES ENCODING SAME ~71:Novozymes A/S, Krogshoejvej 36, BAGSVAERD 2880, DENMARK, Denmark ~72: ANDERSEN, Carsten;ARNEHED, Sofia;CHRISTENSEN, Lars Lehmann Hylling;FALLAH-ARAGHI, Ali;KLINGER, Markus;SANDSTRÖM, Anders Gunnar~ 33:EP ~31:19164228.9 ~32:21/03/2019

2021/06071 ~ Complete ~54:PHARMACEUTICAL ORAL DOSAGE FORMS FOR TREATMENT OF METABOLIC DISORDERS AND RELATED DISEASES THROUGH ORCHESTRATED RELEASE OF ENTEROKINES ~71:APHAIA PHARMA AG, Bahnhofstrasse 28, Switzerland ~72: BOLZ, Steffen-Sebastian;DEUSCH, Kai~ 33:EP ~31:18211446.2 ~32:10/12/2018

2021/06079 ~ Complete ~54:SPRINKLER GUARD WITH RETROACTIVE RISER INSTALLATION ~71:UNIVERSITY OF SOUTH AFRICA, 1 Preller Street Muckleneuk Ridge, South Africa ~72: STOFFBERG, GERRIT HENDRIK~ 33:ZA ~31:2020/05239 ~32:24/08/2020

- APPLIED ON 2021/08/24 -

2021/06080 ~ Complete ~54:VIDEO-BASED PHASE DIFFERENCE FUZZY INFERENCE DETERMINATION METHOD ~71:Qingdao Hisense Network Technology Co., Ltd., No. 308, Ningxia Road, high tech Industrial Park, Qingdao, Shandong, People's Republic of China;Shandong University, No. 179231, Jingshi Road, Lixia District, Jinan, Shandong, People's Republic of China;University of Johannesburg, Auckland Park Kingsway Campus Auckland Park Bunting Road, Johannesburg, Gauteng, South Africa ~72: Feng Yuanhong;Su Shibin;Sun Yanxia;Zhao Honghao;Zhu Wenxing~

2021/06092 ~ Complete ~54:MANUFACTURING METHOD OF HEAT DISSIPATION MATERIAL FOR HEAT ABSORPTION AND HEAT TRANSFER RADIATIVE RECOMBINATION MECHANISM CPU ~71:ZHUIXIN DIGITAL TECHNOLOGY CO., LTD., Zhang Jing Min, Room 1-333, Building 19, Shanda North Road, Licheng District, Jinan, Shandong, 250000, People's Republic of China ~72: Zhang Jing Min~ 33:CN ~31:201911039829.1 ~32:29/10/2019

2021/06105 ~ Complete ~54:CIRCUIT BREAKER ~71:Direct Current B.V., Building 8, Oosteinderweg 127C, AALSMEER 14232, THE NETHERLANDS, Netherlands;Eaton Intelligent Power Limited, 30 Pembroke Road,

DUBLIN 4, IRELAND, Ireland ~72: NIEHOFF, Ronald;STOKEMAN, Harry~ 33:GB ~31:1903018.8 ~32:06/03/2019

2021/06097 ~ Complete ~54:N-HETEROCYCLIC FIVE-MEMBERED RING-CONTAINING CAPSID PROTEIN ASSEMBLY INHIBITOR, PHARMACEUTICAL COMPOSITION AND USES THEREOF ~71:CHIA TAI TIANQING PHARMACEUTICAL GROUP CO., LTD., No. 369 Yuzhou South Rd., Lianyungang City, Jiangsu, 222062, People's Republic of China ~72: DANDAN LU;HANGZHOU SHEN;HONGJIANG XU;HUAN ZHANG;HUI WANG;JIE NI;JIE WANG;JIE WU;KAI CAO;LI ZHANG;PENG LU;SHUO CHEN;TIANXIAO ZHAO;WANGWEI AO;WEI SHI;XIAOJIN WANG;XINGFENG GE;XUEQIN MA;XUSHI LIU;YINSHENG ZHANG;YUAN LI~ 33:CN ~31:201910073465.2 ~32:25/01/2019

2021/06102 ~ Complete ~54:A CONTACT LENS SYSTEM ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), 164 83, Sweden ~72: CALTENCO, Hector;HUNT, Alexander~

2021/06111 ~ Complete ~54:A METHOD OF PREPARING ELECTROLYTIC MANGANESE DIOXIDE FOR PRODUCING LITHIUM MANGANATE ~71:GUANGXI GUILIU CHEMICAL CO. LTD, Huayonggong, 35 Xiangyan South Road, Luorong Town, liuzhou,, People's Republic of China ~72: HUANG, Jingming;LUO, Chifei;LUO, Yongcheng;QIN, Shengxian;WU, Yuanhua~ 33:CN ~31:202110345368.1 ~32:31/03/2021

2021/06085 ~ Complete ~54:AMINO XANTHATE ESTER SULFIDE ORE COLLECTOR AND PREPARATION METHOD AND APPLICATION THEREOF ~71:BEIJING GENERAL RESEARCH INSTITUTE OF MINING & amp; METALLURGY, BUILDING 23, ZONE 18 OF ABP, NO. 188, SOUTH 4TH RING ROAD WEST, People's Republic of China ~72: DAN ZHANG;LIANG LU;LONG HAN;WEI XIONG;XINGRONG ZHANG;YANGGE ZHU~ 33:CN ~31:202110674814.3 ~32:18/06/2021

2021/06095 ~ Complete ~54:PGM CONVERTING PROCESS AND JACKETED ROTARY CONVERTER ~71:TECHEMET, LP, 6025 Genoa Red Bluff Road, Pasadena, Texas, United States of America ~72: ALBRECHT, Edward, W.;MCCULLOUGH, Steven, D.~ 33:US ~31:16/397,441 ~32:29/04/2019;33:US ~31:16/507,158 ~32:10/07/2019

2021/06073 ~ Provisional ~54:BANTU WORDS ~71:TEBOGO DAVID MNGWENYA, 870 DENNYSEN AVENUE, South Africa ~72: TEBOGO DAVID MNGWENYA~

2021/06083 ~ Complete ~54:ULTRASONIC IMPACT VIBRATORY STRESS RELIEF SYSTEM ~71:Shanghai Maritime University, 1550 Haigang Avenue, Nanhui, Pudong, Shanghai, People's Republic of China ~72: Bangping Gu;Junshuo Wang;Shuaizhen Li;Wanjia Shen;Wenjie Hua;Wenzhe Xue;Xiong Hu;Yanjia Shen;Yu Ji;Zhipeng Huo~ 33:CN ~31:CN202110646264.4 ~32:10/06/2021

2021/06086 ~ Complete ~54:DIRECT-FEED FLAX THRESHER WITH WINNOWING DEVICE ~71:Zhangjiajie Agricultural Science and Technology Research Institute, No. 252, Jiaochang Road, Yongding District, Zhangjiajie City, Hunan Province, 427000, 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;DONG, Guoyun;JIN, Guanrong;LI, Wenlue;LIU, Tingting;LUO, Xiahong;ZHU, Guanlin~

2021/06101 ~ Complete ~54:A PROCESS FOR THE PREPARATION OF TRAMETINIB ACETIC ACID SOLVATE ~71:AUROBINDO PHARMA LIMITED, The Water Mark Building, Plot No.11, Survey No.9, Kondapur, Hitech City, Hyderabad, 500 084, India ~72: GANGADHARA BHIMA SHANKAR NANGI;JYOTHI SUDHARSHAN CHAKRADHAR SALADI;RAMADAS CHAVAKULA;SADASHIV JAGTAP;SANDEEP KUMAR

VADLA;SIVAKUMARAN MEENAKSHISUNDERAM;VENKATA RAMA KRISHNA MURTHY MOTURU~ 33:IN ~31:201941004635 ~32:06/02/2019

2021/06104 ~ Complete ~54:GENOME-EDITED BIRDS ~71:THE STATE OF ISRAEL, MINISTRY OF AGRICULTURE & amp; RURAL DEVELOPMENT, AGRICULTURAL RESEARCH ORGANIZATION (ARO) (VOLCANI CENTER), THE VOLCANI CENTER, P.O. BOX 15159, RISHON LEZION 7528809, ISRAEL, Israel ~72: BEN-TAL COHEN, Enbal;CINNAMON, Yuval~ 33:US ~31:62/814,162 ~32:05/03/2019

2021/06538 ~ Complete ~54:TOLL-LIKE RECEPTOR MODULATING 4,6-DIAMINO-PYRIDO[3,2-D]PYRIMIDINE COMPOUNDS ~71:GILEAD SCIENCES, INC., 333 LAKESIDE DRIVE, FOSTER CITY, United States of America ~72: AKTOUDIANAKIS, Evangelos;CHIN, Gregory;MACKMAN, Richard L.;METOBO, Samuel E.;MISH, Michael R.;PYUN, Hyung-jung;ZABLOCKI, Jeff~ 33:US ~31:62/128,397 ~32:04/03/2015;33:US ~31:62/250,403 ~32:03/11/2015

2021/06108 ~ Complete ~54:N-SUBSTITUTED INDOLES AND OTHER HETEROCYCLES FOR TREATING BRAIN DISORDERS ~71:THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, 1111 Franklin Street, 12th Floor, United States of America ~72: DUNLAP, Lee;OLSON, David E.;WAGNER, Florence F.~ 33:US ~31:62/811,206 ~32:27/02/2019;33:US ~31:62/958,220 ~32:07/01/2020

2021/06078 ~ Provisional ~54:WIRELESS DETONATOR ARRANGEMENT ~71:DETNET SOUTH AFRICA (PTY) LTD, AECI Place, The Woodlands, Woodlands Drive, Woodmead, South Africa ~72: LABUSCHAGNE, Albertus Abraham;MULLER, Elmar Lennox~

2021/06098 ~ Complete ~54:BLOW MOULDING TOOL AND METHOD FOR THERMALLY PROCESSING A SUBREGION OF A SURFACE OF A PLASTIC CONTAINER ~71:ALPLA WERKE ALWIN LEHNER GMBH & amp; CO. KG, 6971 Hard, Austria ~72: ANDRE EYRICH;JOHANN KÜNZ;THOMAS BOHLE~ 33:CH ~31:00413/19 ~32:29/03/2019

2021/06076 ~ Provisional ~54:MULTIPORT VALVE ~71:Fluidra Waterlinx (Pty) Ltd, 5 Kruger Street, Denver, Johannesburg 2094, Gauteng, SOUTH AFRICA, South Africa ~72: BOTHA, Hermanus Johannes;VAN DER VYVER, Donovan~

2021/06091 ~ Complete ~54:AGRICULTURE DRONE EQUIPPED WITH LIQUID OVERFLOW PREVENTION APPARATUS ~71:PLANT PROTECTION RESEARCH INSTITUTE GUANGDONG ACADEMY OF AGRICULTURAL SCIENCES, 7 Jinying Road, Tianhe District, Guangzhou, People's Republic of China ~72: CHANG, Hong;LIU, Yanping;SUN, Haibin;WANG, Siwei;WANG, Xiaonan~ 33:CN ~31:202011557859.4 ~32:25/12/2020

2021/06093 ~ Complete ~54:MANUFACTURING METHOD OF HONEYCOMB SOLID-LIQUID COMPOSITE HEAT DISSIPATION MATERIAL FOR CPU HEAT DISSIPATION ~71:CHUXIN DIGITAL TECHNOLOGY CO., LTD., Zhang Jing Min, Room 1-333, Building 19, Shanda North Road, Licheng District, Jinan, Shandong, 250000, People's Republic of China ~72: Zhang Jing Min~ 33:CN ~31:201911040560.9 ~32:29/10/2019

2021/06096 ~ Complete ~54:COMPOUNDS USEFUL IN HIV THERAPY ~71:GLAXOSMITHKLINE INTELLECTUAL PROPERTY (No.2) LIMITED, 980 Great West Road, Brentford, United Kingdom;VIIV HEALTHCARE COMPANY, 251 Little Falls Drive, Wilmington, Delaware, United States of America ~72: DE LA ROSA, Martha, Alicia;MILLER, John, F.;NAIDU, B. Narasimhulu;SAMANO, Vicente;TEMELKOFF, David;VELTHUISEN, Emile, Johann~ 33:US ~31:62/814,316 ~32:06/03/2019

2021/06082 ~ Complete ~54:CONTROL METHOD AND SYSTEM FOR PREVENTING VEHICLE DETENTION AT THE INTERSECTION ~71:Qingdao Hisense Network Technology Co., Ltd, No. 308, Ningxia Road, high tech

Industrial Park, Qingdao, Shandong, People's Republic of China;Shandong University, No. 179231, Jingshi Road, Lixia District, Jinan, Shandong, People's Republic of China;University of Johannesburg, Auckland Park Kingsway Campus Auckland Park Bunting Road, Johannesburg, Gauteng, South Africa ~72: Feng Yuanhong;Su Shibin;Sun Yanxia;Zhao Jun;Zhu Wenxing~

2021/06100 ~ Complete ~54:METHOD FOR TRANSFERRING A NEGATIVE STRUCTURE OF A SURFACE OF AN INNER WALL OF A BLOW MOULDING TOOL, AND PLASTIC CONTAINER ~71:ALPLA WERKE ALWIN LEHNER GMBH & amp; CO. KG, 6971 Hard, Austria ~72: JOHANN KÜNZ;THOMAS BOHLE~ 33:CH ~31:00413/19 ~32:29/03/2019

2021/06107 ~ Complete ~54:PACKAGED ELECTRONIC MODULE AND MANUFACTURING METHOD THEREOF ~71:ELLIPSE WORLD, INC., 8615 Washington Blvd, United States of America ~72: ESSEBAG, Jacques;LALO, Cyril;POCHIC, Sebastien~ 33:US ~31:16/299,037 ~32:11/03/2019

2021/06109 ~ Complete ~54:SLIDE-AND-SWING WING SYSTEM ~71:SUNFLEX ALUMINIUMSYSTEME GMBH, Im Ruttenberge 12, Germany ~72: Ernst-Josef SCHNEIDER~ 33:EP ~31:19215952.3 ~32:13/12/2019

2021/06167 ~ Provisional ~54:RECORDING/ACKNOWLEDGEMENT THE RECEIVING OF ISIPHEKISO ~71:FORTUNE GUMEDE, 2B INGUNGULU STR, ZONE 7,, South Africa ~72: FORTUNE GUMEDE~

2021/06175 ~ Complete ~54:A COMPOSITION ~71:Matrida Chisango, 1893 Block B Letlhabile, South Africa ~72: Matrida Chisango;Zedia Chigwete~ 33:ZA ~31:2020/05328 ~32:26/08/2020

2021/06077 ~ Provisional ~54:INTERLOCKING CONCRETE RATINING WALL SYSTEM ~71:Raymond Marsh, 111, Maureen Circle, South Africa ~72: Raymond Marsh~

2021/06099 ~ Complete ~54:BLOW MOULDING TOOL FOR A BLOW MOULDING MACHINE ~71:ALPLA WERKE ALWIN LEHNER GMBH & amp; CO. KG, 6971 Hard, Austria ~72: JOHANN KÜNZ~ 33:CH ~31:00413/19 ~32:29/03/2019

2021/06103 ~ Complete ~54:PHARMACEUTICAL COMPOSITION COMPRISING MACITENTAN FOR THE TREATMENT OF CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION ~71:Actelion Pharmaceuticals Ltd, Gewerbestrasse 16, ALLSCHWIL 4123, SWITZERLAND, Switzerland ~72: CSONKA, Dénes;FARES, Wassim;HOOGKAMER, Hans;TORFS, Koen~ 33:IB ~31:2019/051874 ~32:25/01/2019;33:IB ~31:2019/060152 ~32:18/04/2019;33:IB ~31:2019/066495 ~32:21/06/2019;33:IB ~31:2019/067187 ~32:27/06/2019

2021/06166 ~ Provisional ~54:FOOD TIME APPLICATION ~71:KHAYA ELVIS NDONDO, 9 J Kokkewiet Avenue Vorna Valley Midrand, South Africa ~72: KHAYA ELVIS NDONDO~

2021/06106 ~ Complete ~54:AZEPINO-INDOLES AND OTHER HETEROCYCLES FOR TREATING BRAIN DISORDERS ~71:THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, 1111 Franklin Street, 12th Floor, United States of America ~72: OLSON, David E.;WAGNER, Florence F.~ 33:US ~31:62/811,208 ~32:27/02/2019

2021/06087 ~ Complete ~54:PREPARATION METHOD FOR FRUIT ULTRAFINE POWDER SOLID BEVERAGE ~71:HEBEI NORMAL UNIVERSITY OF SCIENCE AND TECHNOLOGY, NO. 360, WEST SECTION OF HEBEI STREET, People's Republic of China ~72: CHANG, XUEDONG;LIU, SUWEN;LIU, XIUFENG;SHI, PENGBAO~

2021/06094 ~ Complete ~54:MANUFACTURING METHOD OF COPPER-TOURMALINE COMPOSITE HEAT DISSIPATION MATERIAL FOR CPU HEAT DISSIPATION ~71:CHUXIN DIGITAL TECHNOLOGY CO., LTD.,

Zhang Jing Min, Room 1-333, Building 19, Shanda North Road, Licheng District, Jinan, Shandong, 250000, People's Republic of China ~72: Zhang Jing Min~ 33:CN ~31:201911040560.9 ~32:29/10/2019

2021/06165 ~ Provisional ~54:YA'GOB SPORTSWEAR ~71:Sebe James Kgati, 2389 Westbrook Estate, Protea Drive, Noordwyk,, South Africa ~72: SEBE JAMES KGATI~

2021/06074 ~ Provisional ~54:A BIOREACTOR FOR CONTACTLESS CO-CULTURING ~71:STELLENBOSCH UNIVERSITY, Admin B, Victoria Street, South Africa ~72: BAUER, Florian Franz;NAIDOO-BLASSOPLES, Rene Kathleen;OOSTHUIZEN, Jennifer Rae;POTT, Robert William McClelland;ROSSOUW, Debra~

2021/06110 ~ Complete ~54:METHOD AND SYSTEM FOR MINING ~71:NOVAMERA INC., Suite 102, 16-1375 Southdown Rd., Canada ~72: BUTT, Stephen Douglas;CRAMM, Allan R.;DE MOURA JUNIOR, Jeronimo~ 33:US ~31:62/810,818 ~32:26/02/2019

2021/06075 ~ Provisional ~54:A WATERLESS TOILET ~71:VERMAAK, Gladys, Henriëtte, 94 PERCHERON ROAD, BEAULIEU, KYALAMI, South Africa ~72: VERMAAK, Gladys, Henriëtte~

2021/06081 ~ Complete ~54:TRAFFIC FLOW OPTIMIZATION CONTROL METHOD BASED ON INTERSECTION GROUP ~71:Qingdao Hisense Network Technology Co., Ltd, No. 308, Ningxia Road, high tech Industrial Park, Qingdao, Shandong, People's Republic of China;Shandong University, No. 179231, Jingshi Road, Lixia District, Jinan, Shandong, People's Republic of China;University of Johannesburg, Auckland Park Kingsway Campus Auckland Park Bunting Road, Johannesburg, Gauteng, South Africa ~72: Feng Yuanhong;Su Shibin;Sun Yanxia;Wang Zihao;Zhu Wenxing~

2021/06084 ~ Complete ~54:FUNCTIONAL ORGANIC FERTILIZER FOR INCREASING YIELD WHILE REMEDYING ~71:Tianjin University, 92 Weijin Road, Nankai District, Tianjin, People's Republic of China ~72: Ding Hui;Liu Rui;Zhao Dan~ 33:CN ~31:202011464286.0 ~32:10/12/2020

2021/06088 ~ Complete ~54:COSMETIC APPLICATOR WAND; ASSEMBLY FOR APPLICATION OF COSMETIC COMPRISING AN APPLICATOR WAND AND AN APPLICATOR AND A METHOD FOR APPLYING COSMETIC FORMULATION ~71:GUIDE BEAUTY LLC, 100 Chestnut Street, Suite 1803, Rochester, New York, 14604, United States of America ~72: TERRI SILVERBERG~ 33:US ~31:62/627,860 ~32:08/02/2018

2021/06089 ~ Complete ~54:AIRCRAFT AND METHOD FOR ACHIEVING VERTICAL TAKE-OFF AND LANDING AND HORIZONTAL FLIGHT BY SEGMENTED TILTING BOTTOM-DRIVEN PLATE WINGS ~71:YANG, Weihua, Room 501, unit 2, building 16, jinshuiwan community, No. 399, Xiaokang Avenue, People's Republic of China ~72: YANG, Weihua~

2021/06090 ~ Complete ~54:A VISCOSE LARGE BIOLOGICAL FIBER CONTAINING ACTIVE INGREDIENTS OF PROTEA CYNAROIDES, OLIVE, PEPPERMINT AND LAVENDER, AND A METHOD FOR PREPARING THE SAME ~71:BESTEE MATERIAL (QINGDAO) CO., LTD., Room 611 Area B, No. 12 Hong Kong Middle Road, Shinan District Qingdao, People's Republic of China;QINGDAO BYHERB NEW MATERIAL CO., LTD., 4/F, Building 3, No. 151, Huizhiqiao Road, High-tech Zone, Qingdao, People's Republic of China;SINOTECH ACADEMY OF TEXTILE (QINGDAO) CO., LTD., Room 90-210A, No. 80B[5], Siliu South Road, Shibei District, Qingdao, People's Republic of China ~72: CHI, Shan;HUANG, Xiaohua;ZHEN, Li~

2021/06163 ~ Provisional ~54:WIRELESS INITIATING ARRANGEMENT ~71:DETNET SOUTH AFRICA (PTY) LTD, AECI Place, The Woodlands, Woodlands Drive, Woodmead, South Africa ~72: LIEBENBERG, Abraham Johannes;MULLER, Elmar Lennox;YATES, Marinus~

- APPLIED ON 2021/08/25 -

2021/06126 ~ Complete ~54:SOLAR LIGHT POST ~71:COCHRANE STEEL PRODUCTS (PTY) LTD, 125 Fitter Road, Spartan, South Africa ~72: COCHRANE, Richard Bruce~ 33:ZA ~31:2020/05301 ~32:26/08/2020

2021/06119 ~ Complete ~54:BIOSENSOR, PREPARATION METHOD THEREFOR AND APPLICATION THEREOF ~71:Qingdao Agricultural University, No. 700 Changcheng Road, Chengyang, Qingdao, Shandong, People's Republic of China ~72: Hui Ni;Wang Jiasheng~

2021/06149 ~ Complete ~54:METHOD OF PROPHYLAXIS OF CORONAVIRUS AND/OR RESPIRATORY SYNCYTIAL VIRUS INFECTION ~71:STARPHARMA PTY LTD, 4-6 Southampton Crescent, Australia ~72: DONG, Yao Da;FAIRLEY, Jacinth;HEERY, Graham;HUBERMAN, Jessica;PAULL, Jeremy Robert Arthur~ 33:AU ~31:2020901194 ~32:15/04/2020;33:AU ~31:2020902993 ~32:21/08/2020;33:AU ~31:2020904246 ~32:17/11/2020

2021/06158 ~ Complete ~54:TOPICAL COMPOSITION FOR IMPROVED HEALING OF OCULAR AILMENTS ~71:ELEOS PHARMACEUTICALS, LLC, 1357 Oconee Connector, Building 300, Watkinsville, Georgia, 30677, United States of America ~72: DAVID M SAILORS;JAMES LOUIS WOOD;JONATHAN WOODY;JOSHUA Z GREESON;MONA E BUICE~ 33:US ~31:62/808,037 ~32:20/02/2019

2021/06151 ~ Complete ~54:INTERNET OF THINGS-BASED MONITORING SYSTEM FOR SPECIAL ITEMS, METHOD THEREOF AND DEVICE THEREOF ~71:JOYO SCIENCE AND TECHNOLOGY CO. LTD., JIA NO. 2 BAIYANG ROAD, LIANGXIANG ECONOMIC DEVELOPMENT ZONE, People's Republic of China ~72: BI, JIANGUANG~ 33:CN ~31:202010650370.5 ~32:08/07/2020

2021/06125 ~ Complete ~54:CROSS POLLINATION METHOD FOR MYTILARIA ~71:RESEARCH INSTITUTE OF TROPICAL FORESTRY, CHINESE ACADEMY OF FORESTRY, No.682 Guangshan 1st Road, Tianhe District, Guangzhou, People's Republic of China ~72: DONG, Mingliang;LI, Rongsheng;YANG, Jinchang;YU, Niu~

2021/06137 ~ Complete ~54:SYSTEM AND METHOD FOR INSPECTING A RAIL USING MACHINE LEARNING ~71:SPERRY RAIL HOLDINGS, INC., 5 Research Drive, United States of America ~72: GILBERT, David Henry~ 33:US ~31:15/826,780 ~32:30/11/2017

2021/06153 ~ Complete ~54:HUMANIZED ANTI-FOLATE RECEPTOR 1 CHIMERIC ANTIGEN RECEPTORS AND USES THEREOF ~71:Phanes Therapeutics, Inc., 9215 Brown Deer Road, Suite B, SAN DIEGO 92121, CA, USA, United States of America ~72: JIA, Haiqun;WANG, Minghan;ZOU, Hui~ 33:US ~31:62/832,975 ~32:12/04/2019;33:US ~31:62/863,330 ~32:19/06/2019;33:US ~31:62/931,988 ~32:07/11/2019

2021/06123 ~ Complete ~54:TRADITIONAL HUIZHOU ROOF TILE FORMING TECHNOLOGY ~71:HuangShan University, No.39 Xihai Road, Tunxi District, Huangshan City, Anhui, People's Republic of China ~72: Huang Guanjun;Wu Rui;Wu Wenjin~

2021/06133 ~ Complete ~54:TRANSACTING ~71:Incatorque (Pty) Ltd, Devander House, 298 Stokkiesdraai Street, Erasmusrand, South Africa ~72: THERON, Nicolaas Jacobus~ 33:ZA ~31:2020/05267 ~32:25/08/2020

2021/06139 ~ Complete ~54:SOLID FORMS OF 2-(5-(4-(2-MORPHOLINOETHOXY)PHENYL)PYRIDIN-2-YL)-N-BENZYLACETAMIDE ~71:ATHENEX HK INNOVATIVE LIMITED, Unit 608-613, IC Development Centre, No. 6 Science Park, West Avenue, Hong Kong Science Park, Sha Tin, New Territories, People's Republic of China ~72: SMOLINSKI, Michael P.~ 33:US ~31:62/555,390 ~32:07/09/2017

2021/06145 ~ Complete ~54:POLYMORPHIC FORMS OF A SUBSTITUTED-QUINOXALINE-TYPE BRIDGED-PIPERIDINE COMPOUND ~71:PURDUE PHARMA L.P., ONE STAMFORD FORUM, 201 TRESSER

BOULEVARD, STAMFORD, CT 06901-3431, USA, United States of America ~72: FUKUDA, Mayu;IGO, David;MIYAKE, Naoki;ORTIZ, Ronnie;TSUNO, Naoki~ 33:US ~31:62/799,710 ~32:31/01/2019

2021/06157 ~ Complete ~54:HOOKAH DEVICE ~71:ADALSIA LIMITED, Arch. Makariou III, 195 Neocleous House 3030, Limassol, Cyprus ~72: ARTYOM KHACHATRYAN;FRANK TYNESKI;GILBERT ALEXANDER;JACKSON HEDDEN;JOHN MICHAEL ELAM;MIKHAIL BROYAN~ 33:US ~31:62/815,167 ~32:07/03/2019;33:US ~31:62/929,273 ~32:01/11/2019

2021/06113 ~ Provisional ~54:PRO FLOORING ~71:E van Eeden, 23 Poortman street, South Africa ~72: F Joubert~

2021/06115 ~ Provisional ~54:ADVANCED CHARGE TRANSFER MEASUREMENT TECHNIQUES ~71:AZOTEQ HOLDINGS LIMITED, c/o Spyrou Kyprianou Avenue 20, Chapo Central, Cyprus ~72: BRUWER, Frederick Johannes;RADEMEYER, Daniel Barend~

2021/06114 ~ Provisional ~54:A VENT VALVE ~71:I-CAT INTERNATIONAL CONSULTING AND TRADING (PTY) LTD, N4 GATEWAY INDUSTRIAL PARK WEST, 38 AMATOLE ROAD, CRN. SOLOMON MAHLANGU DRIVE & amp; BRONKHORSTSPRUIT ROAD, WILLOW MANOR PARK X65, PRETORIA, South Africa ~72: ROTHMANN, David, Schalk;VAN DER MERWE, Antonie, Duminy;VAN ZYL, Stanley, Percy, Henry~

2021/06112 ~ Provisional ~54:AN AIR RELEASE VALVE INSTALLATION ~71:MILLER, James Douglas, Laughing Waters Farm, Munster, 4278, SOUTH AFRICA, South Africa ~72: MILLER, James Douglas~

2021/06131 ~ Complete ~54:BCMA MONOCLONAL ANTIBODY-DRUG CONJUGATE ~71:MedImmune, LLC, One MedImmune Way, GAITHERSBURG 20878, MD, USA, United States of America ~72: HURT, Elaine M.;KINNEER, Krista;TICE, David;VARKEY, Reena;XIAO, Xiaodong~ 33:US ~31:62/539,825 ~32:01/08/2017;33:US ~31:62/596,194 ~32:08/12/2017

2021/06117 ~ Complete ~54:METHOD FOR MEASURING CONTENT OF LILIUM BROWNII VAR. VIRIDULUM TOTAL SAPONINS ~71:Fu Chunyan, Meizijing Campus, Shaoyang University, Xueyuan Road, Daxiang Distric, Shaoyang City, Hunan Province, People's Republic of China;Pharmacy college of Shaoyang University, Pharmacy college of Shaoyang University, Xueyuan Road, Daxiang District, Shaoyang City, Hunan Province, People's Republic of China;The First Affiliated Hospital of Shaoyang University, First Affiliated Hospital of Shaoyang University, Tongheng Street, Shuangqing District, Shaoyang City, Hunan Province, People's Republic of China ~72: Feng Fen;Fu Chunyan;Liu Yonghui;Zeng Li~

2021/06127 ~ Complete ~54:PRODUCTION METHOD FOR PREPARING ELECTRONIC GRADE SULFURIC ACID BY UTILIZING NON-FERROUS SMELTING FLUE GAS ~71:MINSHAN ENVIRONMENTAL ENERGY HIGH TECH CO., LTD., NORTH ROAD, 200 METERS WEST OF INTERSECTION OF TAIHANG ROAD AND LONGKANG AVENUE, People's Republic of China ~72: HE, FULIANG;HE, ZHANYUAN;HE, ZHIJUN;LI, ZHIJUN;XU, GANG;ZHANG, HONGFU~

2021/06138 ~ Complete ~54:TRADITIONAL CHINESE MEDICINE COMPOSITION FOR ENHANCING IMMUNITY ~71:HANGZHOU SINO-AFRICA BIOTECHNOLOGY CO., LTD., WEST BUILDING-1, NO.340 WENHUI ROAD, XIACHENG DISTRICT, People's Republic of China ~72: JUN YAN;TIANYAO HU;XIAOHUA HU;YIYU XU~

2021/06147 ~ Complete ~54:ALTERNATIVE COMPOSITION AND ALTERNATIVE METHOD FOR EFFECTIVELY PHOSPHATING METAL SURFACES ~71:CHEMETALL GMBH, TRAKEHNER STRASSE 3, 60487 FRANKFURT, GERMANY, Germany ~72: CEGLAREK, Timo Christoph;WIETZORECK, Hardy~ 33:EP ~31:19154196.0 ~32:29/01/2019 2021/06121 ~ Complete ~54:AGRICULTURAL TIRE CROWN RUBBER AND PREPARATION METHOD THEREOF ~71:Xuzhou College of Industrial Technology, No.1 Xiangwang South Road, Gulou District, Xuzhou City, Jiangsu, People's Republic of China ~72: Cong Houluo;Li Jiansong;Li Peipei;Wang Zaixue;Wang Zhongguang;Xu Yunhui;Zang Yanan;Zhang Zhaohong;Zhao Guiying~

2021/06129 ~ Complete ~54:AIR HEATER ~71:BOSMAN DROËRS CC, De Kroon Ave 21, South Africa ~72: BUITENDAG, Johan;HURTER, Thomas Francois;VERRYNE, Hermanus Nikolaas~ 33:ZA ~31:2020/05481 ~32:03/09/2020;33:ZA ~31:2020/06919 ~32:06/11/2020

2021/06132 ~ Complete ~54:ARRANGEMENT AND SWITCHING DEVICE WITH CONTACTLESS CURRENT MEASURING CAPABILITY ~71:Eaton Intelligent Power Limited, Eaton House, 30 Pembroke Road, DUBLIN 4, IRELAND, Ireland ~72: DRÁBEK, Tomáš;GABRIEL, Adam;KRAMER, Jeremy~ 33:GB ~31:2013891.3 ~32:03/09/2020

2021/06144 ~ Complete ~54:METHOD FOR BREAKING DOWN A MIXTURE OF SOLID PARTICLES COMPRISING RUTHENIUM ~71:HERAEUS DEUTSCHLAND GMBH & CO. KG, HERAEUSSTRASSE 12-14, 63450 HANAU, GERMANY, Germany ~72: GÜNTHER, Magdalena;KRÖCKEL, Sophia;STETTNER, Martin~ 33:EP ~31:19159893.7 ~32:28/02/2019

2021/06146 ~ Complete ~54:A DEVICE AND A MEMBRANE PROCESS FOR SEPARATING GAS COMPONENTS FROM A GAS STREAM HAVING VARYING COMPOSITION OR FLOW RATE ~71:EVONIK CANADA INC., 3380 SOUTH SERVICE ROAD, BURLINGTON, ONTARIO L7N3J5, CANADA, Canada;EVONIK CORPORATION, 299 JEFFERSON ROAD, PARSIPPANY NJ 07054, USA, United States of America;EVONIK FIBRES GMBH, GEWERBEPARK 4, 4861 SCHÖRFLING AM ATTERSEE, AUSTRIA, Austria ~72: HOVING, Hendrik, Derk;KRUTZLER, Norbert;LEE, Kah Peng;PEDERSEN, Steven, Kristian;PRISKE, Markus~ 33:US ~31:62/800,168 ~32:01/02/2019

2021/06152 ~ Complete ~54:SOLUBLE COFFEE POWDER ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: COTTER, Daniel;DUPAS, Julien;FU, Xiaoping;MORA, Federico;ROBASZKIEWICZ, Aleksander~ 33:US ~31:62/801177 ~32:05/02/2019;33:EP ~31:19162736.3 ~32:14/03/2019

2021/06154 ~ Complete ~54:HEATER FOR A VAPOUR PROVISION SYSTEM ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: MOLONEY, Patrick~ 33:GB ~31:1903536.9 ~32:15/03/2019

2021/06162 ~ Complete ~54:EXTERNAL COOLING TEXTURE TURNING TOOL COMPONENT AND TURNING PROCESS SYSTEM FOR COUPLING NANOFLUID MINIMUM QUANTITY LUBRICANT WITH MICRO-TEXTURE TOOL ~71:NINGBO SANHAN ALLOY MATERIAL CO., LTD., No. 333, LianTang Road,Binhai Cixi Economic Development Zone, Ningbo, People's Republic of China;QINGDAO UNIVERSITY OF TECHNOLOGY, No. 777, Jialingjiang Road, Economic and Technological Development Zone, Qingdao, People's Republic of China ~72: CAO, Huajun;DIAO, Yuchen;HOU, Yali;JIA, Dongzhou;LI, Changhe;LI, Runze;LU, Bingheng;LUO, Huiming;LUO, Liang;WANG, Xiaoming;XU, Haizhou;YANG, Min;ZHANG, Yanbin~ 33:CN ~31:201910471330.1 ~32:31/05/2019

2021/06143 ~ Complete ~54:HIGH-ENERGY SOLAR PANEL FOR HIGH-ULTRAVIOLET (UV) WILDERNESS, AND MANUFACTURING METHOD THEREOF ~71:SHANDONG GUANGYUN INTELLIGENT TECHNOLOGY CO., LTD., Zhou Shu Han, Building 4, No. 907-10, China Railway Caizhi Center, 59 Industrial South Road, Gaoxin District, Jinan, Shandong, 250101, People's Republic of China ~72: Zhang Jing Min~ 33:CN ~31:201910615656.7 ~32:09/07/2019 2021/06159 ~ Complete ~54:ENTROPY CODING FOR VIDEO ENCODING AND DECODING ~71:INTERDIGITAL VC HOLDINGS, INC., 200 Bellevue Parkway, Suite 300, Wilmington, Delaware, 19809, United States of America ~72: FABRICE LELEANNEC;TANGI POIRIER;YA CHEN~ 33:EP ~31:19305279.2 ~32:11/03/2019

2021/06116 ~ Provisional ~54:LINEAR MOTION EXCITER ~71:MOHLALEFI (PTY) LTD., 18 Tongani Street, Bryanston Ext 45, Sandton, Gauteng, 2191, South Africa ~72: MARTIN NARE MASITISE~

2021/06122 ~ Complete ~54:A METHOD FOR SEPARATING HIGH-PURITY CAMELLIA SINENSIS FLOWER SAPONIN ~71:Hangzhou Yingshili Biotechnology Limited Company, No.96 Daguan Rd, Gongshu District, Hangzhou City, Zhejiang Province, 310015, People's Republic of China ~72: TU YOUYING;XIA CHEN~

2021/06155 ~ Complete ~54:GASIFICATION DEVICE AND PLASMA SHUTTER WITH A MICROWAVE PLAZMA SLOWING SYSTEM OF THE GASIFICATION DEVICE ~71:INING S.R.O., Podbabska 4, Czech Republic ~72: DANYLENKO, Anton;FISENKO, Petro;SLAVIK, Zbynek~ 33:EP ~31:19153643.2 ~32:25/01/2019

2021/06128 ~ Complete ~54:A METHOD FOR SELF-ADAPTIVE FEEDBACK LEARNING CONTROL OF ROBOT, WITH A CONTROLLER AND ROBOTS ~71:QILU UNIVERSITY OF TECHNOLOGY, No. 3501, Daxue Road, Changqing District, Jinan, People's Republic of China ~72: DENG, Lixia;LI, Yan;LIU, Haiying;WANG, Da;YAN, Zhiguo;ZHANG, Fangfang;ZHAO, Yang~ 33:CN ~31:202010896114.4 ~32:31/08/2020

2021/06120 ~ Complete ~54:A WATERPROOF TECHNOLOGY FOR THE EXTERIOR WALLS OF HUIZHOU TRADITIONAL BUILDINGS ~71:HuangShan University, No.39 Xihai Road, Tunxi District, HuangShan, Anhui, People's Republic of China ~72: Huang Guanjun;Huang Jian;Wu Rui~

2021/06136 ~ Complete ~54:AN EXHAUST SYSTEM ~71:COX POWERTRAIN LIMITED, The Cecil Pashley Building, 8 Cecil Pashley Way, Brighton City Airport, Lancing, Sussex, BN43 5FF, United Kingdom ~72: JAMES EATWELL~ 33:GB ~31:1811468.6 ~32:12/07/2018

2021/06130 ~ Complete ~54:GLYCAN-INTERACTING COMPOUNDS AND METHODS OF USE ~71:Seagen Inc., 21823 30th Drive S.E., BOTHELL 98021, WA, USA, United States of America ~72: BEHRENS, Jeffrey;DRANSFIELD, Daniel T.;EAVARONE, David A.;PRENDERGAST, Jillian M.~ 33:US ~31:62/254,278 ~32:12/11/2015;33:US ~31:62/274,572 ~32:04/01/2016;33:US ~31:62/287,666 ~32:27/01/2016;33:US ~31:62/293,989 ~32:11/02/2016;33:US ~31:62/345,515 ~32:03/06/2016;33:US ~31:62/382,835 ~32:02/09/2016

2021/06135 ~ Complete ~54:HIGH PRESSURE STOPE CLEANING WATERJET SYSTEM ~71:CES PUMPS & amp; PARTS (PTY) LTD, 23 Botha Street, Carletonville, 2499, South Africa ~72: TINUS COETZEE;TJAART HENDRIK COETZEE~ 33:ZA ~31:2020/06392 ~32:15/10/2020

2021/06142 ~ Complete ~54:HIGH-ENERGY LIGHT ABSORPTION AND CONVERSION MATERIAL FOR RADIATION PROTECTION IN HIGH-RISK AREAS, AND MANUFACTURING METHOD THEREOF ~71:SHANDONG GUANGYUN INTELLIGENT TECHNOLOGY CO., LTD., Zhou Shu Han, Building 4, No. 907-10, China Railway Caizhi Center, 59 Industrial South Road, Gaoxin District, Jinan, Shandong, 250101, People's Republic of China ~72: Zhang Jing Min~ 33:CN ~31:201910615090.8 ~32:09/07/2019

2021/06141 ~ Complete ~54:SOFT AND EASY-TO-CLEAN AUTOMOBILE COMPOSITE CENTER CONSOLE COVER WITH POWER GENERATION AND DEVELOPMENT FUNCTIONS, AND MANUFACTURING METHOD THEREOF ~71:SHANDONG GUANGYUN INTELLIGENT TECHNOLOGY CO., LTD., Zhou Shu Han, Building 4, No. 907-10, China Railway Caizhi Center, 59 Industrial South Road, Gaoxin District, Jinan, Shandong, 250101, People's Republic of China ~72: Zhang Jing Min~ 33:CN ~31:201910606286.0 ~32:05/07/2019 2021/06148 ~ Complete ~54:A LABEL ~71:DENNY BROS LIMITED, KEMPSON WAY, BURY ST EDMUNDS, SUFFOLK IP32 7AR, UNITED KINGDOM, United Kingdom ~72: DENNY, Andrew, Haig;DENNY, Graham, Dennis~ 33:GB ~31:1902514.7 ~32:25/02/2019

2021/06150 ~ Complete ~54:A MUSHROOM PACKAGING SYSTEM ~71:EDWARDS, Alan, C/O BUSINESS SOFTWARE & amp; SYSTEMS, 14B ALTONA ROAD EAST, BLARIS INDUSTRIAL ESTATE, LISBURN BT27 5QB, UNITED KINGDOM, United Kingdom;EDWARDS, Sharon, C/O BUSINESS SOFTWARE & amp; SYSTEMS, 14B ALTONA ROAD EAST, BLARIS INDUSTRIAL ESTATE, LISBURN BT27 5QB, UNITED KINGDOM, United Kingdom ~72: EDWARDS, Alan~ 33:GB ~31:1901444.8 ~32:01/02/2019

2021/06156 ~ Complete ~54:SYSTEMS AND METHODS FOR WEAPON AND DESTRUCTIVE DEVICE DETECTION BASED ON ELECTROMAGNETIC FIELD PROFILE ~71:TESSERACT SENSORS, LLC, 101 Gordon Street, Sanford, Florida, 32771, United States of America ~72: GREGORY ALTON HOLIFIELD;LAWRENCE EDWARD STALLMAN;PABLO JOSE PRADO;TIMOTHY ALTON HOLIFIELD~ 33:US ~31:62/797,341 ~32:27/01/2019

2021/06160 ~ Complete ~54:DRAWING-BOARD BACKPACK DUAL-USE GARMENT ~71:FENG, Yuzhang, 8, People's Republic of China;LI, Luying, 102, People's Republic of China ~72: FENG, Yuzhang;LI, Luying~ 33:CN ~31:201910070328.3 ~32:25/01/2019

2021/06118 ~ Complete ~54:PREPARATION METHOD AND APPLICATION OF CONDUCTING POLYMER NANOWIRE BIOSENSOR ~71:Qingdao Agricultural University, No. 700 Changcheng Road, Chengyang, Qingdao, Shandong, People's Republic of China ~72: Hui Ni;Wang Jiasheng~

2021/06134 ~ Complete ~54:A MULTI-FUNCTION ROUTING TOOL ~71:TSHWANE UNIVERSITY OF TECHNOLOGY, Building 20, Office 133 Staatsartillery Road, Pretoria, Gauteng, 0002, South Africa ~72: RUDOLPH FRANCOIS SNYMAN~ 33:ZA ~31:2020/05407 ~32:31/08/2020

2021/06140 ~ Complete ~54:MULTI-NODE OPTICAL FIBER FOR LONG-DISTANCE LIGHTING, AND MANUFACTURING METHOD THEREOF ~71:SHANDONG GUANGYUN INTELLIGENT TECHNOLOGY CO., LTD, Zhou Shu Han, Room 126, 30805, Block B, Century Fortune Center, West Side Of Xinyu Road, High-tech Zone, Jinan, Shandong, 250101, People's Republic of China ~72: Zhang Jing Min~ 33:CN ~31:201910464167.6 ~32:30/05/2019

2021/06228 ~ Complete ~54:FLANGING MACHINE ~71:JIANGSU YONGDA CHEMICAL EQUIPMENT CO.,LTD, LINGANG AVENUE, GAOGANG DISTRICT, People's Republic of China ~72: HUILONG LU;LIUJUN YU~ 33:CN ~31:202121389727.5 ~32:22/06/2021

2021/06161 ~ Complete ~54:ENCODING AND DECODING METHOD AND DEVICE, ENCODER SIDE APPARATUS AND DECODER SIDE APPARATUS ~71:Hangzhou Hikvision Digital Technology Co., Ltd., No.555 Qianmo Road, Binjiang District, HANGZHOU 310051, ZHEJIANG, CHINA (P.R.C.), People's Republic of China ~72: CHEN, Fangdong~ 33:CN ~31:201910182197.8 ~32:11/03/2019

2021/06124 ~ Complete ~54:AN INTEGRATED PLATFORM AND OPERATION PATTERN FOR THE CULTIVATION OF INTERNATIONAL LEGAL TALENTS ~71:Shandong Normal University, No.1 Daxue Road, Changqing District, Jinan, Shandong, People's Republic of China ~72: Xu Chengjin;Zhang Zhe~

2021/06361 ~ Provisional ~54:NATURES WONDER-PRODUCT-RANGE ~71:LOBOSTEMON FODISA PTY LTD, UNIT 10-D OLD DUTCH SQUARE BUILDING, 17 OLD PAARL ROAD, BELGRAVIA, BELLVILLE, South Africa ~72: DEON CLIFTON WILLIAMS~

- APPLIED ON 2021/08/26 -

2021/06210 ~ Provisional ~54:PLASTIC POLONY CONTAINER ~71:Thabo Elias Phahlamohlaka, 1439 Tambotie, 420 Lyeds Sreet, 14, South Africa ~72: Thabo Elias Phahlamohlaka~ 33:ZA ~31:SA20219632587 ~32:25/08/2021

2021/06169 ~ Provisional ~54:PERIOD PANTIES ~71:Danielle Flax, 94 11th Street, South Africa ~72: Danielle Flax~

2021/06172 ~ Provisional ~54:SECURITY BARRIERS ~71:GROENEWALD, Martin, 23 Constantia Road, Langeberg Village, South Africa ~72: GROENEWALD, Martin~

2021/06183 ~ Complete ~54:PROCESSING TECHNIQUE FOR PRODUCING RUBBER AUTO PARTS ~71:Xuzhou College of Industrial Technology, No.1 Xiangwang South Road, Gulou District, Xuzhou, Jiangsu, People's Republic of China ~72: Cong Houluo;Li Peipei;Liu Feng;Liu Taichuang;Song Shuaishuai;Xu Yunhui;Zang Yanan;Zhang Lin~

2021/06189 ~ Complete ~54:COMPOUNDS FOR INCREASING MHC-I EXPRESSION AND MODULATING HISTONE DEACETYLASE ACTIVITY ~71:CAVA HEALTHCARE INC., 1688 152nd St. Unit# 404, Canada ~72: ANDERSON, Ray;CHENG, Ping;DADA, Sarah;ELLIS, Samantha;JEFFERIES, Wilfred;NOHARA, Lilian;PFEIFER, Cheryl;WILLIAMS, David~ 33:US ~31:62/799,305 ~32:31/01/2019

2021/06171 ~ Provisional ~54:A SECURITY DEVICE ~71:RAS, Shaun, Adrian, 176 GALLEY ROAD, LEISURE BAY ESTATE, ERASMUS PARK, PRETORIA 0048, SOUTH AFRICA, South Africa ~72: RAS, Shaun, Adrian~

2021/06198 ~ Complete ~54:HINGE MODULE INCLUDING DETENT STRUCTURE AND FOLDABLE ELECTRONIC DEVICE INCLUDING THE HINGE MODULE ~71:SAMSUNG ELECTRONICS CO., LTD., 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea ~72: CHUNGKEUN YOO;HYUNGGEUN LEE;JONGMIN KANG;JONGYOON KIM;JUNGJIN KIM;SUMAN LEE~ 33:KR ~31:10-2019-0019560 ~32:19/02/2019;33:KR ~31:10-2019-0062226 ~32:28/05/2019

2021/06200 ~ Complete ~54:FLEXIBLE PHOTOVOLTAIC ASSEMBLY AND MANUFACTURING METHOD THEREFOR ~71:SUZHOU COOP&INNO GREEN ENERGY TECHNOLOGY CO., LTD., Building No. 3, No. 128, Linggang Road, Luzhi Town Wuzhong District Suzhou, Jiangsu, 215127, People's Republic of China;WUXI COOP&INNO GREEN ENERGY TECHNOLOGY CO., LTD., No. 299, Dongsheng Road, Donggang Town, Xishan District Wuxi, Jiangsu, 214000, People's Republic of China;WUXI DINGSENMAO TECHNOLOGY CO., LTD., No. 299, Dongsheng Road, Donggang Town, Xishan District Wuxi, Jiangsu, 214000, People's Republic of China ~72: AIBING TAO;GUOMING ZHANG;HUANHUAN ZHANG;JIA SHEN;YUJUN ZHANG~ 33:CN ~31:201910148605.8 ~32:28/02/2019

2021/06177 ~ Complete ~54:OBJECT TRACKING FOR WORK MACHINES ~71:CATERPILLAR INC., 100 NE Adams Street Peoria, United States of America ~72: HODEL, Benjamin J.;PANNALA, Vamsi Krishna;PAYNE, Nicholas;PETRANY, Peter~ 33:US ~31:17/014,697 ~32:08/09/2020

2021/06182 ~ Complete ~54:3 BETA-HYDROXY-5 ALPHA,8 ALPHA-EPIDIOXYANDROST-6-ENE-17-N-((3-PHENYL-4-(AROMATIC RING SUBSTITUTED)) THIAZOLE-2)-HYDRAZONE DERIVATIVES AND PREPARATION AND APPLICATION THEREOF ~71:Qiqihar Medical University, No.333, Bukui Street, Jianhua District, Qiqihar, Heilongjiang, People's Republic of China ~72: Bu Ming;Li Hongling;Lin Yu;Ma Yukun;Wang Haijun;Wang Jing~ 2021/06191 ~ Complete ~54:METHODS OF TREATING MULTIPLE MYELOMA ~71:SANOFI, 54 rue La Boétie, France ~72: AUDAT, Heloise;BONESTEBE, Audrey;CAMPANA ZAMBRANO, Frank;HUILLE, Sylvain;LE-GUENNEC, Solenn;MANACHE-ALBERICI, Lucie~ 33:US ~31:62/797,876 ~32:28/01/2019;33:US ~31:62/847,826 ~32:14/05/2019;33:US ~31:62/861,954 ~32:14/06/2019;33:US ~31:62/899,094 ~32:11/09/2019;33:US ~31:62/931,014 ~32:05/11/2019;33:EP ~31:19306554.7 ~32:03/12/2019

2021/06206 ~ Complete ~54:FERTILIZER PARTICLES COMPRISING IRON ~71:YARA UK LIMITED, Harvest House, Origin Way, United Kingdom ~72: HATHWAY, Laura;WARD, Stuart~ 33:GB ~31:1906390.8 ~32:07/05/2019

2021/06180 ~ Complete ~54:REMOTE PLANNING METHOD OF UNMANNED AERIAL VEHICLE AIR SAFETY CORRIDOR PATH ~71:Aerospace Information Research Institute(AIR), Chinese Academy of Sciences, No.9 Dengzhuang South Road, Haidian District, Beijing, People's Republic of China;Shandong University of Science and Technology, No.579 qianwangang Road, Huangdao District, Qingdao, Shandong, People's Republic of China ~72: Li Zhibin;Sun Chongshang;Wen Junchen;Zhang Jianqiang;Zhang Xiaojun~

2021/06184 ~ Complete ~54:A DIFFERENTIAL PRESSURE COMPRESSOR GAS LIFT WELLHEAD PRESSURE RELIEF DEVICE AND A PRESSURE RELIEF METHOD THEREOF ~71:Xi'an Langyi Software Technology Co., Ltd., Room 21012-2, Yuehan International, No.38 Jinye Road, High-tech Zone, Xi'an, Shaanxi, People's Republic of China ~72: Liu Xiaojuan~

2021/06190 ~ Complete ~54:DEOXY- CYTIDINE OR URIDINE DERIVATIVES FOR USE IN CANCER THERAPIES ~71:HEMISPHERIAN AS, Gaustadalleen 21, Norway ~72: PRIKRYLOVA, Terezia;ROBERTSON, Adam Brian~ 33:GB ~31:1901427.3 ~32:01/02/2019

2021/06168 ~ Provisional ~54:FEEDING MECHANISM FOR A VACUUM ARC THRUSTER ~71:HYPERNOVA SPACE TECHNOLOGIES (PTY) LTD, Suite 2I Arun Place Building 2, Old Sir Lowrys Pass Road, South Africa ~72: BEHRENS, Daniel Reid;LUN, Jonathan;TILLEMANS, Stephen Denis~

2021/06170 ~ Provisional ~54:DETERRENT SYSTEM ~71:BIRKIN, Christopher Malcolm, c/o AECI Limited, Patent & amp; Trade Mark Section, Private Bag X21, Gallo Manor, 2052, South Africa;KOEKEMOER, Andre Louis, c/o AECI Limited, Patent & amp; Trade Mark Section, Private Bag X21, Gallo Manor, 2052, South Africa ~72: BIRKIN, Christopher Malcolm;KOEKEMOER, Andre Louis~

2021/06193 ~ Complete ~54:METHODS OF CONTROLLING AN ELECTRICAL SYSTEM TO EXTINGUISH AN ELECTRIC ARC, AND ELECTRICAL SYSTEMS ~71:GE Energy Power Conversion Technology Ltd, Boughton Road, RUGBY CV21 1BU, WARWICKSHIRE, UNITED KINGDOM, United Kingdom ~72: BRÜCKNER, Thomas;GESKE, Martin;GLOES, Hendrik~ 33:EP ~31:18211124.5 ~32:07/12/2018

2021/06322 ~ Provisional ~54:HEALTH CAKE AND BAKED PRODUCTS ~71:SONJA ROETS, 40 COLCHESTER CRES PARKLANDS, South Africa ~72: SONJA ROETS~

2021/06181 ~ Complete ~54:PREPARATION METHOD OF MEAT-FLAVORED POTATO CHIPS ~71:Anhui Academy of Agricultural Sciences Institute of Fisheries, No 40, Nongke south Road, Luyang District, Hefei, Anhui, People's Republic of China;Anhui Engineering Research Center for Turtle Farming Technology, No 40, Nongke south Road, Luyang District, Hefei, Anhui, People's Republic of China;Anhui Special Aquaculture Demonstration International Science and Technology Cooperation Base, No 40, Nongke south Road, Luyang District, Hefei, Anhui, People's Republic of China;Ma'anshan Chunsheng Ecological Agriculture Co., Ltd, Qianzhuang Villiage, Jiashan Town, Yushan District, Ma'anshan, Anhui, People's Republic of China ~72: Chen Yaohu;Chen Zhu;Isagani P.Angeles Jr;Jiang Jingling;Jiang Yelin;K.R.Salin;Li Jie;Li Zhi;Mao Zaihua;Phyo Sandi;Somony Thay;Song Guangtong;Su Youfeng;Wang Fen;Wang Jiajia;Wang Ling;Wang Zechun;Wu Yuchun;Xu Bin;Xu Xiaona;Zhang Ye;Zhou Xiang;Zuo Lin~

2021/06173 ~ Provisional ~54:FLEXOGRAPHIC PRINTING ~71:PMD Dies & amp; Stereos Proprietary Limited, No. 4 Nebula Street, Labore, BRAKPAN 1541, Gauteng Province, SOUTH AFRICA, South Africa ~72: ZEVENBERGEN, LEON MARE (Deceased)~

2021/06176 ~ Complete ~54:CONVEYOR BELT TENSIONING ~71:Dale Holdings (Pty) Ltd, 41 Malta Street, Cosmo City Business Park, Cosmo City Ext 15, South Africa ~72: DALE, Christopher;KRIEL, Francois;SWEETING, Adam~ 33:ZA ~31:2020/05096 ~32:18/08/2020

2021/06186 ~ Complete ~54:VEHICLE BRAKE CONTROL SYSTEM AND METHOD ~71:Westinghouse Air Brake Technologies Corporation, 30 Isabella St., PITTSBURGH 15212, PA, USA, United States of America ~72: GAUGHAN, Edward W.;POTTER, William John~ 33:US ~31:63/070,898 ~32:27/08/2020;33:US ~31:17/397,776 ~32:09/08/2021

2021/06195 ~ Complete ~54:ATOMISER ENCLOSURE FOR A VAPOUR PROVISION SYSTEM ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: MOLONEY, Patrick~ 33:GB ~31:1903538.5 ~32:15/03/2019

2021/06207 ~ Complete ~54:ELECTROCALORIC ASSISTED INTERNAL COOLING TEXTURE TURNING TOOL AND NANOFLUID MINIMAL QUANTITY LUBRICATION INTELLIGENT WORKING SYSTEM ~71:NINGBO SANHAN ALLOY MATERIAL CO., LTD., No. 333, LianTang Road, Binhai Cixi Economic Development Zone, Ningbo, People's Republic of China;QINGDAO UNIVERSITY OF TECHNOLOGY, No. 777, Jialingjiang Road, Economic and Technological Development Zone, Qingdao, People's Republic of China ~72: CAO, Huajun;DIAO, Yuchen;HOU, Yali;JIA, Dongzhou;LI, Changhe;LI, Runze;LU, Bingheng;LUO, Huiming;LUO, Liang;WANG, Xiaoming;XU, Haizhou;YANG, Min;ZHANG, Yanbin~ 33:CN ~31:201910471347.7 ~32:31/05/2019

2021/06178 ~ Complete ~54:SELENIUM-RICH SILICON-CONTAINING FOLIAR INHIBITOR FOR INHIBITING HEAVY METALS IN RICE AND PREPARATION METHOD THEREOF ~71:Jiangxi Puruifeng Ecological Technology Co., LTD, 15th Floor, Building A, Jiangnan Yungang, Zhuqiao East Road, Qingyunpu District, Nanchang, Jiangxi, People's Republic of China ~72: Liu Yun;Wen Yangping~

2021/06196 ~ Complete ~54:COMPOSITION CONTAINING REFRIGERANT, AND REFRIGERATION METHOD USING SAID COMPOSITION, OPERATING METHOD FOR REFRIGERATION DEVICE, AND REFRIGERATION DEVICE ~71:DAIKIN INDUSTRIES, LTD., Umeda Center Building, 4-12, Nakazaki-Nishi 2-Chome, Kita-Ku, Osaka-shi, Osaka , 5308323, Japan ~72: AKIHITO MIZUNO;MITSUSHI ITANO;SHUN OHKUBO;TOMOYUKI GOTOU;YASUFU YAMADA;YUUKI YOTSUMOTO~ 33:JP ~31:2019-013979 ~32:30/01/2019;33:JP ~31:2019-115584 ~32:21/06/2019

2021/06204 ~ Complete ~54:PHARMACEUTICAL COMPOSITION COMBINING IMMUNOLOGIC AND CHEMOTHERAPEUTIC METHOD FOR THE TREATMENT OF CANCER ~71:RAMPART HEALTH, L.L.C., 6784 Lake Ellenor Drive, United States of America ~72: BOSTWICK, Brian Rafferty;BOSTWICK, David Granger~ 33:US ~31:62/812,703 ~32:01/03/2019

2021/06208 ~ Complete ~54:ULTRASONIC WIND SPEED SENSOR FOR DOWNHOLE COAL MINES ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, No. 168, Taifeng Street, Tianjiaan District, Huainan, People's Republic of China;HUAINAN SPECIAL EQUIPMENT SUPERVISION AND INSPECTION CENTER, Intersection Of Taikang Street And Huanhe Avenue, Tianjiaan District, Huainan, People's Republic of China ~72: CAI, Feng;LIU, Yang;YAN, Zhuo;ZHANG, Yu~ 33:CN ~31:201911092292.5 ~32:11/11/2019

2021/06192 ~ Complete ~54:FUSED TRICYCLIC COMPOUNDS USEFUL AS ANTICANCER AGENTS ~71:AstraZeneca AB, SÖDERTÄLJE 151 85, SWEDEN, Sweden ~72: BODNARCHUK, Michael Steven;BOYD, Scott;CASSAR, Doyle Joseph;KETTLE, Jason Grant;PHILLIPS, Christopher;PIKE, Kurt Gordon;SIMPSON, Iain;STEWARD, Oliver Ross~ 33:US ~31:62/813,885 ~32:05/03/2019;33:US ~31:62/951,146 ~32:20/12/2019

2021/06202 ~ Complete ~54:NANOSENSORS AND USE THEREOF ~71:NANOMOSAIC LLC, 12 Gill Street, Woburn, Massachusetts, 01801, United States of America ~72: JOHN BOYCE;JOSEPH WILKINSON;JOSHUA A RITCHEY;QIMIN QUAN~ 33:US ~31:62/811,041 ~32:27/02/2019;33:US ~31:62/811,543 ~32:28/02/2019;33:US ~31:62/811,559 ~32:28/02/2019;33:US ~31:62/811,579 ~32:28/02/2019

2021/06197 ~ Complete ~54:METHOD AND SYSTEM FOR INFORMING, ORGANIZING, TRANSPORTING, BOARDING AND ACCOMMODATING PASSENGERS IN AIRCRAFT, EQUIPMENT AND RELATED COMPUTER PROGRAMS ~71:RICARDO POCAI, Rua Coronel Pedro Pacheco, 950, CENTRO, 85530-000 Clevelândia - Paraná, Brazil ~72: RICARDO POCAI~

2021/06205 ~ Complete ~54:ANILINE-BASED WDR5 PROTEIN-PROTEIN INTERACTION INHIBITOR, METHOD FOR PREPARING THE SAME, AND USE THEREOF ~71:CHINA PHARMACEUTICAL UNIVERSITY, 639 Longmian Avenue, Jiangning Nanjing, People's Republic of China ~72: CHEN, Weilin;CHEN, Xin;GU, Jing;GUO, Xiaoke;JIANG, Zhengyu;LI, Dongdong;XU, Jun;XU, Xiaoli;YOU, Qidong~ 33:CN ~31:201910139980.6 ~32:26/02/2019

2021/06209 ~ Complete ~54:CR-NI TYPE AUSTENITIC HEAT-RESISTANT STEEL WITH IN-SITU PRECIPITATED REINFORCING PHASE, AND MANUFACTURING PROCESS AND USE THEREOF ~71:INSTITUTE OF NEW MATERIALS, GUANGDONG ACADEMY OF SCIENCES, No. 363 Changxing Road, Tianhe District, Guangdong Province, People's Republic of China ~72: LIU, Tianlong;LONG, Jun;LUO, Zhichao;WANG, Juan;ZHENG, Kaihong;ZHENG, Zhibin~ 33:CN ~31:201911333239.X ~32:19/12/2019

2021/06185 ~ Complete ~54:MODELING TROPICAL CYCLONE SURFACE FIELDS FOR IMPACT ASSESSMENT ~71:International Business Machines Corporation, New Orchard Road, ARMONK 10504, NY, USA, United States of America ~72: VOS, Etienne Eben;WATSON, Campbell D.;WELDEMARIAM, Komminist~ 33:US ~31:17/341,349 ~32:07/06/2021

2021/06187 ~ Complete ~54:SCREENING DEVICE FOR FIBER CROP SEEDS BEFORE SOWING ~71:HANGZHOU DAZHAN AGRICULTURAL DEVELOPMENT CO., LTD., No. 3, Hengpeng Road, Nanyang Street, People's Republic of China;HANGZHOU XIAOSHAN AGRICULTURAL (FORESTRY) TECHNOLOGY EXTENDED CENTER, No. 546, Xiaoran South Road, People's Republic of China;HANGZHOU XIAOSHAN AGRICULTURAL SCIENCE AND TECHNOLOGY RESEARCH INSTITUTE, No. 885, Tonghui South Road, People's Republic of China;ZHEJIANG FORESTRY TECHNOLOGY EXTENDED STATION, No. 226, Kaixuan Road, People's Republic of China;ZHEJIANG INSTITUTE OF GARDEN PLANTS AND FLOWERS (ZHEJIANG XIAOSHAN INSTITUTE OF COTTON & amp; BAST FIBER CROPS RESEARCH), No. 508, Cunwang Village, Wangcun, Youhu Line, Linpu Town, People's Republic of China ~72: AN, Xia;CHEN, Changli;HE, Zhen;HONG, Fuying;JIN, Guanrong;LI, Lufeng;LI, Wenlue;LIU, Tingting;LOU, Xuping;LUO, Xiahong;WANG, Xiang;XU, Yajun;YING, Jinyao;ZHOU, Huaping;ZHU, Guanlin~

2021/06194 ~ Complete ~54:FUNGICIDAL COMPOUNDS ~71:Syngenta Crop Protection AG, Rosentalstrasse 67, BASEL 4058, SWITZERLAND, Switzerland ~72: BOU HAMDAN, Farhan;HOFFMAN, Thomas James;QUARANTA, Laura;RENDINE, Stefano;WEISS, Matthias;WILLIAMS, Simon~ 33:GB ~31:1903942.9 ~32:22/03/2019

2021/06179 ~ Complete ~54:DISTRIBUTED AIRSHIP CONTROL SYSTEM ~71:Shandong University of Science and Technology, No.579 qianwangang Road, Huangdao District, Qingdao, Shandong, People's Republic of China ~72: Huang Diangang;Li Zhibin;Lin Jishuang;Tang Zhiyong;Zhang Qianghui~

2021/06203 ~ Complete ~54:RAPID DETECTION OF GENE FUSIONS ~71:ILLUMINA, INC., 5200 Illumina Way, United States of America ~72: CATREUX, Severine;DESHPANDE, Viraj;MEHIO, Rami;RODDEY, John Cooper;RUEHLE, Michael;SCHLESINGER, Johann Felix Wilhelm;TRUONG, Sean~ 33:US ~31:62/944,304 ~32:05/12/2019

2021/06174 ~ Provisional ~54:3 STAGE TAP WATER FILTER ~71:Gary Flax, 94 11th Street, South Africa ~72: Gary Flax~

2021/06188 ~ Complete ~54:METHOD FOR IMAGE RESTORATION UNDER CAUCHY NOISE AND USE THEREOF ~71:SHANDONG UNIVERSITY OF SCIENCE AND TECHNOLOGY, No.579 Qianwangang Road, Huangdao District, Qingdao, Shandong Province, 266510, People's Republic of China ~72: HAO, Binbin;LV, Haijun;WEI, Juan;ZHU, Jianguang~ 33:CN ~31:202011281361.X ~32:16/11/2020

2021/06199 ~ Complete ~54:HINGE MODULE AND FOLDABLE 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;JONGMIN KANG;JONGYOON KIM;JUNGJIN KIM;SUMAN LEE;SUNGKYU HWANG~ 33:KR ~31:10-2019-0019576 ~32:19/02/2019

2021/06201 ~ Complete ~54:LIGANDS FOR PRODUCTION OF 1-OCTENE IN CHROMIUM ASSISTED ETHYLENE OLIGOMERIZATION PROCESS ~71:SABIC GLOBAL TECHNOLOGIES B.V., Plasticslaan 1, 4612 PX, Bergen OP Zoom, Netherlands ~72: ABDULAZIZ AL-NEZARI;ILIA KOROBKOV;KHALID ALBAHILY;MAHER AL-DAJANE~ 33:US ~31:62/820,437 ~32:19/03/2019

2021/06229 ~ Complete ~54:MANAGEMENT SYSTEM AND METHOD ~71:JOHANNES BRITS BOSCH, 136 IRIS STREET, PANORAMA ESTATE, RANGEVIEW EXT 4, South Africa ~72: JOHANNES BRITS BOSCH~ 33:ZA ~31:2018/05766 ~32:28/02/2019

- APPLIED ON 2021/08/27 -

2021/06260 ~ Complete ~54:MICROENCAPSULATED ACETAMIDE HERBICIDES ~71:Monsanto Technology LLC, 800 North Lindbergh Boulevard, ST LOUIS 63167, MO, USA, United States of America ~72: DENG, Wenjin;FRIEDMAN, Todd;HEMMINGHAUS, John W.;THATIPARTI, Thimmareddy;ZHANG, Junhua~ 33:US ~31:62/798,835 ~32:30/01/2019

2021/06248 ~ Complete ~54:HUMAN CARBONIC ANHYDRASE 2 COMPOSITIONS AND METHODS FOR TUNABLE REGULATION ~71:Obsidian Therapeutics, Inc., 1030 Massachusetts Avenue, Suite 400, CAMBRIDGE 02138, MA, USA, United States of America ~72: DOLINSKI, Brian;ELPEK, Kutlu Goksu;EZELL, Tucker;FLEURY, Michelle Lois;GORI, Jennifer Leah;HELLER, Scott Francis;INNISS, Mara Christine;KULKARNI, Abhishek;OLINGER, Grace Y.;OLS, Michelle Lynn;RICHARDSON, Celeste;SCHEBESTA, Michael;SETHI, Dhruv Kam;SUN, Dexue;SURI, Vipin;WEISMAN, Elizabeth Jane~ 33:US ~31:62/815,399 ~32:08/03/2019;33:US ~31:62/815,402 ~32:08/03/2019;33:US ~31:62/826,443 ~32:29/03/2019;33:US ~31:62/826,487 ~32:29/03/2019;33:US ~31:62/835,548 ~32:18/04/2019;33:US ~31:62/835,552 ~32:18/04/2019;33:US ~31:62/860,388 ~32:12/06/2019

2021/06325 ~ Provisional ~54:LINK PLANTING DEVICE AND METHOD FOR PLANTING ~71:MICHAEL WILLIAM WHITBREAD, 1A Parkhurst, South Africa ~72: Michael William WHITBREAD~

2021/06337 ~ Complete ~54:CRYSTALLINE AND AMORPHOUS FORMS OF N-(5-((4-ETHYLPIPERAZIN-1-YL)METHYL)PYRIDINE-2-YL)-5-FLUORO-4-(3-ISOPROPYL-2-METHYL-2H-INDAZOL-5-YL)PYRIMIDIN-2-AMINE AND ITS SALTS, AND PREPARATION METHODS AND THERAPEUTIC USES THEREOF ~71:BETA PHARMA, INC., 1000 N. West Street, United States of America ~72: COSTANZO, Michael, John;GRECO, Michael, Nicholas;PENG, Jirong;ZHANG, Don~ 33:US ~31:62/821,141 ~32:20/03/2019

2021/06247 ~ Complete ~54:AEROSOL PROVISION DEVICE ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: ABI AOUN, Walid;BLANDINO, Thomas Paul;BUCKLAND, Elizabeth;HEPWORTH, Richard John;SAYED, Ashley John;WARREN, Luke James;WOODMAN, Thomas Alexander John~ 33:GB ~31:1903240.8 ~32:11/03/2019;33:GB ~31:1903253.1 ~32:11/03/2019;33:US ~31:62/816,255 ~32:11/03/2019;33:US ~31:62/816,339 ~32:11/03/2019

2021/06255 ~ Complete ~54:PROCESS FOR PREPARING POLYMERIC SECURITY ARTICLES ~71:KBA-NotaSys SA, Avenue du Grey 55, LAUSANNE 1018, SWITZERLAND, Switzerland ~72: BLESOVSKY, Michael;SCHAEDE, Johannes;STEWART, Robert~

2021/06360 ~ Provisional ~54:ELECTRONIC PARCEL COUNTER ~71:XHINYUWANI CONCEPTS PTY (LTD), 117 SEBORA, MASHASHANE, South Africa ~72: XHINYUKANI BARRENT NGOBENI~

2021/06225 ~ Complete ~54:PRECISE FEEDING CONTROL SYSTEM AND METHOD BASED ON SHRIMP POND FEEDING BOAT ~71:Shanghai Ocean University, No.999, Huchenghuan Rd, Nanhui New City, Shanghai, People's Republic of China ~72: Hu Qingsong;Wu Di;Ye Jiemin;Zhang Lizhen~

2021/06234 ~ Complete ~54:POWDERY MILDEW RESISTANT CANNABIS PLANTS ~71:BETTERSEEDS LTD, 54 Birkat Am Street, POB 46 , Givat Chen, 4390500, Israel ~72: IDO MARGALIT;SHIRA COREM;TAL SHERMAN~ 33:US ~31:62/809,584 ~32:23/02/2019

2021/06235 ~ Complete ~54:MIXER HAVING A CLOSING COVER ~71:MASCHINENFABRIK GUSTAV EIRICH GMBH & amp; CO. KG, Walldürner Straße 50, 74736, Hardheim, Germany ~72: ANDREAS SEILER~ 33:DE ~31:10 2019 108 869.0 ~32:04/04/2019

2021/06239 ~ Complete ~54:PROTEIN HYDROLYSATES WITH INCREASED YIELD OF N-TERMINAL AMINO ACID ~71:DUPONT NUTRITION BIOSCIENCES APS, Langebrogade 1, DK1411, Copenhagen K, Denmark ~72: HELONG HAO;KARSTEN MATTHIAS KRAGH;MARC ANTON BERNHARD KOLKMAN;PETER EDVARD DEGN;ROBIN ANTON SORG;STEFFEN YDE BAK;SVEND HAANING;XIAOGANG GU;XINYUE TANG~ 33:CN ~31:PCT/CN2019/076018 ~32:25/02/2019

2021/06241 ~ Complete ~54:USE OF COMPOSITION CONTAINING CDK4/6 INHIBITOR IN COMBINATION WITH ANASTROZOLE IN PREPARATION OF MEDICAMENT FOR TREATING TUMOR DISEASES ~71:JIANGSU HENGRUI MEDICINE CO., LTD., NO. 7 KUNLUNSHAN ROAD, ECONOMIC AND TECHNOLOGICAL DEVELOPMENT ZONE LIANYUNGANG, JIANGSU 222047, CHINA, People's Republic of China ~72: LI, Guorong;ZHU, Xiaoyu;ZOU, Jianjun~ 33:CN ~31:201910089738.2 ~32:30/01/2019;33:CN ~31:201910339438.5 ~32:25/04/2019;33:CN ~31:201910516489.0 ~32:14/06/2019;33:CN ~31:201910620303.6 ~32:10/07/2019;33:CN ~31:201910907616.X ~32:24/09/2019

2021/06244 ~ Complete ~54:IMAGE SIGNAL REPRESENTING A SCENE ~71:Koninklijke Philips N.V., High Tech Campus 52, EINDHOVEN 5656 AG, THE NETHERLANDS, Netherlands ~72: BRULS, Wilhelmus Hendrikus Alfonsus;KROON, Bart;VAREKAMP, Christiaan~ 33:EP ~31:19154195.2 ~32:29/01/2019

2021/06252 ~ Complete ~54:METHOD AND APPARATUS FOR AFFINE BASED INTER PREDICTION OF CHROMA SUBBLOCKS ~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;SOLOVYEV, Timofey Mikhailovich~ 33:US ~31:62/809,551 ~32:22/02/2019;33:US ~31:62/823,653 ~32:25/03/2019;33:US ~31:62/824,302 ~32:26/03/2019

2021/06253 ~ Complete ~54:JAK1 SELECTIVE 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 ~31:2019/083376 ~32:19/04/2019

2021/06251 ~ Complete ~54:METHODS OF ENHANCING BIOMASS IN A PLANT THROUGH STIMULATION OF RUBP REGENERATION AND ELECTRON TRANSPORT ~71:University of Essex Enterprises Limited, Wivenhoe Park, COLCHESTER CO4 3SQ, COUNTY OF ESSEX, UNITED KINGDOM, United Kingdom ~72: LÓPEZ-CALCAGNO, Patricia E.;LAWSON, Tracy;RAINES, Christine A.~ 33:US ~31:62/821,786 ~32:21/03/2019

2021/06214 ~ Provisional ~54:APPARATUS FOR IMPROVED CLEANING USING MICROWAVE ENERGY ~71:MICROWAVE SOLUTIONS GMBH, Chrischonaweg 99,, Switzerland ~72: ROSSOUW, MATHYS JOHANNES~

2021/06219 ~ Complete ~54:IRRIGATION DEVICE FOR AGRICULTURAL PLANTING IN GREENHOUSE ~71:QINGDAO AGRICULTURAL UNIVERSITY, No.700 Changcheng Road, Chengyang District, Qingdao City, People's Republic of China ~72: BAI, Xuefeng;BI, Caihong;DING, Zhaotang;HAO, Fengqi;LI, Li;LIU, Gang;MA, Dexin;MA, Jian;MENG, Fanjia;WANG, Jiguo;YUN, Yuliang;ZHANG, Jian;ZHANG, Miao;ZHANG, Qun~

2021/06227 ~ Complete ~54:METHOD AND DEVICE FOR ANALYZING DATA OF TIME-SERIES LITERATURE BASED ON DYNAMIC NETWORK ANALYSIS ~71:Qilu University of Technology, No.3501, Daxue Road, Changqing District, Jinan, Shandong, People's Republic of China ~72: Jing Ming;Liu Yunjing;Wang Xiaoxiao;Zhang Li~

2021/06231 ~ Complete ~54:TREATMENT OF SKIN LESIONS AND PRURITUS IN PRURIGO NODULARIS PATIENTS ~71:CHUGAI SEIYAKU KABUSHIKI KAISHA, 5-1, Ukima 5-chome, Kita-ku Tokyo, Tokyo, Japan;GALDERMA HOLDING SA, Rue d'Entre-deux-Villes, 10 La Tour-de-Peilz, Switzerland ~72: PIKETTY, Christophe~ 33:US ~31:62/797,803 ~32:28/01/2019;33:US ~31:62/809,404 ~32:22/02/2019

2021/06240 ~ Complete ~54:METHOD FOR REDUCING LACTOSE AT HIGH TEMPERATURES ~71:DUPONT NUTRITION BIOSCIENCES APS, Langebrogade 1, DK1411, Copenhagen K, Denmark ~72: CRISTINA BONGIORNI;JACOB FLYVHOLM CRAMER;KARINA HANSEN KJAER;TINA KROGH JENSEN;TOMOHARU SATO~ 33:US ~31:62/811,722 ~32:28/02/2019

2021/06246 ~ Complete ~54:MACROCYCLIC COMPOUNDS ~71:Zeno Management, Inc., 10835 Road to the Cure, Suite 205, SAN DIEGO 92121, CA, USA, United States of America ~72: ABRAHAM, Sunny;BOGA, Sobhana Babu;BOREN, Brant Clayton;BUNKER, Kevin Duane;HUANG, Peter Qinhua;JIANG, Wanlong;PALIWAL, Sunil;ZHANG, Junhu~ 33:US ~31:62/815,508 ~32:08/03/2019

2021/06212 ~ Provisional ~54:A VOTING SYSTEM ~71:SKOTIALM (PTY) LTD, 1558 BLOCK H, SOSHANGUVE, South Africa ~72: MABASO, Nkhensani~

2021/06216 ~ Complete ~54:AEROSOL DELIVERY DEVICE INCLUDING A HOUSING AND A COUPLER ~71:RAI STRATEGIC HOLDINGS, INC., 401 North Main Street, United States of America ~72: DAVIS, Michael F.;MINSKOFF, Noah M.;PHILLIPS, Percy D.;WATSON, Nicholas H.~ 33:US ~31:14/981,051 ~32:28/12/2015

2021/06222 ~ Complete ~54:MEDICAL IMAGE FUSION METHOD BASED ON NSST AND IMPROVED ADAPTIVE PCNN ~71:Xidian University, 266 Xinglong Section of Xifeng Road, Xi'an, Shaanxi, People's Republic of China ~72: Cui Xiaoxuan;Feng Haonan;Li Runxin;Meng Fanjie;Wang Yanlong~

2021/06243 ~ Complete ~54:ANTIBODIES AND CHIMERIC ANTIGEN RECEPTORS SPECIFIC FOR RECEPTOR TYROSINE KINASE LIKE ORPHAN RECEPTOR 1 (ROR1) ~71:Juno Therapeutics, Inc., 400 Dexter Avenue N., Suite 1200, SEATTLE 98109, WA, USA, United States of America ~72: AMIN, Rupesh;BAILEY, Jenna;BEDI, Samriti;BELMONT, Brian;CHEN, Aye;COSTA, Andreia;GOLDFLESS, Stephen Jacob;HAUSKINS, Collin;JEFFERY, Eric;JIANG, Yue;OH, Yeonjoo;SIERRA, Catherine;WILLIAMS, Madeline~ 33:US ~31:62/798,456 ~32:29/01/2019

2021/06256 ~ Complete ~54:PROCESS FOR PREPARING POLYMERIC SECURITY ARTICLES ~71:KBA-NotaSys SA, Avenue du Grey 55, LAUSANNE 1018, SWITZERLAND, Switzerland ~72: BLESOVSKY, Michael;SCHAEDE, Johannes;STEWART, Robert~

2021/06258 ~ Complete ~54:POLYMERIC SECURITY ARTICLES ~71:KBA-NotaSys SA, Avenue du Grey 55, LAUSANNE 1018, SWITZERLAND, Switzerland ~72: BLESOVSKY, Michael;SCHAEDE, Johannes;STEWART, Robert~

2021/06226 ~ Complete ~54:URINARY CATHETER ~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 Lianxin;Huang Xiaozhen;Wang Jianyuan~

2021/06242 ~ Complete ~54:DEVICE AND METHOD FOR PREPARING MIXED ICE-GLAZING SOLUTION ~71:SHANGHAI OCEAN UNIVERSITY, Huchenghuan Road 999, Pudong District, Shanghai , 201306, People's Republic of China ~72: LI, Jianrong;TAN, Mingtang;WANG, Jinfeng;WANG, Xuesong;XIE, Jing;YU, Wenhui~ 33:CN ~31:201910780365.3 ~32:22/08/2019

2021/06218 ~ Complete ~54:ELONGATED SHEET FOR COVERING CULTIVATED PLANTS ~71:DAIOS, Asterios, F. Kokkinou 22A, Greece ~72: DAIOS, Asterios;DAIOS, Dimitrios~ 33:EP ~31:20 210 283.6 ~32:27/11/2020

2021/06211 ~ Provisional ~54:HERBAL PRODUCT FOR TREATMENT OF COVID-19 ~71:MAHAPA, Molatelo Joyce, SHM11 SH MAC, Stellenburg Rd, EQUESTRIA, Pretoria 0184, Gauteng Province, SOUTH AFRICA, South Africa;MATHLO, Steven, 1365A Meadowlands, Zone 09, Soweto, Johannesburg 1752, Gauteng, SOUTH AFRICA, South Africa;MOGALE, Matome Linkie, Makanye, Stand no. 107, Mankweng, Polokwane 0727, Limpopo, SOUTH AFRICA, South Africa;MOGALE, Mogale Candlish, Makanye, Stand no. 107, Mankweng, Polokwane 0727, Limpopo, SOUTH AFRICA, South Africa;MOGALE, South Africa;MOGALE, Sewela Anastacia, Makanye, Stand no. 107, Mankweng, Polokwane 0727, Limpopo, SOUTH AFRICA, South Africa;SETHUSHA, Kgomotso, 2 Ouhout, Van Dalen Rd, RUIMSIG, Johannesburg 1724, Gauteng Province, SOUTH AFRICA, South Africa ~72: MAHAPA, Molatelo Joyce;MATHLO, Steven;MOGALE, Matome Linkie;MOGALE, Mogale Candlish;MOGALE, Sewela Anastacia;SETHUSHA, Kgomotso~

2021/06236 ~ Complete ~54:N-ACYL-{4-[(4-ARYL-PHENYL)SULFONYLMETHYL]PIPERIDINE} COMPOUNDS AND THEIR THERAPEUTIC USE ~71:MODERN BIOSCIENCES LIMITED, The Walbrook Building, 25 Walbrook, London, Greater London, EC4N 8AF, United Kingdom ~72: LISA PATEL;STEPHEN ALLAN SMITH;STEPHEN PAUL COLLINGWOOD~ 33:GB ~31:1905520.1 ~32:18/04/2019

2021/06250 ~ Complete ~54:THERAPEUTIC USES OF DULAGLUTIDE ~71:Eli Lilly and Company, Lilly Corporate Center, INDIANAPOLIS 46206-6288, IN, USA, United States of America ~72: RIESMEYER, Jeffrey S.;WOODWARD, David Bradley~ 33:US ~31:62/829,717 ~32:05/04/2019

2021/06338 ~ Complete ~54:RAPIDLY IMPROVING ENDOTHELIAL FUNCTION, REDUCING ARTERIAL STIFFNESS AND REVERSING CALCIFICATION OF BLOOD VESSELS BY ADMINISTERING VITAMIN K ~71:KAYDENCE PHARMA AS, Lilieakerveien 2B 2083, Norway ~72: BAR, Anna;CHLOPICKI, Stefan;MARESZ, Katarzyna~ 33:US ~31:62/816,499 ~32:11/03/2019

2021/06223 ~ Complete ~54:PUMP FOR PREVENTING CLOGGING AND THROMBOSIS AFTER TUBE SEALING OF INDWELLING NEEDLE AND WORKING METHOD THEREOF ~71:Weifang Medical University, No. 7166, Baotong West Street, Weifang City, Shandong Province, 261053, People's Republic of China ~72: Meiyan Sun;Xiaoyong Zhao~

2021/06237 ~ Complete ~54:PREPARATION AND STORAGE OF LIPOSOMAL RNA FORMULATIONS SUITABLE FOR THERAPY ~71:BIONTECH SE, An der Goldgrube 12, 55131, Mainz, Germany ~72: HEINRICH HAAS;SEBASTIAN HÖRNER;THOMAS MICHAEL HILLER~ 33:EP ~31:PCT/EP2019/058635 ~32:05/04/2019

2021/06254 ~ Complete ~54:A PROCESS FOR PREPARATION OF SUPERABSORBENT POLYMER ~71:UPL LTD, Agrochemical Plant, Durgachak, Midnapore Dist., HALDIA 721 602, WEST BENGAL, INDIA, India ~72: KINI, Prashant Vasant;TALATI, Paresh Vithaldas~ 33:IN ~31:201931003588 ~32:29/01/2019

2021/06261 ~ Complete ~54:METHODS OF TREATING PROSTATE CANCER BASED ON MOLECULAR SUBTYPES ~71:Janssen Pharmaceutica NV, Turnhoutseweg 30, BEERSE B-2340, BELGIUM, Belgium ~72: CLEMENTE, Aguilar;GORMLEY, Michael;THOMAS, Shibu~ 33:US ~31:62/799,036 ~32:30/01/2019;33:US ~31:62/799,037 ~32:30/01/2019;33:US ~31:62/801,609 ~32:05/02/2019;33:US ~31:62/801,610 ~32:05/02/2019;33:US ~31:62/824,968 ~32:27/03/2019;33:US ~31:62/825,001 ~32:27/03/2019;33:US ~31:62/938,318 ~32:20/11/2019

2021/06249 ~ Complete ~54:MULTIPIECE ROAD WHEEL ~71:Hutchinson, Inc., 250 Ewing Street, TRENTON 08609, NJ, USA, United States of America ~72: HARTMAN, Michael;HOBE, Peter;NOBLANC, Olivier;RENSON, Christopher;RESARE, Lars Johan~

2021/06326 ~ Provisional ~54:HEMICELLULOSE EXTRACTION METHOD AND USE ~71:COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH, Meiring Naudé Road, South Africa ~72: Bruce Sithole;Jonas K Johakimu~

2021/06257 ~ Complete ~54:PROCESS FOR PREPARING POLYMERIC SECURITY ARTICLES ~71:KBA-NotaSys SA, Avenue du Grey 55, LAUSANNE 1018, SWITZERLAND, Switzerland ~72: BLESOVSKY, Michael;SCHAEDE, Johannes;STEWART, Robert~

2021/06230 ~ Complete ~54:MAGNETIC FLOORING SYSTEM ADHESIVE COMPOSITION ~71:!OBAC LIMITED, UNIT 9, BERRY COURT FARM, BRAMLEY ROAD, LITTLE LONDON, TADLEY RG26 5AT, UNITED KINGDOM, United Kingdom ~72: ROOSEN, Peter Paul;~

2021/06238 ~ Complete ~54:ROTARY DISC FILTER HAVING BACKWASH GUIDES ~71:VEOLIA WATER SOLUTIONS & amp; TECHNOLOGIES SUPPORT, Immeuble L'Aquarene, 1 place Montgolfier, 94417, Saint-Maurice, France ~72: EMIL SVENSSON;FILIP THYSELL;JOHAN GUSTAV ALEXANDER JIBERT;PER LARSSON~ 33:US ~31:16/293,772 ~32:06/03/2019

2021/06245 ~ Complete ~54:MEDICATION DELIVERY SYSTEMS AND METHODS ~71:Eli Lilly and Company, Lilly Corporate Center, INDIANAPOLIS 46285, IN, USA, United States of America ~72: ARNETT, Jaime Ray;SNOW, Andrew Thomas~ 33:US ~31:62/826,093 ~32:29/03/2019 2021/06259 ~ Complete ~54:ANTI-ANDROGENS FOR THE TREATMENT OF METASTATIC CASTRATION-SENSITIVE PROSTATE CANCER ~71:Aragon Pharmaceuticals, Inc., 10990 Wilshire Blvd, Suite 300, LOS ANGELES 90024, CA, USA, United States of America ~72: YU, Margaret K.~ 33:US ~31:62/798,836 ~32:30/01/2019;33:US ~31:62/803,096 ~32:08/02/2019;33:US ~31:62/822,312 ~32:22/03/2019;33:US ~31:62/833,371 ~32:12/04/2019;33:US ~31:62/836,920 ~32:22/04/2019;33:US ~31:62/901,694 ~32:17/09/2019

2021/06217 ~ Complete ~54:ELONGATED SHEET FOR COVERING CULTIVATED PLANTS ~71:DAIOS, Asterios, F. Kokkinou 22A, Greece ~72: DAIOS, Asterios;DAIOS, Dimitrios~ 33:EP ~31:20 210 289.3 ~32:27/11/2020

2021/06220 ~ Complete ~54:SOLID FORMULATIONS OF ATORVASTATIN AND EZETIMIBE ~71:ELPEN S.A. Pharmaceutical Industry, 95, Marathonos Avenue, PIKERMI 190 09, ATTICA, GREECE, Greece ~72: BAGOURAKIS, Georgios;PENTAFRAGKA, Ergina Ilia~ 33:GR ~31:20200100723 ~32:14/12/2020

2021/06224 ~ Complete ~54:WATER-RETAINING AND SLOW-RELEASE COMPOUND 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;Shi Yan;Xu Yunshuo~

2021/06232 ~ Complete ~54:EMULSIFIER AND EMULSIONS ~71:SULNOX GROUP PLC, 10 Orange Street, Haymarket London, United Kingdom ~72: REDMAN, James~ 33:GB ~31:1903169.9 ~32:08/03/2019

2021/06215 ~ Provisional ~54:SAFETY AND CONTROL DEVICE ~71:VAN ASWEGEN, Hendrik Willem Troskie, Heuwelsig 14, South Africa;VAN DER MERWE, Willem Johannes Jacobus, Heuwelsig 14, South Africa ~72: VAN ASWEGEN, Hendrik Willem Troskie~

2021/06336 ~ Complete ~54:PHARMACEUTICAL COMPOSITION CONTAINING ACETOMINOPHEN AND IBUPROFEN ~71:AFT PHARMACEUTICALS LIMITED, Level 1, 129 Hurstmere Road PO Box 33-203 Takapuna, New Zealand ~72: CALLAHAN, Matt;MURPHY, Maura~ 33:US ~31:16/287,836 ~32:27/02/2019

2021/06213 ~ Provisional ~54:SPINAL IMPLANTS ~71:ORTHO-CENTRIC INNOVATIONS (PTY) LTD, 3 JAMAICAN MUSIC, MOOIKLOOF EQUESTRIAN ESTATE, PRETORIA EAST, 0059, SOUTH AFRICA, South Africa ~72: O'TOOLE, John, James~

2021/06233 ~ Complete ~54:METHOD OF IMPROVING SLEEP ~71:POLYMEROPOULOS, Mihael, 10627 River's Bend Lane, United States of America;SMIESZEK, Sandra, 1414 22nd Street NW #4, United States of America;VANDA PHARMACEUTICALS INC., 2200 Pennsylvania Ave NW, Suite 300-E,, United States of America ~72: POLYMEROPOULOS, Mihael;SMIESZEK, Sandra~ 33:US ~31:62/805,057 ~32:13/02/2019

2021/06221 ~ Complete ~54:THE MANUFACTURING METHOD AND APPLICATION OF CL BAMBOO-WOOD COMPOSITE STRUCTURE MATERIAL ~71:Hunan City University, 518 Yingbin East Road, Heshan District, Yiyang, Hunan, People's Republic of China ~72: Chen Qiang;Duan Xianli;Wang Jiejun;Wang Xinzhong;Wu Bin;Xiong Jun;Yin Canbin;Yu Fang~

- APPLIED ON 2021/08/30 -

2021/06267 ~ Complete ~54:APPARATUS AND METHOD FOR SPRAY DRYING ~71:Spraying Systems Co., North Avenue and Schmale Road, P.O. Box 7900, WHEATON 60187-7901, IL, USA, United States of America ~72: ACKERMAN, Thomas E.;BARNES, Christopher W.;BRIGHT, Adam C.;HUFFMAN, David C.;KOCSIS, Scott

J.;ROSKOS, Kristopher E.;SMITH, Brian K.;ST. PETER, Glenn R.;SZCZAP, Joseph P.;THÉNIN, Michel R.~ 33:US ~31:62/250,318 ~32:03/11/2015

2021/06282 ~ Complete ~54:AN ADJUSTABLE PILLOW INSERT ~71:MARSH, Richard, 11 Laventel Avenue, Weltevreden Park, South Africa;MARSH, Sharee, 11 Laventel Avenue, Weltevreden Park, South Africa ~72: MARSH, Richard;MARSH, Sharee~ 33:ZA ~31:2020/05331 ~32:27/08/2020

2021/06295 ~ Complete ~54:WEAR ASSEMBLY FOR EARTH WORKING EQUIPMENT ~71:ESCO Group LLC, 2141 NW 25th Avenue, PORTLAND 97210-2578, OR, USA, United States of America ~72: HERNANDEZ, Abram; JOHNSTON, Christopher A.; MERAZ-TORRES, Yesenia~ 33:US ~31:62/803,317 ~32:08/02/2019

2021/06307 ~ Complete ~54:VAPOR DISTRIBUTOR FOR A MASS TRANSFER COLUMN AND METHOD INVOLVING SAME ~71:KOCH-GLITSCH, LP, 4111 E. 37th Street, North Wichita, Kansas, 67220, United States of America ~72: IZAK NIEUWOUDT;MALCOLM TALBOT~ 33:US ~31:62/822,397 ~32:22/03/2019;33:US ~31:62/903,942 ~32:23/09/2019

2021/06262 ~ Provisional ~54:HEARING AID ~71:DANIEL, Robert Rainey, 66B Third Ave, Inanda, South Africa ~72: DANIEL, Robert Rainey~

2021/06265 ~ Complete ~54:COMPOSITIONS AND METHODS FOR INHIBITING GENE EXPRESSION OF LPA ~71:Arrowhead Pharmaceuticals, Inc., 177 East Colorado Boulevard, Suite 700, PASADENA 91105, CA, USA, United States of America ~72: ALMEIDA, Aaron;ALMEIDA, Lauren J.;KANNER, Steven;LEWIS, David L.;LI, Zhen;MELQUIST, Stacey;PEI, Tao;ROZEMA, David B.;TRUBETSKOY, Vladimir S.;WAKEFIELD, Darren H.~ 33:US ~31:62/235,816 ~32:01/10/2015;33:US ~31:62/346,304 ~32:06/06/2016;33:US ~31:62/383,221 ~32:02/09/2016

2021/06278 ~ Complete ~54:A TRANSPLANTING DEVICE FOR SUBMERGED MACROPHYTES ~71:ENVIRONMENTAL HORTICULTURE RESEARCH INSTITUTE OF GUANGDONG ACADEMY OF AGRICULTURAL SCIENCES, No. 1, Jinying East First Street, Tianhe District, Guangzhou, People's Republic of China ~72: CHEN, Jinfeng;QIN, Hongjie;WANG, Dairong;WU, Haoping;YANG, Siyu;YOU, Yi;ZOU, Chunping~ 33:CN ~31:202110865397.0 ~32:29/07/2021

2021/06283 ~ Complete ~54:METHOD FOR CONTROLLING VOLTAGE OF ELECTROSTATIC-SPRAYING SPRAY GUN AND SYSTEM THEREOF ~71:QINGDAO JOBON SCIENCE & amp; TECH DEVELOPMENT CO., LTD., 63 Yantai South Road, Laixi City, Shandong Province, People's Republic of China ~72: PAN, Pengfei~

2021/06290 ~ Complete ~54:HIGH-THROUGHPUT SINGLE-CELL LIBRARIES AND METHODS OF MAKING AND OF USING ~71:ILLUMINA, INC., 5200 Illumina Way, San Diego, California 92122, United States of America;UNIVERSITY OF WASHINGTON, 4545 Roosevelt Way NE, Suite 400, Seattle, United States of America ~72: CUSANOVICH, Darren;DAZA, Riza;SHENDURE, Jay;STEEMERS, Frank~ 33:US ~31:62/950,670 ~32:19/12/2019

2021/06306 ~ Complete ~54:METHODS AND SYSTEMS FOR ENERGY-EFFICIENT DRYING OF CO-PRODUCTS IN BIOREFINERIES ~71:ENERGY INTEGRATION, INC., Bill Schafer CEO, 710 Sunshine Canyon Drive, Boulder, Colorado, 80302, United States of America ~72: LYNN CRAWFORD;WILLIAM III SCHAFER~ 33:US ~31:62/800,044 ~32:01/02/2019;33:US ~31:62/857,619 ~32:05/06/2019;33:US ~31:16/721,896 ~32:19/12/2019

2021/06303 ~ Complete ~54:SYSTEM FOR FIXING WEAR ELEMENTS ON EARTH-MOVING MACHINES ~71:METALOGENIA RESEARCH & amp; TECHNOLOGIES, S.L., C/ D'AVILA, 45, Spain ~72: CARLOS AMAT HOLGADO;JAVIER JIMENEZ GARCIA~ 33:ES ~31:PCT/ES2019/070125 ~32:01/03/2019

2021/06316 ~ Complete ~54:BINDING SECURE KEYS OF SECURE GUESTS TO A HARDWARE SECURITY MODULE ~71:INTERNATIONAL BUSINESS MACHINES CORPORATION, New Orchard Road, United States of America ~72: BUENDGEN, Reinhard;FRANZKI, Ingo;VISEGRADY, Tamas~ 33:US ~31:16/296,411 ~32:08/03/2019

2021/06319 ~ Complete ~54:TWO-STAGE METHOD FOR RECOVERING HALOGENATED HYDROCARBONS ~71:ZEOSYS MEDICAL GMBH, Im Biotechnologiepark 9, Germany ~72: EWERS, Christian;FRIEDRICH, Thomas~ 33:EP ~31:19155562.2 ~32:05/02/2019

2021/06266 ~ Complete ~54:APPARATUS AND METHOD FOR SPRAY DRYING ~71:Spraying Systems Co., North Avenue and Schmale Road, P.O. Box 7900, WHEATON 60187-7901, IL, USA, United States of America ~72: ACKERMAN, Thomas E.;BARNES, Christopher W.;BRIGHT, Adam C.;HUFFMAN, David C.;KOCSIS, Scott J.;ROSKOS, Kristopher E.;SMITH, Brian K.;ST. PETER, Glenn R.;SZCZAP, Joseph P.;THÉNIN, Michel R.~ 33:US ~31:62/250,318 ~32:03/11/2015

2021/06269 ~ Complete ~54:A RAILWAY INSPECTION DEVICE ~71:Zhengzhou Railway Vocational and Technical Col, No.56 Pengcheng Avenue, Zhengdong New District, Zhengzhou, Henan, 451460, People's Republic of China ~72: Du Lingxia;Feng Shenshen;Li Fan;Liu Fuxing;Yang Liu;Zhang Jiaxiang~ 33:CN ~31:202110904392.4 ~32:06/08/2021

2021/06274 ~ Complete ~54:ECOLOGICAL RESTORATION STRUCTURE AND METHOD FOR RAPID REGREENING OF SIDE SLOPE OF MOUNTAIN WIND FARM ~71:Central South University of Forestry and Technology, No. 498, Shaoshan South Road, Changsha, Hunan, People's Republic of China;Hunan 3721 Ecological Protection Co., Ltd., 1624, Complex Building, Bolin Jingu Community, No.399, Xinyao North Road, Xinkaipu Street, Tianxin District, Changsha, Hunan, People's Republic of China ~72: Hu Xuejun;Ran Jinkai;Yang Liuqing~

2021/06281 ~ Complete ~54:SPRINKLER GUARD WITH AN INTEGRATED FLEXIBLE EXTERNAL CONDUIT ~71:UNIVERSITY OF SOUTH AFRICA, 1 Preller Street Muckleneuk Ridge, South Africa ~72: STOFFBERG, GERRIT HENDRIK~ 33:ZA ~31:2020/05951 ~32:28/09/2020

2021/06294 ~ Complete ~54:THE MONOHYDRATE OF ROGARATINIB HYDROCHLORIDE AND SOLID STATES THEREOF ~71:Bayer Aktiengesellschaft, Kaiser-Wilhelm-Allee 1, LEVERKUSEN 51373, GERMANY, Germany;Bayer Pharma Aktiengesellschaft, MüIlerstr. 178, BERLIN 13353, GERMANY, Germany ~72: GRIES, Jörg;HÄSELHOFF, Claus-Christian;LOVIS, Kai;PLATZEK, Johannes~ 33:EP ~31:19154781.9 ~32:31/01/2019

2021/06313 ~ Complete ~54:TOPICAL PHOSPHOINOSITIDE 3-KINASE INHIBITORS ~71:VENTHERA, INC., 421 Kipling Street, United States of America ~72: ABDEL-MAGID, Ahmed F.;KYDONIEUS, Agis;ROSSI, Thomas;TAN, Hock S.~ 33:US ~31:62/802,093 ~32:06/02/2019;33:US ~31:62/958,049 ~32:07/01/2020

2021/06314 ~ Complete ~54:STARTING A SECURE GUEST USING AN INITIAL PROGRAM LOAD MECHANISM ~71:INTERNATIONAL BUSINESS MACHINES CORPORATION, New Orchard Road, United States of America ~72: IMBRENDA, Claudio;MIHAJLOVSKI, Viktor~ 33:US ~31:16/296,304 ~32:08/03/2019

2021/06301 ~ Complete ~54:CARGO UNIT ~71:GOODPACK IBC (SINGAPORE) PTE. LTD., 3 Changi South Street 1, Santa United Building, #03-01, Singapore ~72: ARGENTTI, Mario Cesar Barrio~ 33:US ~31:62/813,369 ~32:04/03/2019

2021/06305 ~ Complete ~54:REFRACTORY COMPOUND AND BINDER THEREFOR, METHOD FOR THE PRODUCTION AND USE THEREOF ~71:INTOCAST AG, Pempelfurtstr. 1, 40880, Ratingen, Germany ~72:

MANFRED KNOLL;NATALIE FRÖSE~ 33:DE ~31:10 2019 001 214.3 ~32:20/02/2019;33:DE ~31:20 2019 003 290.8 ~32:07/08/2019

2021/06330 ~ Complete ~54:A SMART SECURITY BLIND ~71:Mectronicend (Proprietary) Limited, 7048 Zone 6, South Africa ~72: Mectronicend (Proprietary) Limited~ 33:ZA ~31:2020/05332 ~32:27/08/2020

2021/06270 ~ Complete ~54:THE PREPARATION METHOD FOR ANTIBACTERIAL WATER-ABSORBING PAD FOR PALLET PACKAGE OF CHILLED MEAT AND ITS APPLICATION ~71:Northeast Agricultural University, NO.600 Chang-jiang-lu, Xiangfang, Harbin, Heilongjiang, People's Republic of China ~72: Han Jianchun;Kong Baohua;Li Xin;Liu Qian;Wang Hao;Yu Dong~

2021/06302 ~ Complete ~54:A BICYCLE PARKING STAND FOR LOCKING A BICYCLE TO THE STAND COMPRISING AN ELECTRONIC LOCK ~71:JFS PATENTS APS, Finsensvej 8, 4600, Denmark ~72: SØRENSEN, Jesper Farver~ 33:DK ~31:PA 2019 00163 ~32:05/02/2019

2021/06311 ~ Complete ~54:HYDROGEL ~71:ILLUMINA CAMBRIDGE LIMITED, 19 Granta Park, Great Abington, Cambridge, CB21 6DF, United Kingdom ~72: ALEXANDRE RICHEZ;ANDREW A BROWN;COLIN PILKINGTON;GIANLUCA ANDREA ARTIOLI;JEM PITCAIRN;WAYNE N GEORGE;XAVIER VON HATTEN~ 33:US ~31:62/942,527 ~32:02/12/2019;33:NL ~31:2024749 ~32:24/01/2020

2021/06273 ~ Complete ~54:METHOD AND KIT FOR DETECTING RICIN BY EXPONENTIAL AMPLIFICATION INITIATED BY RELATIVE DNA WALKER BASED ON FROZEN GOLD NANOPROBES ~71:Tianjin Institute of Environmental and Operational Medicine, No. 1 Dali Road, Heping District, Tianjin, People's Republic of China ~72: Gao Zhixian;Han Dianpeng;Han Tie;Li Shuang;Peng Yuan;Qin Kang;Ren Shuyue;Wang Yu~

2021/06287 ~ Complete ~54:SCREENING DEVICE ~71:BINDER + CO AG, GRAZER STRASSE 19-25 8200, GLEISDORF, AUSTRIA, Austria ~72: ANIBAS, Franz;DELIBASIC, Ermin;EIXELBERGER, Rainer;TIMISCHL, Bernhard;URL, Christian~ 33:EP ~31:19166047.1 ~32:29/03/2019

2021/06299 ~ Complete ~54:ATOMISER FOR A VAPOUR PROVISION SYSTEM ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: MOLONEY, Patrick~ 33:GB ~31:1903539.3 ~32:15/03/2019

2021/06318 ~ Complete ~54:SECURE EXECUTION GUEST OWNER ENVIRONMENTAL CONTROLS ~71:INTERNATIONAL BUSINESS MACHINES CORPORATION, New Orchard Road, United States of America ~72: BRADBURY, Jonathan;BUENDGEN, Reinhard;HELLER, Lisa~ 33:US ~31:16/296,498 ~32:08/03/2019

2021/06339 ~ Complete ~54:LAWSONIA INTRACELLULARIS COMPOSITIONS AND METHODS OF USING THE SAME ~71:UNIVERSITY OF SASKATCHEWAN, 120 Veterinary Road Saskatoon, United States of America ~72: OBRADOVIC, Milan;WILSON, Heather Lynne~ 33:US ~31:62/811,974 ~32:28/02/2019

2021/06324 ~ Provisional ~54:DISCRE-FEMALE-FEMALE HYGIENE SOLUTIONS ~71:TSHEGOFATSO ROSINA KOLOBE, 1172 GWABABA CRESENT, EBONY PARK,, South Africa ~72: TSHEGOFATSO ROSINA KOLOBE~

2021/06272 ~ Complete ~54:THERMAL CONTROL ANTICORROSION, FIREPROOF AND EXPLOSION-PROOF COATING MATERIAL FOR OIL AND GAS STORAGE TANK ~71:Shandong Furi Xuanwei New Material Technology Co., Ltd., No.1597 Zean Road, Jiangzhuang Town, Gaomi District, Weifang, Shandong, People's Republic of China ~72: Guan Yu;Li Guangjun;Li Shaoxiang;Liu Meng;Wang Ziyan;Zhang Kaiyuan~

2021/06297 ~ Complete ~54:METHOD AND APPARATUS FOR INTRA PREDICTION USING LINEAR MODEL ~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 ~31:62/809,555 ~32:22/02/2019;33:US ~31:62/825,021 ~32:28/03/2019;33:US ~31:62/825,796 ~32:28/03/2019

2021/06312 ~ Complete ~54:KITS AND FLOW CELLS ~71:ILLUMINA CAMBRIDGE LIMITED, 19 Granta Park, Great Abington, Cambridge , Cambridgeshire, CB21 6DF, United Kingdom;ILLUMINA, INC., 5200 Illumina Way, San Diego, California, 92122, United States of America ~72: ANDREW A BROWN;ANTOINE FRANCAIS;BRIAN D MATHER;MARIA CANDELARIA ROGERT BACIGALUPO;PIETRO GATTI LAFRANCONI;WAYNE N GEORGE;XIAOHAI LIU~ 33:US ~31:62/948,605 ~32:16/12/2019

2021/06268 ~ Complete ~54:SYSTEM FOR MONITORING PROGRESS OF A BENEFICIARY ~71:MOSAIC TECH (PTY) LIMITED, Mosaic Community Centre, Malebo Street, South Africa ~72: CONRADIE, Meyer, Johannes~

2021/06280 ~ Complete ~54:MAZEF TOXIN-ANTITOXIN SYSTEM ~71:DR. ANIL KUMAR PANDEY, Professor & amp; HOD, Physiology, Registrar Academic, ESIC Medical College & amp; Hospital Faridabad, Faridabad, Haryana, 121001, India;DR. SONIA JAIN, (WOS-A ,SR/WOS-A/LS-1021/2015), Department of Science and technology (DST),India, 114, Hemchandra Naskar Road, Pratibha Apt, 10, Kolkata , West Bengal, 700054, India ~72: DR. ANIL KUMAR PANDEY;DR. SONIA JAIN~ 33:IN ~31:202131039179 ~32:30/08/2021

2021/06289 ~ Complete ~54:INTELLIGENT RECOGNITION AND ALERT METHODS AND SYSTEMS ~71:AI CONCEPTS, LLC, 121 Greenway Boulevard, Carrollton, Georgia, United States of America ~72: SAMPLES, Johnathan~ 33:US ~31:16/297,502 ~32:08/03/2019

2021/06292 ~ Complete ~54:PROCESS FOR THE PRODUCTION OF AN IMPROVED DIESEL FUEL ~71:RODARTE HERRERA, Guillermo Gerardo, Ave. Ricardo Margain #575, Torre C suite 100, Colonia Santa Engracia, SAN PEDRO GARZA GARCÍA 66267, NUEVO LEÓN, MEXICO, Mexico;TREVIÑO QUINTANILLA, Sergio Antonio, Cerrada Cerro de Picachos #6235, Colonia Cumbres Quinta Real, MONTERREY 64347, NUEVO LEÓN, MEXICO, Mexico ~72: RODARTE HERRERA, Guillermo Gerardo;TREVIÑO QUINTANILLA, Sergio Antonio~ 33:US ~31:62/799,910 ~32:01/02/2019

2021/06310 ~ Complete ~54:ON-FLOW CELL THREE-DIMENSIONAL POLYMER STRUCTURES ~71:ILLUMINA, INC., 5200 Illumina Way, San Diego, California, 92122, United States of America ~72: ELISABET ROSAS-CANYELLES;HAYDEN BLACK;MATHIEU LESSARD-VIGER;MAX ZIMMERLEY;SEAN RAMIREZ;TARUN KUMAR KHURANA;YIR-SHYUAN WU~ 33:US ~31:62/941,197 ~32:27/11/2019;33:US ~31:62/941,215 ~32:27/11/2019;33:US ~31:62/941,242 ~32:27/11/2019;33:NL ~31:2024527 ~32:20/12/2019;33:NL ~31:2024528 ~32:20/12/2019;33:NL ~31:2024596 ~32:31/12/2019

2021/06276 ~ Complete ~54:A METHOD AND SYSTEM FOR PURCHASING FUEL USING A FUEL VOUCHER ~71:KUBHEKA, Phumulani Mpumelelo Mkhuliseni, 41 Johan Hager Place,, Philip Nel Park, Pretoria-West 0029, Gauteng, SOUTH AFRICA, South Africa;RAMAKASHA, Fanisani Frank, Jansenville 11, 225 WF Nkomo Street, TSHWANE, Gauteng, SOUTH AFRICA, South Africa ~72: RAMAKASHA, Fanisani Frank~ 33:ZA ~31:2020/03306 ~32:03/06/2020

2021/06298 ~ Complete ~54:FLOW DIRECTING MEMBER FOR A VAPOUR PROVISION SYSTEM ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: MOLONEY, Patrick~ 33:GB ~31:1903537.7 ~32:15/03/2019;33:GB ~31:1910102.1 ~32:15/07/2019

2021/06308 ~ Complete ~54:DELIVERY OF BIOMOLECULES TO PBMCS TO MODIFY AN IMMUNE RESPONSE ~71:SQZ BIOTECHNOLOGIES COMPANY, 200 Arsenal Yards Boulevard, Suite 210, Watertown, Massachusetts, 02472, United States of America ~72: ARMON R SHAREI;CAROLYNE KELLY SMITH;DEFNE YARAR;EMRAH ILKER OZAY;HOWARD BERNSTEIN;KATARINA BLAGOVIC;KELAN HLAVATY;MATTHEW BOOTY;SCOTT LOUGHHEAD~ 33:US ~31:62/812,225 ~32:28/02/2019;33:EP ~31:19161964.2 ~32:11/03/2019;33:US ~31:62/841,089 ~32:30/04/2019;33:US ~31:62/886,799 ~32:14/08/2019;33:US ~31:62/933,304 ~32:08/11/2019;33:US ~31:62/948,732 ~32:16/12/2019

2021/06271 ~ Complete ~54:METHOD FOR BREWING APPLE CIDER WITH RED-FLESH APPLES ~71:Qingdao Agricultural University, No.700, Changcheng Road, Chengyang District, Qingdao, Shandong, People's Republic of China ~72: Bai Suhua;Dai Hongyi;Li Jingyuan;Song Jing;Sun Xiaohong;Zhang Yugang;Zhu Jun~

2021/06285 ~ Complete ~54:RIDGE LINE DAMAGE EXTENT MEASUREMENT METHOD AND APPARATUS THEREFOR ~71:YIMEIDE TECHNOLOGY CO., LTD, NO. 15, SHUANGLOULI ROAD, INDUSTIRAL PARK SUZHOU, JIANGSU 215000, CHINA, People's Republic of China ~72: NI, Zhiting;WANG, Yongxing~ 33:CN ~31:202010017038.5 ~32:08/01/2020

2021/06296 ~ Complete ~54:ULTRASOUND IMAGING APPARATUS ~71:Wuxi Hisky Medical Technologies Co., Ltd., B401, 530 Plaza, University Science Park, Taihu International Science & amp; 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 ~31:201910133780.X ~32:22/02/2019

2021/06275 ~ Complete ~54:TRADITIONAL CHINESE MEDICINE PRESCRIPTION FOR IMPROVING ANIMAL SURVIVAL RATE ~71:Institute of Animal Science and Veterinary Medicine, Shandong Academy of Agricultural Sciences, No. 202, Industrial North Road, Ji'nan City, Shandong Province, People's Republic of China ~72: Chen Zhi;Guo Lihui;Hu Xiaoying;Liu Fei;Liu Yaotao;Ren Sufang;Sun Wenbo;Wu Jiaqiang;Xu Minli;Yu Jiang;Zhang Lin;Zhang Yuyu~

2021/06288 ~ Complete ~54:COLLECTOR COMPOSITION ~71:BASF SE, CARL BOSCH STRASSE 38, 67056 LUDWIGSHAFEN AM RHEIN, GERMANY, Germany ~72: KAMKIN, Rostislav;MICHAILOVSKI, Alexej~ 33:RU ~31:PCT/RU2019/000063 ~32:01/02/2019

2021/06300 ~ Complete ~54:TSG-6 ANTIBODIES AND USES THEREFOR ~71:University Health Network, 190 Elizabeth Street, R. Fraser Elliott Building - Room 1S-417, TORONTO M5G 2C4, ONTARIO, CANADA, Canada ~72: BRAY, Mark R.;BROKX, Richard;MASON, Jacqueline M.~ 33:US ~31:62/817,152 ~32:12/03/2019

2021/06304 ~ Complete ~54:HETEROCYCLIC COMPOUND AND USE THEREOF ~71:TAKEDA PHARMACEUTICAL COMPANY LIMITED, 1-1, Doshomachi 4-Chome Chuo-ku Osaki-shi, Osaka, 5410045, Japan ~72: ALEXANDER MARTIN PAWLICZEK;KEISUKE IMAMURA;KOHEI TAKEUCHI;NORIHITO TOKUNAGA;TAKAHIRO SUGIMOTO;TATSUKI KOIKE;TOHRU MIYAZAKI;TSUNEO ODA;YASUSHI HATTORI;YASUTAKA HOASHI;YOSHITERU ITO;YUHEI MIYANOHANA;YUICHI KAJITA~ 33:JP ~31:2019-015488 ~32:31/01/2019

2021/06315 ~ Complete ~54:INCREMENTAL DECRYPTION AND INTEGRITY VERIFICATION OF A SECURE OPERATING SYSTEM IMAGE ~71:INTERNATIONAL BUSINESS MACHINES CORPORATION, New Orchard Road, United States of America ~72: BORNTRAEGER, Christian;BRADBURY, Jonathan;BUENDGEN, Reinhard;BUSABA, Fadi;HELLER, Lisa;MIHAJLOVSKI, Viktor~ 33:US ~31:16/296,334 ~32:08/03/2019

2021/06321 ~ Complete ~54:METHOD AND APPARATUS FOR REPAIRING ABNORMAL VALUE OF SAMPLING DATA ~71:NANJING PANENG TECHNOLOGY DEVELOPMENT CO., LTD., No. 6, Panneng Road, Jiangbei New District, Nanjing, People's Republic of China ~72: PANG, Jiyao~ 33:CN ~31:202010825283.9 ~32:17/08/2020 2021/06263 ~ Provisional ~54:NON-VOLATILE RESISTIVE RANDOM ACCESS MEMORY AND A MANUFACTURING METHOD THEREOF ~71:UNIVERSITY OF SOUTH AFRICA, Preller Street Muckleneuk, Pretoria, South Africa ~72: SREEDEVI VALLABHAPURAPU;VIJAYA SRINIVASU VALLABHAPURAPU;ZOLILLE WISEMAN DLAMINI~

2021/06264 ~ Complete ~54:NUCLEIC ACID, COMPOSITION AND CONJUGATE CONTAINING SAME, AND PREPARATION METHOD AND USE ~71:SUZHOU RIBO LIFE SCIENCE CO., LTD, 168 YUANFENG ROAD, YUSHAN TOWN, KUNSHAN, JIANGSU 215300, CHINA, People's Republic of China ~72: GAO, Shan;KANG, Daiwu;ZHANG, Hongyan~ 33:CN ~31:201711249333.8 ~32:01/12/2017;33:CN ~31:201711482970.X ~32:29/12/2017

2021/06277 ~ Complete ~54:VACUUM EXPLOSION EXPERIMENT DEVICE ~71:ANHUI UNIVERSITY OF SCIENCE & amp; TECHNOLOGY, No.168 Taifeng Road, Shannan New District, People's Republic of China ~72: CHENG, Yangfan;LI, Zhimin;LIN, Chaojian;LIU, Wenzhen;LU, Junwei;WANG, Quan;WANG, Xuguang;WANG, Yinjun~

2021/06279 ~ Complete ~54:A METHOD FOR DATA GRANULATION AND INDEX STANDARDIZATION OF SPREADSHEETS ~71:HEBEI INSTITUTE OF SCIENCE AND TECHNOLOGY INFORMATION (HEBEI INSTITUTE OF SCIENCE AND TECHNOLOGY INNOVATION STRATEGY), No. 233, Qingyuan Street, People's Republic of China ~72: CHEN, Juan;GAO, Yinzhen;GAO, Yuan;JIANG, Qiannan;LI, Yinsheng;LIU, Miao;NIE, Yongchuan;REN, Yan;WANG, Hong;WU, Feng;WU, Pengjie;ZHANG, Chaozong;ZHANG, Cong;ZHANG, Die;ZHANG, Jinlong~ 33:CN ~31:202011365226.3 ~32:28/11/2020

2021/06284 ~ Complete ~54:RAD51 INHIBITORS ~71:CYTEIR THERAPEUTICS, INC., 128 Spring Street, Building A, Suite 510, United States of America ~72: LAPIERRE, Jean-Marc;MCCOMAS, Casey Cameron;VACCA, Joseph~ 33:US ~31:62/816,998 ~32:12/03/2019

2021/06286 ~ Complete ~54:CAPSULE AND SYSTEM FOR PREPARING A LIQUID FOOD PRODUCT ~71:DELICA AG, BRESTENEGGSTRASSE 4, 5033 BUCHS AG, SWITZERLAND, Switzerland ~72: AFFOLTER, Roland;BRUNSCHWILER, Christoph;GUGERLI, Raphael;KURTZ, Olivia;WÜTHRICH, Martin~ 33:EP ~31:19160367.9 ~32:01/03/2019

2021/06291 ~ Complete ~54:FEED APPARATUS FOR TRANSFER PRESS ~71:ADVAL TECH HOLDING AG, Freiburgstrasse 556, Switzerland ~72: COMMON, Matthias;GRAF, Urs~ 33:EP ~31:19160179.8 ~32:01/03/2019;33:CH ~31:01589/19 ~32:11/12/2019;33:CH ~31:01590/19 ~32:11/12/2019

2021/06293 ~ Complete ~54:APPARATUS AND METHOD FOR PRESERVING THE AROMA OF A FERMENTABLE BEVERAGE ~71:Aromaloc Inc., 4400 Lakeside Road, PENTICTON V2A 8W3, BC, CANADA, Canada ~72: JONES, Richard L.~ 33:US ~31:16/268,990 ~32:06/02/2019

2021/06309 ~ Complete ~54:EMBRYOGENESIS FACTORS FOR CELLULAR REPROGRAMMING OF A PLANT CELL ~71:PIONEER HI-BRED INTERNATIONAL, INC., 7100 NW 62nd Avenue, PO Box 1014, Johnston, Iowa, 50131-1014, United States of America ~72: HUAXUN YE;JON AARON TUCKER REINDERS~ 33:US ~31:62/835,500 ~32:18/04/2019;33:US ~31:62/947,786 ~32:13/12/2019

2021/06317 ~ Complete ~54:SECURE INTERFACE CONTROL SECURE STORAGE HARDWARE TAGGING ~71:INTERNATIONAL BUSINESS MACHINES CORPORATION, New Orchard Road, United States of America ~72: BRADBURY, Jonathan;BUSABA, Fadi;HELLER, Lisa~ 33:US ~31:16/296,450 ~32:08/03/2019

2021/06320 ~ Complete ~54:SWITCHING VALUE ACQUISITION CIRCUIT AND METHOD ~71:NANJING PANENG TECHNOLOGY DEVELOPMENT CO., LTD., No. 6, Panneng Road, Jiangbei New District, Nanjing, People's Republic of China ~72: LU, Huajun;PANG, Jiyao~ 33:CN ~31:202010855663.7 ~32:24/08/2020

- APPLIED ON 2021/08/31 -

2021/06328 ~ Provisional ~54:INTERACTIVE DATA SYSTEM ~71:DUNCAN, Douglas Malcolm, 1344 Spyker Crescent, Stormill, Ext 2, South Africa ~72: DUNCAN, Douglas Malcolm~

2021/06327 ~ Provisional ~54:ASSEMBLY ARRANGEMENT ~71:POONEE, Mukesh, 20 Hydrangea Avenue, Lenasia, South Africa ~72: POONEE, Mukesh~

2021/06331 ~ Complete ~54:ANTI-CD38 ANTIBODIES FOR TREATMENT OF LIGHT CHAIN AMYLOIDOSIS AND OTHER CD38-POSITIVE HEMATOLOGICAL MALIGNANCIES ~71:Janssen Biotech, Inc., 800/850 Ridgeview Drive, HORSHAM 19044, PA, USA, United States of America;Tufts Medical Center, Inc., 800 Washington Streeet, BOSTON 02111, MA, USA, United States of America ~72: CHAULAGAIN, Chakra;COMENZO, Raymond;DOSHI, Parul;MA, Xun;SASSER, Amy~ 33:US ~31:62/164,206 ~32:20/05/2015;33:US ~31:62/214,586 ~32:04/09/2015

2021/06341 ~ Complete ~54:SYNERGISTIC INSECTICIDAL COMPOSITION COMPRISING AVERMECTIN COMPOUND ~71:WILLOWOOD CHEMICALS PRIVATE LIMITED, 409, Fourth Floor, Salcon Aurum, India ~72: MOHAN, Jitendra;MUNDHRA, Parikshit~ 33:IN ~31:201911007935 ~32:28/02/2019

2021/06329 ~ Provisional ~54:HOPPER HYDRO-POWER UNIT (HH-PU) ~71:Anthony Dlayane Chauke, 10302 unit R, South Africa ~72: Anthony Dlayane Chauke~ 33:ZA ~31:01 ~32:30/08/2021

2021/06344 ~ Complete ~54:MULTILAYER STRUCTURE FOR ACTIVE PACKAGING, PROCESS AND METHOD OF USING THE SAME ~71:Decco Worldwide Post-Harvest Holdings B.V., Tankhoofd 10, Vondelingenplaat, KE ROTTERDAM 3196, THE NETHERLANDS, Netherlands;UPL LTD, Agrochemical Plant, Durgachak, Midnapore Dist., HALDIA 721 602, WEST BENGAL, INDIA, India ~72: SAPORITO, Francesco~ 33:IN ~31:201931004050 ~32:01/02/2019

2021/06335 ~ Complete ~54:LONG CHAIN ALGAL POLYSACCHARIDE AND METHOD FOR SEPARATION AND PURIFICATION THEREOF ~71:Shandong Agricultural University, No.61, Daizong Street,, Taian, Shandong, People's Republic of China ~72: Lee Yunkyoung;Zhang Guiguo~

2021/06345 ~ Complete ~54:AEROSOL PROVISION DEVICE ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, GREATER LONDON, UNITED KINGDOM, United Kingdom ~72: SAYED, Ashley John;WARREN, Luke James;WOODMAN, Thomas Alexander John~ 33:GB ~31:1903248.1 ~32:11/03/2019

2021/06348 ~ Complete ~54:AEROSOL PROVISION DEVICE ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, GREATER LONDON, UNITED KINGDOM, United Kingdom ~72: BLANDINO, Thomas Paul;SAYED, Ashley John;THORSEN, Mitchel;WARREN, Luke James~ 33:US ~31:62/816,258 ~32:11/03/2019;33:US ~31:62/816,260 ~32:11/03/2019

2021/06350 ~ Complete ~54:JOINT CODING OF PALETTE MODE USAGE INDICATION ~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;WEIJIA ZHU;YUE WANG~ 33:CN ~31:PCT/CN2019/077454 ~32:08/03/2019

2021/06352 ~ Complete ~54:IMPROVED WEIGHTING PROCESSING OF COMBINED INTRA-INTER 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;NA ZHANG;YUE WANG~ 33:CN ~31:PCT/CN2019/079148 ~32:21/03/2019;33:CN ~31:PCT/CN2019/100616 ~32:14/08/2019

2021/06353 ~ Complete ~54:CRYSTAL OF DIARYLTHIOHYDANTOIN COMPOUND ~71:CHIA TAI TIANQING PHARMACEUTICAL GROUP CO., LTD., No. 369 Yuzhou South Rd., Lianyungang , Jiangsu, 222062, People's Republic of China ~72: CHUNLI SHEN;FEI LIU;JIAHU WU;LIN ZHANG;SHENGLIN CHEN;TING WANG;XIN TIAN;YUYING GUO~ 33:CN ~31:201910104953.5 ~32:01/02/2019

2021/06354 ~ Complete ~54:DATA DYNAMIC PARTITIONING SYSTEM BASED ON NODE LOAD ~71:NANJING LES CYBERSECURITY AND INFORMATION TECHNOLOGY RESEARCH INSTITUTE CO. LTD., Building 05, Tian'an Digital City, No.36, Yongfeng Avenue, Qinhuai District Nanjing, Jiangsu, 210000, People's Republic of China ~72: CAN DING;CHENGLONG HE;HUIKE LI;JIAYI WU;JINING JIANG;LINGWU MENG;XUEHAI GU;ZHE LIU;ZHENG CHEN~ 33:CN ~31:201910978247.3 ~32:15/10/2019

2021/06355 ~ Complete ~54:METHOD AND APPARATUS FOR MANUFACTURING A WORKPIECE INTO A PRODUCT ~71:SYNOVA S.A., Route de Genolier 13, 1266, Duillier, Switzerland ~72: BERNOLD RICHERZHAGEN;JÖRG PAUSCH;JULIEN LE CLEC'H~ 33:EP ~31:19161033.6 ~32:06/03/2019

2021/06398 ~ Provisional ~54:GUARDSURANCE BUSINESS MODEL ~71:MAKHAZA GEORGE MNGUNI, 2001 Section A Kwaggafontein, South Africa ~72: MAKHAZA GEORGE MNGUNI~

2021/06358 ~ Complete ~54:MULTI-COMPARTMENT PACKAGE FOR PREPARING TAHINI BASED PRODUCTS AND METHOD OF USING THE SAME ~71:RUSHDI FOOD INDUSTRIES LTD., Industrial Area Alon Tavor, P.O.B. 1089, Israel ~72: BASHIR, Aref~ 33:IL ~31:264737 ~32:07/02/2019;33:US ~31:62/813,788 ~32:05/03/2019

2021/06359 ~ Complete ~54:USE OF VITAMIN K IN COMBINATION WITH ANTICOAGULANTS ~71:KAYDENCE PHARMA AS, Lilleakerveien 2B 2083, Norway ~72: VAN GORP, Rick~ 33:US ~31:62/817,037 ~32:12/03/2019

2021/06347 ~ Complete ~54:AEROSOL PROVISION DEVICE ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, GREATER LONDON, UNITED KINGDOM, United Kingdom ~72: BLANDINO, Thomas Paul;HEPWORTH, Richard John~ 33:US ~31:62/816,319 ~32:11/03/2019

2021/06334 ~ Complete ~54:INTELLIGENT VARIABLE-SPEED CONTROL AND MATERIAL DETECTION TREATMENT DEVICE OF MINING BELT CONVEYOR ~71:SHANDONG UNIVERSITY OF SCIENCE AND TECHNOLOGY, No.579, Qianwangang Road, Qingdao Economic and Technological Development Zone , Qingdao, Shandong Province, 266590, People's Republic of China ~72: JINPENG SU;KUN ZHANG;LIANGSONG HUANG;QIANG ZHANG;SHAOAN SUN;SI WU;XIFU LIU;YING TIAN;YUXIA LI;ZENGKAI LIU~

2021/06343 ~ Complete ~54:METHOD AND APPARATUS FOR ULTRA-SHORT PULSED LASER COMMUNICATION THROUGH A LOSSY MEDIUM ~71:CHAFFEE, THOMAS, MALCOLM, 209 S. Randolph St., United States of America ~72: CHAFFEE, THOMAS, MALCOLM;FLEISHAUER, ROBERT, P;SZAJOWSKI, PAUL, F~ 33:US ~31:16/269,106 ~32:06/02/2019 2021/06346 ~ Complete ~54:AEROSOL GENERATING SYSTEM ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: MOLONEY, Patrick~ 33:GB ~31:1904844.6 ~32:05/04/2019

2021/06333 ~ 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: DIXON, Eric Robert;FORD, Steven M.;FOREMAN, Rachel Liat David;FRESCHAUF, Lauren R.;GOHRES, Rachel Ann;KEPLINGER, Stefan Florian;OBERWISE, Eric Michael;OKOS, Chris J.;POPP, Michael J.~ 33:US ~31:62/805,847 ~32:14/02/2019;33:US ~31:62/944,325 ~32:05/12/2019

2021/06340 ~ Complete ~54:MOUNTING ASSEMBLY ~71:STYLE IN STAINLESS CC T/A STEELCRAFT, 6-8 Gemini Street, South Africa ~72: LOURENS, Wilhelm;MARX, Jacobus Jerimias~ 33:ZA ~31:2019/00762 ~32:06/02/2019

2021/06351 ~ Complete ~54:CONSTRAINTS ON MODEL-BASED RESHAPING IN VIDEO PROCESSING ~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;KAI ZHANG;LI ZHANG;YUE WANG~ 33:CN ~31:PCT/CN2019/077429 ~32:08/03/2019

2021/06357 ~ Complete ~54:A FILTER AND A FUEL ASSEMBLY FOR A NUCLEAR PLANT ~71:WESTINGHOUSE ELECTRIC SWEDEN AB, , 721 63, Västerås, Sweden ~72: HOSHIAR AMIN;UFFE BERGMANN~ 33:EP ~31:19162334.7 ~32:12/03/2019

2021/06356 ~ Complete ~54:LAUNDRY DETERGENT COMPOSITIONS ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: ADAM PETER JARVIS;ANDREW PHILIP PARKER;CHRISTOPHER CLARKSON JONES;PAUL FERGUSON~ 33:EP ~31:19166000.0 ~32:28/03/2019

2021/06342 ~ Complete ~54:A METHOD FOR MOUNTING A ROLL OF PROTECTIVE MESH MATERIAL TO AN UNDERGROUND ROCK DRILLING MACHINE, A METHOD FOR ATTACHING PROTECTIVE MESH MATERIAL TO A ROCK SURFACE AND A MOUNTING DEVICE ~71:GEOBRUGG AG, Aachstrasse 11, Switzerland ~72: Roland BUCHER;Shane BROWN~ 33:AU ~31:2019200996 ~32:13/02/2019

2021/06349 ~ Complete ~54:AEROSOL-GENERATING DEVICE ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, GREATER LONDON, UNITED KINGDOM, United Kingdom ~72: ABI AOUN, Walid;BLANDINO, Thomas Paul;HALLIDAY, Edward Joseph;MOLLISON-BALL, Lois;SAYED, Ashley John;THORSEN, Mitchel;TRANI, Marina;WARREN, Luke James;WOODMAN, Thomas Alexander John;ZAINUDDIN, Ben~ 33:GB ~31:1903298.6 ~32:11/03/2019;33:GB ~31:1903299.4 ~32:11/03/2019;33:GB ~31:1903303.4 ~32:11/03/2019;33:GB ~31:1903305.9 ~32:11/03/2019;33:GB ~31:1903306.7 ~32:11/03/2019;33:GB ~31:1903307.5 ~32:11/03/2019;33:US ~31:62/816,341 ~32:11/03/2019;33:GB ~31:1907428.5 ~32:24/05/2019;33:GB ~31:1907429.3 ~32:24/05/2019;33:GB ~31:1907431.9 ~32:24/05/2019;33:GB ~31:1907432.7 ~32:24/05/2019;33:GB ~31:1907433.5 ~32:24/05/2019;33:GB ~31:1907434.3 ~32:24/05/2019

2021/06372 ~ Complete ~54:ADVICE PRESENTATION SYSTEM ~71:KAMEI, Masamichi, 1-4-3-2803, Mita, Meguro-ku, Japan ~72: KAMEI, Masamichi~ 33:JP ~31:2019-040028 ~32:05/03/2019

2021/06332 ~ Complete ~54:A SPRAY VEHICLE ~71:Bayer Aktiengesellschaft, Kaiser-Wilhelm-Allee 1, LEVERKUSEN 51373, GERMANY, Germany;Monsanto Technology LLC, 800 North Lindbergh Boulevard, ST. LOUIS 63167, MO, USA, United States of America ~72: CHAPPLE, Andrew Charles;DEYOUNG,
Creighton;KOHNE, Jeffrey;LUZECKY, Christopher;SHERIDAN, Alexander;VAUGHN, Anthony~ 33:EP ~31:18211247.4 ~32:10/12/2018;33:US ~31:62/906,791 ~32:27/09/2019

- APPLIED ON 2021/09/01 -

2021/06364 ~ Complete ~54:A CONTROL METHOD AND DEVICE FOR PRECISE POSITIONING OF IRON CORE SILICON STEEL SHEET OF TRANSFORMER ~71:Shenyang University of Technology, No.111, Shenliao West Road, Economic and Technological Development Zone, Shenyang, Liaoning, 110870, People's Republic of China ~72: Ding Zijian;Liu Weiwei;Wang Chenyu;Wang Lei;Wang Shengnan;Wang Shiya;Wu Yao~

2021/06393 ~ Complete ~54:WATER PURIFIER ~71:FABIO AND MARKUS TURBINE ENGINEERING GMBH, Kantonsstrasse 35, 8807 Freienbach, Switzerland ~72: FABIO HÜTHER~ 33:CH ~31:00254/19 ~32:01/03/2019

2021/06374 ~ Complete ~54:HANDLING OF MEASUREMENT CONFIGURATION UPON CONDITIONAL MOBILITY EXECUTION ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83 STOCKHOLM, SWEDEN, Sweden ~72: DA SILVA, Icaro L. J.;EKLÖF, Cecilia;RAMACHANDRA, Pradeepa~ 33:US ~31:62/801,246 ~32:05/02/2019

2021/06373 ~ Complete ~54:COMPOSITIONS CONTAINING BACILLAENE PRODUCING BACTERIA OR PREPARATIONS THEREOF ~71:EVONIK OPERATIONS GMBH, RELLINGHAUSER STRASSE 1-11, 45128 ESSEN, GERMANY, Germany ~72: BERNGRUBER, Thomas;BORGMEIER, Claudia;MOLCK, Stella;PELZER, Stefan;STANNEK-GÖBEL, Lorena~ 33:EP ~31:19156407.9 ~32:11/02/2019

2021/06391 ~ Complete ~54:MRNA PURIFICATION BY TANGENTIAL FLOW FILTRATION ~71:ETHRIS GMBH, Semmelweisstrasse 3 , 82152, Planegg, Germany ~72: JOHANNES GEIGER;MARTIN TREML~ 33:EP ~31:19156522.5 ~32:11/02/2019

2021/06376 ~ Complete ~54:PROCESS FOR PREPARING A FUSED TRICYCLIC COMPOUND, AND INTERMEDIATE THEREOF ~71:KBP BIOSCIENCES CO., LTD., 401, Building 2, Jinan Pharm Valley, North Section of Gangxing Three Road, High-Tech Development Zone, Jinan, People's Republic of China ~72: GUO, Pengfei;HUANG, Zhenhua;LI, Cheng~ 33:CN ~31:201910155700.0 ~32:01/03/2019;33:CN ~31:201910187667.X ~32:13/03/2019

2021/06385 ~ Complete ~54:SYSTEM ~71:SHERLOCK BIOSCIENCES, 301 Binney St.,, Suite 402, United States of America ~72: BLAKE, William, J.;BROWN III, Carl, Wayne;DHANDA, Rahul, K.~ 33:US ~31:62/821,877 ~32:21/03/2019;33:US ~31:62/972,599 ~32:10/02/2020

2021/06368 ~ Complete ~54:THE RFID LOGISTICS MANAGEMENT SYSTEM ~71:Zhengzhou University of Aeronautics, No.15 Wenyuan West Road, Longzihu University Park, Zhengdong New District, Zhengzhou, Henan, People's Republic of China ~72: Lu Hongqi;Luo Yuying;Shi Liping;Xie Benkai;Yu Juan~ 33:CN ~31:202110915366.1 ~32:10/08/2021

2021/06380 ~ Complete ~54:BIOLOGICAL SEQUENCE INFORMATION HANDLING ~71:BIOKEY BV, FABRIEKSSTRAAT 7, 3930 HAMONT, BELGIUM, Belgium ~72: BRANDS, Ingrid;VAN HYFTE, Arnout;VAN HYFTE, Dirk;VAN HYFTE, Ewald~ 33:BE ~31:BE2019/5077 ~32:07/02/2019;33:EP ~31:19156085.3 ~32:07/02/2019;33:EP ~31:19190899.5 ~32:08/08/2019

2021/06390 ~ Complete ~54:VAPOUR PROVISION SYSTEM AND CORRESPONDING METHOD ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: CHEN, Shixiang~ 33:GB ~31:1903144.2 ~32:08/03/2019

2021/06395 ~ Complete ~54:REGENERATIVE MEDIA FILTER AIR SCOURING APPARATUS AND METHOD ~71:NEPTUNE BENSON, INC., 6 Jefferson Drive, Coventry, Rhode Island, 02816, United States of America ~72: STEVEN HAWKSLEY~ 33:US ~31:62/810,008 ~32:25/02/2019

2021/06362 ~ Provisional ~54:UN-I-BASE ~71:AJ Polytech Consultants CC T/A Polytech Inc., 52 Wilton Avenue, Bryanston, Johannesburg, South Africa ~72: Aldrin John~

2021/06383 ~ Complete ~54:METHOD FOR MEASURING LIP STICKING FORCE OF CIGARETTE TIPPING PAPER ~71:CHINA TOBACCO YUNNAN INDUSTRIAL CO., LTD, No. 367, Hongjin Road, Wuhua District, People's Republic of China ~72: HE, Pei;JIANG, Kunming;JIANG, Wei;LI, Zhenjie;LIU, Chunbo;LIU, Zhihua;SI, Xiaoxi;SU, Zhongbi;TANG, Shiyun;XIANG, Nengjun;YANG, Chen;YANG, Ji;ZHANG, Fengmei;ZHU, Ruizhi~ 33:CN ~31:202010576787.1 ~32:22/06/2020

2021/06388 ~ Complete ~54:METHODS AND DEVICES FOR CODING AND DECODING A MULTI-VIEW VIDEO SEQUENCE ~71:Orange, 111, quai du Président Roosevelt, ISSY-LES-MOULINEAUX 92130, FRANCE, France ~72: BOISSONADE, Patrick;JUNG, JoëI~ 33:FR ~31:1902659 ~32:15/03/2019

2021/06397 ~ Complete ~54:FLOATING FOUNDATION ~71:EHLERS, Jan Gerhardus, 7145 Roquette Close, Rooihuiskraal North Ext 25, South Africa ~72: EHLERS, Jan Gerhardus~ 33:ZA ~31:2019/00677 ~32:01/02/2019

2021/06375 ~ Complete ~54:PYRAZINE DERIVATIVE AND APPLICATION THEREOF IN INHIBITING SHP2 ~71:SUZHOU GENHOUSE PHARMACEUTICAL CO., LTD, Room 505, 507 Building D, 388 Ruoshui Road, People's Republic of China ~72: LU, Jinchang;MA, Mengnan;SUN, Haifeng;WANG, Kuifeng;ZHANG, Tao~ 33:CN ~31:201910160960.7 ~32:04/03/2019

2021/06377 ~ Complete ~54:METHOD FOR ENCODING/DECODING VIDEO SIGNAL AND DEVICE THEREFOR ~71:XRIS CORPORATION, 508-3ho, Bdong, 230, Pangyoyeok-ro Bundang-gu,, Republic of Korea ~72: LEE, Bae Keun~ 33:KR ~31:10-2019-0051234 ~32:02/05/2019;33:KR ~31:10-2019-0051890 ~32:02/05/2019;33:KR ~31:10-2019-0069017 ~32:11/06/2019

2021/06379 ~ Complete ~54:BIOLOGICAL SEQUENCING ~71:BIOCLUE BV, FABRIEKSSTRAAT 7, 3930 HAMONT, BELGIUM, Belgium ~72: BRANDS, Ingrid;VAN HYFTE, Arnout;VAN HYFTE, Dirk;VAN HYFTE, Ewald~ 33:EP ~31:19156086.1 ~32:07/02/2019;33:EP ~31:19190900.1 ~32:08/08/2019

2021/06363 ~ Provisional ~54:SYSTEM AND METHOD FOR SECURE STORAGE AND RECOVERY OF SENSITIVE DATA ~71:WILSON, Antony Brodie, 19 Old Howick Road, Wembley, South Africa;WILSON, Janice Dorothy, 19 Old Howick Road, Wembley, South Africa;WILSON, Matthew Brodie, 19 Old Howick Road, Wembley, South Africa ~72: WILSON, Antony Brodie;WILSON, Matthew Brodie~

2021/06382 ~ Complete ~54:CANNABINOID RECEPTOR AGONISTS AND SERINE HYDROLASE ENZYME INHIBITOR BASED ANXIOLYTIC THERAPEUTIC PRODUCT ~71:MEDIPURE PHARMACEUTICALS INC., 302 -267 WEST ESPLANADE AVE, NORTH VANCOUVER, BRITISH COLUMBIA V7M 1A5, CANADA, Canada ~72: KODEKALRA, Rakshit, Devappa;PANDEY, Nihar, R.;TIWARI-PANDEY, Rashmi~ 33:US ~31:16/270,389 ~32:07/02/2019

2021/06389 ~ Complete ~54:DNA-BINDING DOMAIN TRANSACTIVATORS AND USES THEREOF ~71:University of Massachusetts, One Beacon Street, 31st Floor, BOSTON 02108, MA, USA, United States of America ~72: ESTEVES, Miguel Sena;WOLFE, Scot A.~ 33:US ~31:62/810,005 ~32:25/02/2019 2021/06366 ~ Complete ~54:COMPENSATION AND DEVICE FOR INCONSISTENT CUTTING ACCURACY OF MULTI-STATION MACHINE TOOL ~71:Shenyang University of Technology, No.111, Shenliao West Road, Economic and Technological Development Zone, Shenyang, Liaoning, 110870, People's Republic of China ~72: Chen Yuqing;Liu Weiwei;Nie Yue;Wang Lei;Wang Shengnan;Wang Shiya;Wu Yao~

2021/06369 ~ Complete ~54:GIP/GLP1 CO-AGONIST COMPOUNDS ~71:Eli Lilly and Company, Lilly Corporate Center, INDIANAPOLIS 46285, IN, USA, United States of America ~72: ABRAHAM, Milata Mary;ABURUB, Aktham;ALSINA-FERNANDEZ, Jorge;BROWN, Robert Andrew;CABRERA, Over;COSKUN, Tamer;CUMMINS, Robert Chadwick;DATTA-MANNAN, Amita;ELSAYED, Mohamed ElSayed Hamed;LAI, Xianyin;PATEL, Phenil Jayantilal;QU, Hongchang;SLOOP, Kyle Wynn;TRAN, Thi Thanh Huyen;WALLIS, James Lincoln;WILLARD, Francis Stafford~ 33:US ~31:62/702,072 ~32:23/07/2018;33:US ~31:62/730,563 ~32:13/09/2018;33:US ~31:62/740,596 ~32:03/10/2018

2021/06365 ~ Complete ~54:INTELLIGENT WORK PIECE SORTING DEVICE BY ROBOT ~71:SUZHOU YANKEXING INTELLIGENT TECHNOLOGY CO., LTD., Room 1903, Building 3, Dongmao Commercial Plaza, No.736 Shunhu West Road, Shengze Town, Wujiang District, Suzhou, Jiangsu, 215200, People's Republic of China ~72: LI, Guohui;LI, Shenghong;WEN, Gaosen;ZENG, Jingxia~

2021/06394 ~ Complete ~54:ENERGY STORAGE PLANT AND PROCESS ~71:ENERGY DOME S.P.A., Viale Abruzzi 94 , 20131, Milano, Italy ~72: CLAUDIO SPADACINI~ 33:IT ~31:102019000002385 ~32:19/02/2019

2021/06392 ~ Complete ~54:THERAPEUTIC RNA FOR PROSTATE CANCER ~71:BIONTECH SE, An der Goldgrube 12, 55131, Mainz, Germany;TRON - TRANSLATIONALE ONKOLOGIE AN DER UNIVERSITÄTSMEDIZIN DER JOHANNES GUTENBERG-UNIVERSITÄT MAINZ GEMEINNÜTZIGE GMBH, Freiligrathstrasse 12, 55131, Mainz, Germany ~72: CARINA WALTER;DAVID WEBER;DIANA BAREA ROLDAN;ELIF DIKEN;MARTIN SUCHAN;RUPRECHT KUNER;STEFANIA GANGI MAURICI;UGUR SAHIN~ 33:EP ~31:PCT/EP2019/056185 ~32:12/03/2019

2021/06378 ~ 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 III, Philip, James;NIJJAR, Tarlochan, S.;TAM, Stephen, Jed~ 33:US ~31:62/803,334 ~32:08/02/2019;33:US ~31:62/813,124 ~32:03/03/2019;33:US ~31:62/855,434 ~32:31/05/2019

2021/06386 ~ Complete ~54:AUTOMATIC BARIUM SULFATE SUSPENSION SUPPLY DEVICE ~71:XIANGYA HOSPITAL OF CENTRAL SOUTH UNIVERSITY, Xiangya Hospital, Xiangya Road, Kaifu District, Changsha, Hunan, 410008, People's Republic of China ~72: LIU, Hui;LIU, Yang;LONG, Xueying;YAN, Ang~ 33:CN ~31:202121236306.9 ~32:03/06/2021

2021/06367 ~ Complete ~54:FEED ADDITIVE CAPABLE OF IMPROVING MEAT FLAVOR AND PREPARATION METHOD THEREOF ~71:Qingdao Agricultural University, No.700 Changcheng Road, Chengyang district, Qingdao city, Shandong province, People's Republic of China ~72: Wang Xin;Wu ShuaiCheng;Zhang QiDi~

2021/06384 ~ Complete ~54:MODEL FOR PREDICTING LIP ADHERENCE STRENGTH OF CIGARETTE TIPPING PAPER, AND CONSTRUCTION METHOD AND PREDICTION METHOD THEREFOR ~71:CHINA TOBACCO YUNNAN INDUSTRIAL CO., LTD, No. 367, Hongjin Road, Wuhua District, People's Republic of China ~72: HE, Pei;JIANG, Kunming;JIANG, Wei;LI, Zhenjie;LIU, Chunbo;LIU, Zhihua;SI, Xiaoxi;SU, Zhongbi;YANG, Chen;YANG, Ji;ZHANG, Fengmei;ZHANG, Tao;ZHU, Ruizhi~ 33:CN ~31:202010576789.0 ~32:22/06/2020

2021/06387 ~ Complete ~54:CD40L COMPOSITIONS AND METHODS FOR TUNABLE REGULATION ~71:Obsidian Therapeutics, Inc., 1030 Massachusetts Avenue, Suite 400, CAMBRIDGE 02138, MA, USA, United

States of America ~72: BRIDEAU, Emily;BRISKIN, Michael Joseph;DOLINSKI, Brian;ELPEK, Kutlu Goksu;FLEURY, Michelle Lois;GORI, Jennifer Leah;INNISS, Mara Christine;KASSUM, Tariq A.;LI, Dan Jun;OLS, Michelle Lynn;RICHARDSON, Celeste;SCHEBESTA, Michael;SETHI, Dhruv Kam;SHAMAH, Steven Mark;SUN, Dexue;SURI, Vipin;WEISMAN, Elizabeth Jane~ 33:US ~31:62/815,404 ~32:08/03/2019;33:US ~31:62/835,554 ~32:18/04/2019;33:US ~31:62/860,356 ~32:12/06/2019

2021/06371 ~ Complete ~54:AN UNDERGROUND HANDLING SYSTEM AND ITS LAYOUT METHOD FOR UNDERGROUND CONTAINER LOGISTICS ~71:Shanghai Maritime University, 1550 Haigang Avenue, Pudong, Shanghai, People's Republic of China ~72: Chengji Liang;Daofang Chang;Houjun Lu;Xiaoyuan Hu;Yang Pan;Yinping Gao;Yu Wang;Yue Zhang~ 33:CN ~31:CN202010655494.2 ~32:09/07/2020

2021/06381 ~ Complete ~54:BIOLOGICAL INFORMATION HANDLING ~71:BIOSTRAND BV, FABRIEKSSTRAAT 7, 3930 HAMONT, BELGIUM, Belgium ~72: BRANDS, Ingrid;VAN HYFTE, Arnout;VAN HYFTE, Dirk;VAN HYFTE, Ewald~ 33:BE ~31:BE2019/5077 ~32:07/02/2019;33:EP ~31:19156085.3 ~32:07/02/2019;33:EP ~31:19156086.1 ~32:07/02/2019;33:EP ~31:19190899.5 ~32:08/08/2019;33:EP ~31:19190900.1 ~32:08/08/2019;33:EP ~31:19190901.9 ~32:08/08/2019

2021/06396 ~ Complete ~54:SELECTION OF T CELL RECEPTORS ~71:GRITSTONE BIO, INC., 5959 Horton Street, Suite 300, Emeryville, California, 94608, United States of America ~72: ABUBAKAR JALLOH;CHRISTINE DENISE PALMER;JOSHUA MICHAEL FRANCIS;KARIN JOOSS;MATTHEW JOSEPH DAVIS;MOJCA SKOBERNE~ 33:US ~31:62/812,572 ~32:01/03/2019

2021/06370 ~ Complete ~54:ANTI-ALPHA SYNUCLEIN ANTIBODIES ~71:UCB BIOPHARMA SRL, 60, Allée de la Recherche, 1070, Brussels, Belgium ~72: DANIEL JOHN LIGHTWOOD;DAVID JAMES MCMILLAN;KERRY LOUISE TYSON;LORENZO DE LICHTERVELDE;MARCO KRIEK;PATRICK DOWNEY;PETER CHARLES ELLIOTT;TERENCE SEWARD BAKER~ 33:GB ~31:1720970.1 ~32:15/12/2017

- APPLIED ON 2021/09/02 -

2021/06413 ~ Complete ~54:CUTTING HEAD FOR ROCK CUTTING MACHINE ~71:JOY GLOBAL UNDERGROUND MINING LLC, 40 Pennwood Place, Suite 100, Warrendale, United States of America ~72: CONNELL, Alex;STEWART, Ryan~ 33:US ~31:63/074,835 ~32:04/09/2020

2021/06419 ~ Complete ~54:HERBICIDE FOR INHIBITING WEED IN PEANUT FIELD AND PROCESS FOR PREPARING CAPSULE SUSPENSION ~71:SHANDONG PEANUT RESEARCH INSTITUTE, No. 126 Fushan Road, Licang District, Qingdao City, People's Republic of China ~72: DU, Long;JIANG, Xiaojing;JIAO, Kun;JU, Qian;LI, Xiao;QU, Chunjuan;QU, Mingjing;SHI, Chengren~

2021/06407 ~ Complete ~54:ARTIFICIAL FLOATING ISLAND INTEGRATED WITH WATER PURIFICATION AND LIGHTING SYSTEMS ~71:Xi'an Jinshan Yinshan Technology Co., Ltd., Room 1F306 Unit C0101 Block 1 Chuangye Square 48 Keji Road, Xi'an, Shanxi, 710065, People's Republic of China ~72: Chai Duosheng;Ma Yihua;Shi Qingqing;Sun Xin;Tang Xiao~

2021/06412 ~ Complete ~54:NOVEL SPLIT-TYPE SPROCKET SHAFT ASSEMBLY OF HIGH-POWER SCRAPER ~71:Zhengzhou Research Institute of Mechanical Engineering Co., Ltd., No. 149, science Avenue, High Tech Industrial Development Zone, Zhengzhou, Henan, People's Republic of China ~72: Guangchao Jing;Hongke Chen;Hongsheng Zhai;Xuechuan Fu;Yingjie Xu~

2021/06415 ~ Complete ~54:CYCLIC SULFAMIDE COMPOUNDS AND METHODS OF USING SAME ~71:ASSEMBLY BIOSCIENCES, INC., 11711 N. Meridian Street, Suite 310, Carmel, Indiana, 46032, United States of America ~72: LEE DANIEL ARNOLD;LEPING LI;MARK G BURES;ROOPA RAI;SAMSON

FRANCIS;SIMON NICOLAS HAYDAR;WILLIAM W JR TURNER~ 33:US ~31:62/465,986 ~32:02/03/2017;33:US ~31:62/529,874 ~32:07/07/2017;33:US ~31:62/549,728 ~32:24/08/2017

2021/06425 ~ Complete ~54:STABILIZED FORMULATIONS CONTAINING ANTI-IL-33 ANTIBODIES ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: HU, Qingyan;LIU, Dingjiang~ 33:US ~31:62/821,661 ~32:21/03/2019

2021/06434 ~ Complete ~54:CUSTOMIZED OUTPUT TO OPTIMIZE FOR USER PREFERENCE IN A DISTRIBUTED SYSTEM ~71:MICROSOFT TECHNOLOGY LICENSING, LLC, One Microsoft Way, Redmond, Washington, 98052-6399, United States of America ~72: ANDREAS STOLCKE;DIMITRIOS BASILE DIMITRIADIS;LIJUAN QIN;NANSHAN ZENG;TAKUYA YOSHIOKA;WILLIAM ISAAC HINTHORN;XUEDONG HUANG;ZHUO CHEN~ 33:US ~31:16/398,836 ~32:30/04/2019

2021/06437 ~ Complete ~54:COMPOUND FORM HAVING ENHANCED BIOAVAILABILITY AND FORMULATIONS THEREOF ~71:PTC THERAPEUTICS, INC., 100 Corporate Court, South Plainfield, New Jersey, 07080, United States of America ~72: AKM NASIR UDDIN;MANDAR VASANT DALI;ONKAR SHRIPAD VAZE~ 33:US ~31:62/816,402 ~32:11/03/2019

2021/06409 ~ Complete ~54:THORACIC AORTA COVERED STENT WHICH IS CONVENIENT FOR POSITIONING ~71:Quzhou People's Hospital, No. 2, Zhongloudi, Kecheng District, Quzhou, Zhejiang, People's Republic of China ~72: Guobing Cheng;Jiawen Wu;Mengmeng Zhou;Qiang Hu;Senyan Wu;Sheng Liao;Wei Lu;Xiaoyang Li~ 33:CN ~31:202023152813.2 ~32:24/12/2020

2021/06442 ~ Provisional ~54:NOZZLE DEVICE FOR PUMP DISPENSERS ~71:Andro van Antwerp, 5 Mopanie St, South Africa ~72: Andro van Antwerp~

2021/06399 ~ Provisional ~54:TOUCH SCREEN HAND PERSONAL COMPUTER BUILT IN CAMERA WITH (NFC) RECEIVER AND WIRELESS INTERNET ACCESS. ~71:Ahmed Waseef Saib, 24 Park avenue, Desainager Tongaat Beach, South Africa ~72: Ahmed Waseef Saib~

2021/06403 ~ Provisional ~54:INSURANCE ~71:MARAIS, Jacobus Stephanus, c/o Adams & amp; Adams Attorneys, 4 Daventry Street, Lynnwood Manor, PRETORIA 0081, Gauteng Province, SOUTH AFRICA, South Africa ~72: MARAIS, Jacobus Stephanus~

2021/06429 ~ Complete ~54:SEPARATOR AND METHOD OF SEPARATING ~71:Pharmafilter B.V., IJDok 31, AMSTERDAM 1013MM, THE NETHERLANDS, Netherlands ~72: HOL, Alex;VAN DEN BERG, Eduardo Alexander~ 33:NL ~31:2022846 ~32:01/04/2019

2021/06432 ~ Complete ~54:POWER PLUG RETENTION DEVICE ~71:MICROSOFT TECHNOLOGY LICENSING, LLC, One Microsoft Way, Redmond, Washington, 98052-6399, United States of America ~72: LAWRENCE DALE CANNON~ 33:US ~31:16/384,713 ~32:15/04/2019

2021/06436 ~ Complete ~54:A SALT AND CRYSTAL FORM OF A FAK INHIBITOR ~71:AMPLIA THERAPEUTICS LIMITED, Level 29, 55 Collins Street, Melbourne, Victoria, 3000, Australia ~72: CHRISTOPHER BURNS;JOHN LAMBERT~ 33:AU ~31:2019901050 ~32:28/03/2019

2021/06438 ~ Complete ~54:CHLORIDE-INDUCIBLE PROKARYOTIC EXPRESSION SYSTEM ~71:CELLORYX AG, Hochbergerstrasse 60C, 4057, Basel, Switzerland ~72: HANNA-RIIKKA KÄRKKÄINEN;HARITHA SAMARANAYAKE;IGOR MIERAU;JERE KURKIPURO;JUHA YRJÄNHEIKKI;THOMAS WIRTH;WESLEY SMITH~

2021/06441 ~ Complete ~54:SELF-BAKING ELECTRODE ~71:FERROPEM, 517 avenue de la Boisse, France ~72: BERTHOLLET, Damien;JACOB, Philippe;MORIN, Pierre-Henri~ 33:FR ~31:19/02394 ~32:08/03/2019

2021/06488 ~ Complete ~54:FABRICATED STEEL-CONCRETE COMPOSITE FLOOR SLAB AND AN ASSEMBLY CONNECTION METHOD THEREOF ~71:Hunan City University, No.518, Yingbin East Road, Yiyang, Hunan, People's Republic of China ~72: Zhang Zaihua~

2021/06401 ~ Provisional ~54:A TRANSPARENT DISPLAY ARRANGEMENT FOR INTEGRATION WITH A BASE STRUCTURE ~71:ALENATMIC MEDIA LTD., Unit 15, No. 1 Melrose Boulevard, MELROSE ARCH, Johannesburg 2196, Gauteng Province, SOUTH AFRICA, South Africa ~72: COUDOUNARIS, Andrew Gregory~

2021/06406 ~ Complete ~54:NOVEL COMPOUNDING METHOD FOR HIGH-EFFICIENTLY REMOVING PHOSPHORUS ~71:Liaoning Technical University, No. 47, Zhonghua Road, Xihe District, Fuxin City, Liaoning, 110013, People's Republic of China;Qingdao Ouyi Tiancheng Environmental Engineering Co., Ltd., No. 2503, 25th Floor, Building 216, Changjiang Middle Road, Huangdao District, Qingdao City, Shandong, 266520, People's Republic of China;Qingdao University of Technology, No. 11 Fushun Road, Shibei District, Qingdao, Shandong, 266033, People's Republic of China ~72: BAI, Jichi;LAN, Yunlong;LI, Yan;SHEN, Baohua;TAO, Guiqing;WANG, Zhemeng;XIAO, Liping~ 33:CN ~31:202010922853.6 ~32:04/09/2020

2021/06408 ~ Complete ~54:AN INTEGRATED DEVICE FOR EMBRYO CULTURE AND OPERATION ~71:Qingdao Agricultural University, No. 700, Changcheng Road, Chengyang Dist., Qingdao, Shandong, People's Republic of China ~72: Huatao Li;Wenru Tian;Zhongling Jiang~

2021/06416 ~ Complete ~54:A PULSE SEQUENCE METHOD BASED ON HFM FOR SPEED MEASUREMENT AND RANGING ~71:QINGDAO AGRICULTURAL UNIVERSITY, No.700 Changcheng Road, Chengyang District,Qingdao, People's Republic of China ~72: SONG, Caixia~ 33:CN ~31:202110877576.6 ~32:01/08/2021

2021/06422 ~ Complete ~54:BIOFOULING PROTECTION ~71:BIOFOULING TECHNOLOGIES, INC., 105 Vann Place, Aberdeen, North Carolina, 28315, United States of America ~72: CALCUTT, Lindsey;MCMURRAY, Brian;RALSTON, Emily;SHARPE, Cliff;STEPHENS, Abe;TERMINI, Mike~ 33:US ~31:62/817,873 ~32:13/03/2019;33:IB ~31:PCT/US2019/059546 ~32:01/11/2019

2021/06426 ~ Complete ~54:VECTOR AND METHOD FOR TREATING ANGELMAN SYNDROME ~71:PTC THERAPEUTICS, INC., 100 Corporate Court, Middlesex Business Center, United States of America;UNIVERSITY OF SOUTH FLORIDA, 3802 Spectrum Blvd, Suite 100, United States of America ~72: ARULANANDAM, Antonio;CAO, Liangxian;KIM, Min Jung;NASH, Kevin;WEEBER, Edwin~ 33:US ~31:62/821,442 ~32:21/03/2019

2021/06430 ~ Complete ~54:USE OF GABAA RECEPTOR MODULATORS FOR TREATMENT OF PAIN ~71:NEUROCYCLE THERAPEUTICS, INC., 1 Broadway, Fl. 14, Cambridge, United States of America ~72: HUBBS, Jed;TOCZKO, Matthew~ 33:US ~31:62/819,794 ~32:18/03/2019

2021/06440 ~ Complete ~54:CD3 BINDING MOLECULES ~71:MERUS N.V., Yalelaan 62, Netherlands ~72: VAN LOO, Pieter Fokko~ 33:EP ~31:19166345.9 ~32:29/03/2019;33:EP ~31:19200931.4 ~32:01/10/2019

2021/06405 ~ Complete ~54:SOIL SALINITY AT YELLOW RIVER DELTA INVERSION METHOD BASED ON LANDSAT 8 ~71:Qingdao Agricultural University, 700 Changcheng Road, Chengyang District, Qingdao, Shandong Province, 266109, People's Republic of China ~72: GUO, Zhiqian;ZHANG, Xiaoguang~

2021/06411 ~ Complete ~54:MANUAL AND REMOTE CONTROL DUAL-PURPOSE CONTROL SYSTEM AND OPERATION METHOD SUITABLE FOR DISCHARGING AND CONTROLLING PARTICULATE MATERIALS

FOR AGRICULTURAL VEHICLE ~71:Institute of Agricultural Machinery of Chinese Academy of Tropical Agricultural Sciences, Huxiu Road, Mazhang District, Zhanjiang, Guangdong, People's Republic of China;Zhanjiang Yiwu Agricultural Technology Co., Ltd., Room 109, No. 12 Junmin Road, Huguang Town, Mazhang District, Zhanjiang, Guangdong, People's Republic of China ~72: Jian Liu;Lijiao Wei;Long Zhang;Peng Zhang;Yuan Zhang~

2021/06414 ~ Complete ~54:NOVEL T CELL RECEPTORS AND IMMUNE THERAPY USING THE SAME ~71:immatics biotechnologies GmbH, Paul-Ehrlich-Straße 15, TÜBINGEN 72076, GERMANY, Germany ~72: ALTEN, Leonie;BUNK, Sebastian;MAURER, Dominik;WAGNER, Claudia~ 33:DE ~31:10 2016 123 847.3 ~32:08/12/2016;33:US ~31:62/431,588 ~32:08/12/2016

2021/06423 ~ Complete ~54:USE OF WAKE-UP RECEIVER WITH BLUETOOTH LOW ENERGY ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83, Sweden ~72: DI MARCO, Piergiuseppe;OLSSON, Magnus L.;RIMHAGEN, Thomas;SJÖLAND, Henrik;WILHELMSSON, Leif~ 33:US ~31:62/824,745 ~32:27/03/2019

2021/06431 ~ Complete ~54:A CAP FOR CLOSING A CONTAINER, A COMBINATION OF A CAP AND A NECK ~71:SACMI COOPERATIVA MECCANICI IMOLA SOCIETÀ COOPERATIVA, Via Selice Provinciale 17/A, 40026, Imola (Bologna), Italy ~72: ALESSANDRO FALZONI;VITTORIO BASSI~ 33:IT ~31:102019000012534 ~32:22/07/2019;33:IB ~31:PCT/IB2020/050748 ~32:30/01/2020

2021/06404 ~ Complete ~54:CRUTCH FOR REHABILITATION CARE ~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: He Yinlian;Huang Cuimai;Li Yanfei;Liang Liandan;Wang Jianyuan~

2021/06410 ~ Complete ~54:INTELLIGENT CONTROL SYSTEM FOR WET DESULFURIZATION ~71:Huaneng Power International Inc. Yingkou Power Plant, No. 1, Mingzhu Road, Bayuquan district, Yingkou, Liaoning, 115000, People's Republic of China ~72: Di, Baoxu;Du, Dongming;Gao, Shan;Guo, Chenxi;Guo, Yong;Han, Xi;Hao, Zhiming;Li, Minghan;Li, Qingpeng;Li, Wenjie;Liu, Baoling;Liu, Chang;Mu, Guowei;Song, Xiaohu;Sun, Tao;Sun, Zhongyi;Xu, Zhishuang;Yang, Qingzhi;Zhang, Houchang;Zhang, Zhonghua~ 33:CN ~31:202110113586.2 ~32:27/01/2021

2021/06417 ~ Complete ~54:IMPROVED SYSTEM OF MONITORING VIBRATION OF A BLASTING MODEL TEST FOR A JOINTED ROCK MASS AND METHOD ~71:Anhui University of Science and Technology, 168 Taifeng Street, Shannan New District, Huainan City, Anhui Province , 232001, People's Republic of China ~72: MA, Qinyong;SU, Qingqing;YUAN, Pu~ 33:CN ~31:202011249459.7 ~32:10/11/2020

2021/06420 ~ Complete ~54:SCENTED TEA FILLING GRAIN CAKE AND METHOD FOR MAKING SAME ~71:QINGDAO AGRICULTURAL UNIVERSITY, No.700 Changcheng Road, Chengyang District,Qingdao, People's Republic of China ~72: JIA, Ruobing;LI, Man;MA, Meng;SUN, Qingjie;TIAN, Chao;ZHANG, Mengli~

2021/06489 ~ Complete ~54:COMPOSITE COATING OF TITANIUM ALLOY AND PREPARATION METHOD AND APPLICATION THEREOF ~71:Chinese Academy of Agricultural Mechanization Sciences, NO.1 Beishatan, Deshengmen wai, Beijing, People's Republic of China;Qingdao Institute of Intelligent Navigation and Control, No.17 Shandong Road, Shinan District, Qingdao, Shandong, People's Republic of China ~72: Li Zhendong;Lv Mingli;Ma Xiaobin;Wang Ruijun;Wang Yiqi;Zhan Hua;Zhu Ganluo~

2021/06433 ~ Complete ~54:HYBRID RENDERING ~71:MICROSOFT TECHNOLOGY LICENSING, LLC, One Microsoft Way, Redmond, Washington, 98052-6399, United States of America ~72: ASHRAF AYMAN MICHAIL;BENJAMIN MARKUS THAUT;DAG BIRGER FROMMHOLD;JONATHAN MICHAEL LYONS~ 33:US ~31:16/379,693 ~32:09/04/2019 2021/06402 ~ Provisional ~54:INSURANCE ~71:MARAIS, Jacobus Stephanus, c/o Adams & amp; Adams Attorneys, 4 Daventry Street, Lynnwood Manor, PRETORIA 0081, Gauteng Province, SOUTH AFRICA, South Africa ~72: MARAIS, Jacobus Stephanus~

2021/06400 ~ Provisional ~54:EMULSIFIER COMPOSITIONS ~71:GLENSOL (PTY) LIMITED, 13 Erlswoldway, Saxonwold, South Africa ~72: GREUB, Fritz~

2021/06421 ~ Complete ~54:METHOD FOR EXTRACTING SULFORAPHANE FROM BROCCOLI SEEDS ~71:QINGDAO AGRICULTURAL UNIVERSITY, No.700 Changcheng Road, Chengyang District, Qingdao, People's Republic of China ~72: GUO, Liping;HUANG, Guoqing;LI, Xiaodan;LIU, Yanbin;XIAO, Junxia~

2021/06424 ~ Complete ~54:ARTICULATED RADIATION SHIELDING SYSTEM ~71:INTERVENTION FOR LIFE, LLC, 4007 LAMBERT COVE, BIRMINGHAM, AL 35242, USA, United States of America ~72: COOPER, Lloyd, Guyton, Bowers;FOSTER, Robert, Evans;LIVINGSTON, William, Thomas;PHILLIPS, Foster, D.~ 33:US ~31:62/803,261 ~32:08/02/2019

2021/06427 ~ Complete ~54:METHODS OF TREATING AL AMYLOIDOSIS ~71:PROTHENA BIOSCIENCES LIMITED, 77 Sir John Rogerson's Quay, Block C, Grand Canal Docklands, Ireland ~72: KARP, Carol;KINNEY, Gene;TRIPURANENI, Radhika;ZAGO, Wagner~ 33:US ~31:62/814,252 ~32:05/03/2019;33:US ~31:62/942,722 ~32:02/12/2019

2021/06418 ~ Complete ~54:A DATA SHARING SYSTEM AND METHOD BASED ON DOUBLE-CHAIN TECHNOLOGY IN BLOCKCHAIN ~71:QINGDAO AGRICULTURAL UNIVERSITY, No.700 Changcheng Road, Chengyang District,Qingdao, People's Republic of China ~72: QI, Zhiguo;SONG, Caixia;XU, Pengmin~ 33:CN ~31:202110877562.4 ~32:01/08/2021

2021/06428 ~ Complete ~54:ABIRATERONE-CYCLIC OLIGOMER PHARMACEUTICAL FORMULATIONS AND METHODS OF FORMATION AND ADMINISTRATION THEREOF ~71:BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM, 210 West 7th Street, United States of America;DISPERSOL TECHNOLOGIES, LLC., 111 Cooperative Way, Building 3, Suite 300, United States of America ~72: GALA, Urvi;MILLER, Dave;SPANGENBERG, Angela;WILLIAMS III, Robert O.~ 33:US ~31:62/820,076 ~32:18/03/2019;33:US ~31:62/942,111 ~32:30/11/2019

2021/06435 ~ Complete ~54:COUNTER-ROTATING AXIAL ELECTRIC MOTOR ASSEMBLY ~71:CR FLIGHT L.L.C., 6230 Vernon Way, Carmichael, California, 95608, United States of America ~72: RANDELL J WISHART~ 33:US ~31:62/837,549 ~32:23/04/2019

2021/06439 ~ Complete ~54:ELECTRO-HYDRAULIC ARRANGEMENT FOR AN EARTHMOVING MACHINE ~71:CATERPILLAR INC., 100 NE Adams Street Peoria, United States of America ~72: DUST, Kenneth A.;FERRAZ, John, Jr.;JACKSON, Michael T.~ 33:US ~31:16/294,049 ~32:06/03/2019

- APPLIED ON 2021/09/03 -

2021/06460 ~ Complete ~54:NOVEL SDA SEMI-DRY DESULFURIZATION TOWER ~71:JIANGSU FENGYE TECHNOLOGY ENVIRONMENTAL PROTECTION GROUP CO., LTD, Zhaoguan Jinghang Village, Shaobo Town, Jiangdu District, Yangzhou City, Jiangsu 225000, People's Republic of China ~72: FAN, Rong;HAN, Jun;HUA, Panlong;QIAN, Yucheng;WANG, Kewen;WANG, Wenxuan;ZHU, Junwu~ 33:CN ~31:202110283996.1 ~32:17/03/2021

2021/06461 ~ Complete ~54:LEUCINE, ACETYL LEUCINE, AND RELATED ANALOGS FOR TREATING DISEASE ~71:INTRABIO LTD, Summit House 170, Finchley Road, London NW3 6BP, United Kingdom ~72:

FACTOR, Mallory;FIELDS, Taylor~ 33:US ~31:62/812,987 ~32:02/03/2019;33:US ~31:62/842,296 ~32:02/05/2019;33:US ~31:62/888,894 ~32:19/08/2019;33:US ~31:62/895,144 ~32:03/09/2019

2021/06466 ~ Complete ~54:T CELL RECEPTORS AND METHODS OF USE THEREOF ~71:University Health Network, 190 Elizabeth Street, R. Fraser Elliott Building - Room 1S-417, TORONTO M5G 2C4, ONTARIO, CANADA, Canada ~72: HIRANO, Naoto;MURATA, Kenji;SASO, Kayoko~ 33:US ~31:62/813,644 ~32:04/03/2019

2021/06468 ~ Complete ~54:T CELL RECEPTORS AND METHODS OF USE THEREOF ~71:University Health Network, 190 Elizabeth Street, R. Fraser Elliott Building - Room 1S-417, TORONTO M5G 2C4, ONTARIO, CANADA, Canada ~72: HIRANO, Naoto;MURATA, Kenji;SASO, Kayoko~ 33:US ~31:62/813,647 ~32:04/03/2019

2021/06469 ~ Complete ~54:T CELL RECEPTORS AND METHODS OF USE THEREOF ~71:University Health Network, 190 Elizabeth Street, R. Fraser Elliott Building - Room 1S-417, TORONTO M5G 2C4, ONTARIO, CANADA, Canada ~72: HIRANO, Naoto;MURATA, Kenji;SASO, Kayoko~ 33:US ~31:62/813,650 ~32:04/03/2019

2021/06472 ~ Complete ~54:BENZOTHIADIAZEPINE COMPOUNDS AND THEIR USE AS BILE ACID MODULATORS ~71:Albireo AB, Arvid Wallgrens backe 20, GÖTEBORG 413 46, SWEDEN, Sweden ~72: GILLBERG, Per-Göran;KULKARNI, Santosh S.;MATTSSON, Jan;STARKE, Ingemar~ 33:IN ~31:201911004690 ~32:06/02/2019;33:SE ~31:1950464-6 ~32:12/04/2019;33:IN ~31:201911049981 ~32:04/12/2019

2021/06463 ~ Complete ~54:T CELL RECEPTORS AND METHODS OF USE THEREOF ~71:University Health Network, 190 Elizabeth Street, R. Fraser Elliott Building - Room 1S-417, TORONTO M5G 2C4, ONTARIO, CANADA, Canada ~72: HIRANO, Naoto;MURATA, Kenji;SASO, Kayoko~ 33:US ~31:62/813,639 ~32:04/03/2019

2021/06480 ~ Complete ~54:WAVE-ENERGIZED DIODE PUMP ~71:LONE GULL HOLDINGS, LTD., Suite 258-332, 5331 SW Macacam Avenue, Portland, Oregon, 97239, United States of America ~72: BRIAN LEE MOFFAT;GARTH ALEXANDER SHELDON-COULSON~ 33:US ~31:62/809,566 ~32:23/02/2019;33:US ~31:62/834,964 ~32:17/04/2019;33:US ~31:62/971,963 ~32:08/02/2020;33:US ~31:16/796,724 ~32:20/02/2020

2021/06445 ~ Complete ~54:AUTOMATIC MONITORING DEVICE FOR PEST STICKY BOARD BASED ON MONITORING MOBILE PHONE ~71:China University of Mining and Technology, No. 1 University Road, Tongshan District, Xuzhou City, Jiangsu Province, 221000, People's Republic of China ~72: CHEN, Enhui;ZHAO, Yindi~ 33:CN ~31:202010920283.7 ~32:04/09/2020

2021/06456 ~ Complete ~54:PROTECTIVE INSERT ~71:BODHI APPAREL (PTY) LTD, 100 Pienaar Road, South Africa ~72: FRANK, JOANNE~

2021/06457 ~ Complete ~54:COMPOSITIONS AND METHODS FOR INTRAVITREAL DELIVERY OF POLYNUCLEOTIDES TO RETINAL CONES ~71:ADVERUM BIOTECHNOLOGIES, INC., 1035 O'Brien Drive, Suite A, Menlo Park, California, 94025, United States of America;UNIVERSITY OF WASHINGTON, 4311-11th Avenue NE, Suite 500, Seattle, Washington, 98105, United States of America ~72: JAY NEITZ;MAUREEN NEITZ;THOMAS W CHALBERG~ 33:US ~31:62/127,194 ~32:02/03/2015;33:US ~31:62/134,466 ~32:17/03/2015 2021/06486 ~ Provisional ~54:SCANTODRIVE ~71:DANIEL SERAME MABOYANE, 2520 KGALADI LINK, PROTEA NORTH,, South Africa;HILTON LEHLOHONOLO SEUOE, 1652 LENGENE STREET, PROTEA NORTH,, South Africa ~72: DANIEL SERAME MABOYANE;HILTON LEHLOHONOLO SEUOE~

2021/06455 ~ Complete ~54:METHOD FOR DETERMINING QUEBRACHITOL CONTENT BY HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY-MASS SPECTROMETRY ~71:PLANT PROTECTION RESEARCH INSTITUTE GUANGDONG ACADEMY OF AGRICULTURAL SCIENCES, No. 7 Jinying Road, Tianhe District, Guangzhou, People's Republic of China ~72: CHANG, Hong;LIU, Yanping;SUN, Haibin;WANG, Siwei;WANG, Xiaonan~ 33:CN ~31:202110199282.2 ~32:22/02/2021

2021/06459 ~ Complete ~54:PROCESS FOR PRODUCING FROZEN PLUM SLICES ~71:Fruit Research Institute, Fujian Academy of Agricultural Sciences, Pudang, Xindian Town, Jin'an District, Fuzhou, Fujian, 350000, People's Republic of China ~72: CHEN, Wenguang;FANG, Zhizhen;LIANG, Huadi;LIN, Yanjuan;YE, Xinfu;ZHOU, Danrong~ 33:CN ~31:202110371039.4 ~32:07/04/2021

2021/06443 ~ Provisional ~54:MULTI-INTERFACE SINGLE BACKEND SOCIAL MEDIA SOLUTION ~71:Win Htoo Aung, 135 Somerset Gardens; , Mulbarton Road; , Beverley A/H; , 2191, South Africa ~72: Win Htoo Aung~

2021/06453 ~ Complete ~54:COMPOSITIONS, METHODS AND USES FOR INDUCING VIRAL GROWTH ~71:Takeda Vaccines, Inc., 75 Sidney Street, Cambridge 02139, MA, USA, United States of America ~72: KINNEY, Richard;LIVENGOOD, Jill A.;OSORIO, Jorge;STINCHCOMB, Dan T.;WIGGAN, O'Neil~ 33:US ~31:61/120,262 ~32:05/12/2008

2021/06465 ~ Complete ~54:SPATIALIZED AUDIO CODING WITH INTERPOLATION AND QUANTIFICATION OF ROTATIONS ~71:Orange, 111, quai du Président Roosevelt, ISSY-LES-MOULINEAUX 92130, FRANCE, France ~72: MAHE, Pierre;RAGOT, Stéphane~ 33:EP ~31:19305254.5 ~32:05/03/2019

2021/06473 ~ Complete ~54:METHOD FOR PREPARING INFLUENZA HA SPLIT VACCINE ~71:JAPAN as represented by DIRECTOR GENERAL of National Institute of Infectious Diseases, 23-1, Toyama 1-chome, Shinjuku-ku, TOKYO 162-8640, JAPAN, Japan;Sumitomo Dainippon Pharma Co., Ltd., 6-8, Dosho-machi 2-chome, Chuo-ku, Osaka-shi, OSAKA 5418524, JAPAN, Japan ~72: ADACHI, Yu;ATO, Manabu;TAKAHASHI, Yoshimasa~ 33:JP ~31:2019-038662 ~32:04/03/2019

2021/06483 ~ Complete ~54:PYRAZOLOPYRIDINE COMPOUNDS FOR IRE1 INHIBITION ~71:OPTIKIRA, LLC, 20600 Chagrin Boulevard, Suite 210, Cleveland, Ohio, 44122, United States of America ~72: GEORGE HYND;JON SUTTON;RICHARD KEENAN~ 33:US ~31:62/811,237 ~32:27/02/2019;33:US ~31:62/813,975 ~32:05/03/2019

2021/06448 ~ Complete ~54:BIOCONTROL PREPARATION AND APPLICATION THEREOF IN CONTROL OF PRATYLENCHUS COFFEA ~71:QINGDAO AGRICULTURAL UNIVERSITY, No.700 Changcheng Road, Chengyang District,Qingdao, People's Republic of China;YUNCHENG COUNTY BUREAU OF AGRICULTURE AND RURALAREAS, No. 53 East gate Street, Yuncheng County, Heze City, People's Republic of China ~72: DUAN, Fangmeng;GUO, Lin;ZHANG, Jie~ 33:CN ~31:202110087774.2 ~32:22/01/2021

2021/06451 ~ Complete ~54:PIPE LEAKAGE MONITORING, POSITIONING, AND ALARM SYSTEM ~71:Hebei University of Engineering, No.19 Taiji Road,Economic and Technological Development District, Handan city,Hebei Province, 056038, People's Republic of China ~72: Binjian LI;Jiqun ZHANG;Lixin HE;Zhe QIN;Zheng ZHANG~

2021/06464 ~ Complete ~54:T CELL RECEPTORS AND METHODS OF USE THEREOF ~71:University Health Network, 190 Elizabeth Street, R. Fraser Elliott Building - Room 1S-417, TORONTO M5G 2C4, ONTARIO,

CANADA, Canada ~72: HIRANO, Naoto;MURATA, Kenji;SASO, Kayoko~ 33:US ~31:62/813,642 ~32:04/03/2019

2021/06444 ~ Provisional ~54:SPRAY BOTTLE SUCTION STRAW DEVICE ~71:Stephan Pretorius, 1035 Fish Eagle Street,, Birdwood Estate, South Africa;Susan Mary Pretorius, 1035 Fish Eagle Street,, Birdwood Estate, South Africa ~72: Susan Mary Pretorius~

2021/06450 ~ Complete ~54:SYSTEMS AND METHODS FOR INTEGRATED AND COMPREHENSIVE MANAGEMENT OF CANNABIS PRODUCTS ~71:Vyripharm Enterprises, LLC, 2450 Holcombe Blvd., TMCX+ 230 Houston, TX 77021, United States of America ~72: David J. YANG;Jana RAUVOLFOVA;Jerry L. BRYANT, Jr.;Tori STRONG~ 33:US ~31:16/291,943 ~32:04/03/2019

2021/06478 ~ Complete ~54:CROSSLINKING AGENT FOR AQUEOUS RESIN, LIQUID CONTAINING CROSSLINKING AGENT FOR AQUEOUS RESIN, AND AQUEOUS-RESIN COMPOSITION ~71:NISSHINBO CHEMICAL INC., 2-31-11, Nihonbashi Ningyo-cho, Chuo-ku, Tokyo, 1038650, Japan ~72: NAMI TSUKAMOTO~ 33:JP ~31:2019-039957 ~32:05/03/2019

2021/06485 ~ Provisional ~54:COCHOQUA COIN ~71:ATMORE RODGERS DANIELLE WILLIAMS, NO 30 KOKER BOOM SINGLE ST DUMAS KHILSRIVER, South Africa;ROGER FRANCIS, NO 30 KOKER BOOM SINGLE ST DUMAS KHILSRIVER, South Africa;ROY ARENDS, NO 30 KOKER BOOM SINGLE ST DUMAS KHILSRIVER, South Africa ~72: ATMORE RODGERS DANIELLE WILLIAMS;ROGER FRANCIS;ROY ARENDS~

2021/06487 ~ Provisional ~54:BICAR ~71:LETSEKO ROBERT SELEKA, 10032 MOONG VILLAGE GA-SELEKA, LEPHALALE, South Africa ~72: LETSEKO ROBERT SELEKA~

2021/06447 ~ Complete ~54:PAENIBACILLUS POLYMYXA AND APPLICATION THEREOF ~71:QINGDAO AGRICULTURAL UNIVERSITY, No.700 Changcheng Road, Chengyang District,Qingdao, People's Republic of China ~72: LI, Xiao;LV, Dongzhi;SHI, Qianqian;SONG, Wenwen;YU, Luhan~ 33:CN ~31:202110088697.2 ~32:22/01/2021

2021/06454 ~ Complete ~54:HAIR TREATMENT PROCESS COMPRISING THE APPLICATION OF AN OIL IN WATER EMULSION COMPRISING: AN AQUEOUS PHASE, A FATTY PHASE AND A POLYMER ~71:L'ORÉAL S.A., 14, rue Royale, PARIS 75008, FRANCE, France ~72: DONCK, Simon;ROLFES, Heidi~

2021/06462 ~ Complete ~54:MOP HEAD ~71:TING, Ming-che, No.126, Sec. 2, Guoji Rd., Taoyuan Dist., Taoyuan City, 33072, Taiwan, Province of China ~72: TING, Ming-che~ 33:CN ~31:201910167630.0 ~32:06/03/2019

2021/06470 ~ Complete ~54:T CELL RECEPTORS AND METHODS OF USE THEREOF ~71:University Health Network, 190 Elizabeth Street, R. Fraser Elliott Building - Room 1S-417, TORONTO M5G 2C4, ONTARIO, CANADA, Canada ~72: HIRANO, Naoto;MURATA, Kenji;SASO, Kayoko~ 33:US ~31:62/813,651 ~32:04/03/2019

2021/06476 ~ Complete ~54:METHOD FOR MONITORING A STEELMAKING PROCESS AND ASSOCIATED COMPUTER PROGRAM ~71:ARCELORMITTAL, 24-26, Boulevard d'Avranches, Luxembourg ~72: Damien WAGNER;Jean-Christophe HUBER~

2021/06449 ~ Complete ~54:BREVIBACILLUS AGRI DR2-1 AND APPLICATION THEREOF ~71:QINGDAO AGRICULTURAL UNIVERSITY, No.700 Changcheng Road, Chengyang District,Qingdao, People's Republic of China ~72: SONG, Wenwen;YANG, Siqi;ZHANG, Jie~ 33:CN ~31:202110082616.8 ~32:21/11/2020

2021/06452 ~ Complete ~54:SYSTEMS AND METHODS FOR INTEGRATED AND COMPREHENSIVE MANAGEMENT OF CANNABIS PRODUCTS ~71:Vyripharm Enterprises, LLC, 2450 Holcombe Blvd., Suite X+ 230, United States of America ~72: David J. YANG;Jana RAUVOLFOVA;Jerry L. BRYANT, Jr.;Tori STRONG~ 33:US ~31:16/291,943 ~32:04/03/2019

2021/06467 ~ Complete ~54:T CELL RECEPTORS AND METHODS OF USE THEREOF ~71:University Health Network, 190 Elizabeth Street, R. Fraser Elliott Building - Room 1S-417, TORONTO M5G 2C4, ONTARIO, CANADA, Canada ~72: HIRANO, Naoto;MURATA, Kenji;SASO, Kayoko~ 33:US ~31:62/813,645 ~32:04/03/2019

2021/06479 ~ 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

2021/06484 ~ Provisional ~54:TASTE EVERYTHING ~71:Koena Nocky Motswetsi, 94 Luangwa Street Maokeng Section ,, South Africa ~72: Koena Nocky Motswetsi~

2021/06446 ~ Complete ~54:MIXING OXYGENATION DEVICE FOR WATER QUALITY IMPROVEMENT BASED ON SOLAR ENERGY ~71:Nanjing JumpingWater Environment Technology Co., Ltd., Room 020C, 15F, Block A,B, Golden-Eagle Hanzhong New Town, 1 Hanzhongmen Street, Jianye District, Nanjing , Jiangsu, 210017, People's Republic of China ~72: Chai Duosheng;Gong Ming;Ma Yihua;Shi Qingqing;Sun Xin~

2021/06458 ~ Complete ~54:DOUBLE-LAYER THREE-SECTION GUIDE RAIL PLANAR ROBOT WITH TELESCOPIC ROD ~71:SHANDONG UNIVERSITY OF TECHNOLOGY, Room 313, Block A, Gaochuangyuan, High Tech Zone, Shandong Province, People's Republic of China ~72: GONG, Jinliang;LAN, Yubin;WANG, Wei;ZHANG, Yanfei~ 33:CN ~31:202110038358.3 ~32:12/01/2021

2021/06474 ~ Complete ~54:FLOAT VALVE SYSTEMS AND METHODS FOR CONTROLLING LIQUID LEVEL IN VESSELS ~71:COMETFLO LTD., 16 Ha'Oranim Str., Israel ~72: Emanuel MENDES;Yoseph FELDMAN~ 33:US ~31:62/806,828 ~32:17/02/2019

2021/06482 ~ Complete ~54:ORTHODONTIC BRACKETS ~71:FAB DT LIMITED, 104 Battersea Rise, London, Greater London SW11 1EJ, United Kingdom ~72: PAUL DE GRUCHY GAUDIN;SAMIR MIRESMAIEL MOGHANCHI;TERRY LIONEL DICKERSON~ 33:GB ~31:1901633.6 ~32:06/02/2019

2021/06481 ~ Complete ~54:ANTI-BROWNING FRUIT AND VEGETABLE PROCESSING DEVICE ~71:SHANXI AGRICULTURAL UNIVERSITY SHANXI FUNCTIONAL FOOD RESEARCH INSTITUTE, East Yard, No.79 Longcheng Street, Taiyuan, Shanxi, 030031, People's Republic of China ~72: CHUN YANG;JIANGNING ZHANG;JIANLI WU;JIMING HAN;KAI MAO;QI LI;WEIYING DING;YANG JIN;ZHENG YE~

2021/06471 ~ Complete ~54:FILTER COMPRISING COMMUNICATION MEANS ~71:Zeitgeist Ventures Deutschland GmbH, Bahnhofstraße 65, HAAN 42781, GERMANY, Germany ~72: KRIEGLSTEIN, Tim;PROFESSOR TRAUERNICHT, Gert;SIMPSON JR., Raymond~ 33:DE ~31:10 2019 102 969.4 ~32:06/02/2019

2021/06475 ~ Complete ~54:GEOMATERIAL WEB WITH BIOLOGICAL DEGRADATION PROPERTIES ~71:NAUE GMBH & amp; CO. KG, Gewerbestrasse 2, Germany ~72: Dr. Helge HOYME;Dr. Lars VOLLMERT;Dr. Martin TAZL;Henning EHRENBERG;Norbert VISSING~ 33:EP ~31:19163235.5 ~32:15/03/2019

2021/06477 ~ Complete ~54:AQUEOUS RESIN CROSSLINKING AGENT, AQUEOUS RESIN CROSSLINKING AGENT-CONTAINING LIQUID, AND AQUEOUS RESIN COMPOSITION ~71:NISSHINBO CHEMICAL INC., 2-31-11, Nihonbashi Ningyo-cho, Chuo-ku, Tokyo, 1038650, Japan ~72: NAMI TSUKAMOTO~ 33:JP ~31:2019-039955 ~32:05/03/2019

- APPLIED ON 2021/09/06 -

2021/06496 ~ Complete ~54:SYSTEM AND METHOD FOR PACKAGING MEDICAL STOPPERS CONSISTING OF A CAP AND A PLUG ~71:A. RAYMOND ET CIE, 113 COURS BERRIAT, 38000 GRENOBLE, FRANCE, France ~72: REY, Gaëtan~ 33:FR ~31:FR2009218 ~32:11/09/2020

2021/06501 ~ Complete ~54:A FORMULA FOR TREATING CARDIOVASCULAR AND CEREBROVASCULAR DISEASES AND PREPARATION METHOD THEREOF ~71:Chen Baoliang, Yangzhuang Village, Qiaoji Township, Yucheng County, Shangqiu, Henan, People's Republic of China ~72: Chen Baoliang~

2021/06507 ~ Complete ~54:FERTILIZATION METHOD OF RICE AND WHEAT CROP ROTATION SYSTEM ~71:Qingdao Agricultural University, No. 700, Changcheng Road, Chengyang District, Qingdao City, Shandong Province, 266109, People's Republic of China ~72: DING, Xiaodong;ZENG, Chenxiao;ZENG, Lusheng~

2021/06510 ~ Complete ~54:A GLUTATHIONE-RICH YEAST AND ITS USE FOR PRESERVING WINES ~71:DANSTAR FERMENT AG, Poststrasse 30, Switzerland;UNIVERSITÉ DE BOURGOGNE, Esplanade Erasme, France ~72: BAHUT, Florian;CLUIS, Corinne;COELHO, Christian;GOUGEON, Régis D.;NIKOLANTONAKI, Maria;SIECZKOWSKI, Nathalie;WILDE, Caroline~ 33:EP ~31:19290014.0 ~32:01/03/2019

2021/06518 ~ Complete ~54:THERAPEUTIC MICROVESICLES OF PROBIOTIC BACTERIA ~71:BIOGAIA AB, Kungsbroplan 3A 112 27 Stockholm, Sweden ~72: JOHN BIENENSTOCK;STEFAN ROOS;WOLFGANG KUNZE~ 33:SE ~31:1950483-6 ~32:17/04/2019;33:SE ~31:1951222-7 ~32:25/10/2019

2021/06525 ~ Complete ~54:COMPOUND DISPENSER ~71:DETTORRE, Ross David, 16115 Oak Tree Xing, CHINO HILLS 91709, CA, USA, United States of America ~72: DETTORRE, Ross David~ 33:US ~31:62/919,486 ~32:13/03/2019

2021/06490 ~ Provisional ~54:PROCESS FOR TREATING PLANT AND/OR RAW FOOD MATERIAL ~71:CHEMICAL CONSULTANTS (PTY) LTD, 87 THE RIVER ROAD, BRYANSTON, SANDTON, South Africa ~72: MARAIS, PIERRE GUILLAUME~ 33:ZA ~31:31 ~32:04/09/2021

2021/06493 ~ Provisional ~54:ROTOR ASSEMBLY ~71:MAGNEVANE PORTUGAL LDA., Rua Heliodoro Salgado, 430, Trofa, Portugal ~72: STEPHEN REUBEN NICHOLSON~

2021/06494 ~ Provisional ~54:PERSONAL OBSERVER SYSTEM ~71:Greeneye Consortium (Pty) Ltd, 965 Magadlela Street, South Africa ~72: BENTELE, Robert Sbusiso;MBHELE, Sibusiso;NGWENYA, Masakhane Simiso;NGWENYA, Phumulani Edward~

2021/06498 ~ Complete ~54:FORECASTING SYSTEM, METHOD AND DEVICE FOR PICKUP AND RETURN DEMAND OF PUBLIC BICYCLE ~71:Shanghai Maritime University, 1550 Haigang Avenue, Nanhui, Pudong, Shanghai, People's Republic of China ~72: Bangping Gu;Chuanxu Wang;Guangnian Xiao;Qing'an Cui;Qiongwen Lu;Qunzhen Qu;Ruinan Wang;Yu Xiao;Zihao Wang~ 33:CN ~31:CN202010799933.7 ~32:11/08/2020

2021/06492 ~ Provisional ~54:SYSTEM AND PROCESS FOR DESULPHURISATION OF PYROLYSIS FEEDSTOCKS ~71:STELLENBOSCH UNIVERSITY, Admin B, Victoria Street, South Africa ~72: DU PREEZ, Louis Jacobus;FARZAD, Somayeh;KNOETZE, Johannes Hendrik;STANDER, Adam Johannes~

2021/06504 ~ Complete ~54:AUTOMATIC NAVIGATION, POSITIONING AND ORIENTATION DEVICE FOR AGRICULTURAL MACHINERY ~71:Qingdao Agriculture University, No.700 Changcheng Road, Chengyang District, Qingdao City, Shandong Province, People's Republic of China ~72: Yang Ranbing;Zhang Jian~

2021/06513 ~ Complete ~54:SOLAR RECEIVER ~71:ODQA RENEWABLE ENERGY TECHNOLOGIES LIMITED, 3rd Floor, Office Number 328, 85 Tottenham Court Road, London, W1T 4TQ, United Kingdom ~72: AHMED REFAAT;CHIANG NGAI;EDWIN WOOD;GEDIZ KARACA;PETER IRELAND;TSUN HOLT WONG~ 33:GB ~31:1902154.2 ~32:15/02/2019

2021/06526 ~ Complete ~54:SYSTEM FOR THE RELEASE OF BIOLOGICAL AGENTS IN THE BIOLOGICAL CONTROL OF PESTS ~71:NCB Sistemas Embarcados EIRELI - EPP, Rua Bananeira da Bandeira, 121, SÃO JOSÉ DOS CAMPOS 02340-040, BRAZIL, Brazil ~72: NICODEMOS, Fernando Garcia~ 33:BR ~31:10 2019 003863 2 ~32:25/02/2019

2021/06491 ~ Provisional ~54:UNDERWEAR ~71:Abdool Rehman Ismail KADER, 139 Warangal Road, South Africa ~72: KADER, Abdool Rehman Ismail~

2021/06495 ~ Complete ~54:METHOD FOR CONSTRUCTING GENETIC TRANSFORMATION SYSTEM OF WHITE ROT FUNGI ~71:Jining Medical University, No. 669, Xueyuan Road, Donggang District, People's Republic of China ~72: HU, Futeng;ZHAO, Ying~

2021/06508 ~ Complete ~54:VIBRATION DAMPING COMPRESSOR ~71:ANHUI DYNE AUTO AIR CONDITIONER., LTD, No. 36 Shushan Road, Shoushu Modern Industrial Park, Anhui Province, People's Republic of China ~72: FANG, Yi;WANG, Jianfeng;YANG, Bin~ 33:CN ~31:202110316218.8 ~32:24/03/2021

2021/06515 ~ Complete ~54:ASSAY DEVICE AND METHOD OF USE THEREOF ~71:TRUVIAN SCIENCES, INC., 10300 Campus Point Drive, Suite 190, San Diego, California, 92121, United States of America ~72: ARMANDO TOVAR;DENA MARRINUCCI;FLORENCE YING LEE;IAN VANDERKLEIN;JEFFREY HAWKINS;PETER R DELMENICO~ 33:US ~31:62/810,857 ~32:26/02/2019

2021/06517 ~ Complete ~54:TRANSPARENT OR SEMITRANSPARENT INVERSE MICROLATICES OF POLYACRYLAMIDE AS OIL EMULSION DRIFT REDUCING AGENT ~71:EXACTO, INC., 200 Old Factory Road, Sharon, Wisconsin, 53585, United States of America ~72: FRANKLIN E SEXTON;GLEN R OBEAR;RYAN T STRASH~ 33:US ~31:62/818,443 ~32:14/03/2019

2021/06523 ~ Complete ~54:RNAI AGENTS FOR HEPATITIS B VIRUS INFECTION ~71:Arrowhead Pharmaceuticals, Inc., 177 East Colorado Boulevard, Suite 700, PASADENA 91105, CA, USA, United States of America;Janssen Pharmaceuticals, Inc., 1125 Trenton-Harbourton Road, TITUSVILLE 8560, NJ, USA, United States of America ~72: BEUMONT, Maria Gloria;GIVEN, Bruce D.;HAMILTON, James C.;KALMEIJER, Ronald Cornelis Marie;LENZ, Oliver;SCHLUEP, Thomas~ 33:US ~31:62/802,614 ~32:07/02/2019;33:US ~31:62/853,659 ~32:28/05/2019;33:US ~31:62/932,315 ~32:07/11/2019

2021/06527 ~ Complete ~54:RECOMBINANT CCN DOMAIN PROTEINS AND FUSION PROTEINS ~71:Oslo Universitetssykehus HF, PO Box 4950, Nydalen, OSLO N-0424, NORWAY, Norway ~72: ATTRAMADAL, Håvard;KAASBØLL, Ole Jørgen~ 33:EP ~31:19163970.7 ~32:20/03/2019

2021/06509 ~ Complete ~54:ANTHELMINTIC AZA-BENZOTHIOPHENE AND AZA-BENZOFURAN COMPOUNDS ~71:BOEHRINGER INGELHEIM ANIMAL HEALTH USA INC., 3239 Satellite Blvd., Duluth, Georgia, United States of America;BOEHRINGER INGELHEIM PHARMA GMBH & CO. KG, Bingerstrasse 173, Germany ~72: KOOLMAN, Hannes, Fiepko;LEE, Hyoung, Ik;LONG, Alan~ 33:US ~31:62/820,352 ~32:19/03/2019

2021/06519 ~ Complete ~54:CASPASE INHIBITORS AND METHODS OF USE THEREOF ~71:CONATUS PHARMACEUTICALS INC., 16745 W. Bernardo Drive, Suite 200, San Diego, California, 92127, United States of America ~72: ALFRED P SPADA;MICHAEL MUELLER;ROBERT J TERNANSKY~ 33:US ~31:62/815,270 ~32:07/03/2019

2021/06522 ~ Complete ~54:CORONAVIRUS THERAPEUTIC AGENT INCLUDING ELAEOCARPUS SYLVESTRISEXTRACT AS ACTIVE INGREDIENT ~71:Genencell Co., Ltd., 301, 120, Heungdeokjungang-ro, Giheung-gu, YONGIN-SI 16950, GYEONGGI-DO, REPUBLIC OF KOREA, Republic of Korea ~72: HER, Yang Mi;JEON, Hye Lin;JEONG, Yong Joon;KANG, Se Chan~ 33:KR ~31:10-2020-0113730 ~32:07/09/2020

2021/06511 ~ Complete ~54:JAK INHIBITOR COMPOUND AND USE THEREOF ~71:HENAN MEDINNO PHARMACEUTICAL TECHNOLOGY CO., LTD., 5th Floor, Block A, Building 1, Innovation Park, East District, People's Republic of China ~72: HUANG, Hai;LU, Liang;ZHANG, Jixuan;ZHANG, Longzheng;ZHAO, Saisai~ 33:CN ~31:201910137984.0 ~32:25/02/2019;33:CN ~31:201910877661.5 ~32:17/09/2019

2021/06528 ~ Complete ~54:VECTORS AND EXPRESSION SYSTEMS FOR PRODUCING RECOMBINANT PROTEINS ~71:Amgen Inc., Law Department - Patent Operations, One Amgen Center Drive, THOUSAND OAKS 91320, CA, USA, United States of America ~72: BARKHORDARIAN, Hedieh;DARIS, Kristine Marie;GHATTYVENKATAKRISHNA, Pavan;TEJAMO, Charilyn~ 33:US ~31:62/844,360 ~32:07/05/2019

2021/06500 ~ Complete ~54:DETACHABLE MOBILE NEGATIVE PRESSURE ISOLATION WARD ~71:Guang'an People's Hospital, No.1, Section 4, Binhe Road, Guang'an District, Guang'an City, Sichuan Province, People's Republic of China ~72: Ren Zhangxia;Yang Jingyan;Yang Ning~

2021/06505 ~ Complete ~54:JIETACIN ANALOGUE AND PREPARATION METHOD THEREOF ~71:Shandong Academy of Pesticide Science, No. 234 Beiyuan Street, Jinan City, Shandong Province, People's Republic of China ~72: Dong Wenkai;Han Jintao;Li Jintao;Wang Yingxiu;Zhang Xiaokang;Zhang Xingang~

2021/06516 ~ Complete ~54:RNA-GUIDED DNA INTEGRATION USING TN7-LIKE TRANSPOSONS ~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, United States of America ~72: PHUC HONG VO;SAMUEL HENRY STERNBERG;SANNE EVELINE KLOMPE~ 33:US ~31:62/815,187 ~32:07/03/2019;33:US ~31:62/822,544 ~32:22/03/2019;33:US ~31:62/845,218 ~32:08/05/2019;33:US ~31:62/855,814 ~32:31/05/2019;33:US ~31:62/866,270 ~32:25/06/2019;33:US ~31:62/873,455 ~32:12/07/2019;33:US ~31:62/875,772 ~32:18/07/2019;33:US ~31:62/884,600 ~32:08/08/2019;33:US ~31:62/902,171 ~32:18/09/2019

2021/06531 ~ Complete ~54:STABLE ASCORBIC ACID SOLUTION WITH HIGH WATER CONTENT ~71:Avon Products, Inc., c/o Brian P. McCloskey, 1 Avon Place, SUFFERN 10901, NY, USA, United States of America ~72: CORINTHIAN, Christopher D.;LEEWATER, Cody N.;YADAV, Pradeep H.~ 33:US ~31:62/832,739 ~32:11/04/2019

2021/06497 ~ Complete ~54:ROLLOVER PROTECTION ~71:HAUMAN, Pierre, 16 Ds Van Jaarsveld Street, South Africa ~72: HAUMAN, Pierre~ 33:ZA ~31:2020/03396 ~32:08/06/2020

2021/06502 ~ Complete ~54:LANE CHANGE RECOGNITION AND PREDICTION METHOD, SYSTEM, EQUIPMENT AND STORAGE MEDIUM FOR EXTRACTING VEHICLE TRACKS USING ROADSIDE LIDAR DATA ~71:Shandong University, No.12550 Erhuan East Road, Shizhong District, Jinan City, Shandong, People's Republic of China;Suzhou Research Institute, Shandong University, NO.388 Ruoshui Road, SIP, Suzhou, Jiangsu, People's Republic of China;Traffic Management Research Institute of the Ministry of Public Security, No.88 Qianrong Road, Wuxi City, Jiangsu, People's Republic of China ~72: Hou Fujin;Li Tao;Liu Qun;Ma Zhaoyou;Song Xiuguang;Sun Renjuan;Wu Jianqing;Xu Jiabin;Zhang Hongbo~

2021/06514 ~ Complete ~54:DEVICE AND METHOD FOR FORMING LOCAL DUST-FREE SPACE FOR USE IN MINE ~71:CHINA UNIVERSITY OF MINING AND TECHNOLOGY, No. 1, Daxue Road, Tongshan, Xuzhou, Jiangsu, 221116, People's Republic of China ~72: DUOLEI ZHU;JIAWEI LI;JIFENG JIA;MINGJUN CHEN;MINGRUI ZHANG;PINWEI LIU;XIAOCHUAN LI;XINLI ZHAO;YEFENG JIANG;YI CAO;ZHIHAO LI~ 33:CN ~31:202010070207.1 ~32:21/01/2020

2021/06520 ~ Complete ~54:A PROCESS FOR RECOVERING GOLD FROM ORES ~71:BROMINE COMPOUNDS LTD., P.O. Box 180, Israel ~72: COSTI, Ronny;ELAZARI, Ran;NAIM, Ronen;SERTCHOOK, Hanan~ 33:US ~31:62/817,578 ~32:13/03/2019

2021/06529 ~ Complete ~54:CYCLIN-DEPENDENT KINASE 2 BIOMARKERS AND USES THEREOF ~71:Incyte Corporation, 1801 Augustine Cut-Off, WILMINGTON 19803, DE, USA, United States of America ~72: CHEN, Yingnan;FAVATA, Margaret;LO, Yvonne;SOKOLSKY, Alexander;WINTERTON, Sarah;WU, Liangxing;YAO, Wenqing;YE, Min~ 33:US ~31:62/806,265 ~32:15/02/2019

2021/06503 ~ Complete ~54:GEOTECHNICAL ENGINEERING SAFETY MONITORING AND WARNING SYSTEM ~71:Shandong Ruien Ecological Environment Technology Co., Ltd., Research and Development Center, (Biomedical Technology Industrial Park K519),, East of Gaoxin 2nd Road, South of Jiankang East Street,, Weifang High-tech Zone,, Shandong, , 261000, People's Republic of China ~72: ZHAO, Haiyan~

2021/06506 ~ Complete ~54:BIONIC ROBOT SYSTEM BASED ON DEEP LEARNING ~71:Qingdao University of Science & amp; Technology, 99 Songling Road, Laoshan District, Qingdao, Shandong, People's Republic of China ~72: Sheng Ning;Sun Jun;Zhang Dian~

2021/06521 ~ Complete ~54:TROPANE ALKALOID (TA) PRODUCING NON-PLANT HOST CELLS, AND METHODS OF MAKING AND USING THE SAME ~71:THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY, Office of the General Counsel, United States of America ~72: SMOLKE, Christina D.;SRINIVASAN, Prashanth~ 33:US ~31:62/815,709 ~32:08/03/2019;33:US ~31:62/848,419 ~32:15/05/2019;33:US ~31:62/891,771 ~32:26/08/2019

2021/06524 ~ Complete ~54:INTER-INTRA PREDICTION MODE FOR VIDEO DATA ~71:QUALCOMM Incorporated, ATTN: International IP Administration, 5775 Morehouse Drive, SAN DIEGO 92121-1714, CA, USA, United States of America ~72: KARCZEWICZ, Marta;PHAM VAN, Luong;RAMASUBRAMONIAN, Adarsh Krishnan;VAN DER AUWERA, Geert~ 33:US ~31:62/802,515 ~32:07/02/2019;33:US ~31:16/781,751 ~32:04/02/2020

2021/06530 ~ Complete ~54:HIGH AVIDITY WT1 T CELL RECEPTORS AND USES THEREOF ~71:Fred Hutchinson Cancer Research Center, 1100 Fairview Avenue North, SEATTLE 98109, WA, USA, United States of America ~72: CHAPUIS, Aude G.;GREENBERG, Philip D.;SCHMITT, Thomas M.~ 33:US ~31:62/816,746 ~32:11/03/2019

2021/06499 ~ Complete ~54:APPLICATION OF SANGHUANGPORUS SANGHUANG FERMENTATION BROTH POLYSACCHARIDES IN MEDICAMENTS OF ANTI-AVIAN INFLUENZA VIRUS ~71:Qingdao Agricultural

University, No. 700 Changcheng Road, Chengyang, Qingdao, Shandong, 266109, People's Republic of China ~72: KONG, Chao;TIAN, Xuemei;ZHANG, Guoli~ 33:CN ~31:202110174398.0 ~32:07/02/2021

2021/06512 ~ Complete ~54:CRUSHER ~71:BELKE, Jeffrey Victor, 11 Cowrie Crescent, Australia ~72: BELKE, Jeffrey Victor~ 33:AU ~31:2019900949 ~32:21/03/2019;33:AU ~31:2019902211 ~32:25/06/2019

- APPLIED ON 2021/09/07 -

2021/06544 ~ Complete ~54:PRODUCT QUALITY TESTER FOR ISOTHERMAL QUENCHING FURNACE OF BINDER CLIP ~71:Anhui Science and Technology University, No.9 Donghua Road, Fengyang, Anhui, People's Republic of China ~72: Chen Feng;Guo Chun;Hu Ruizhang;Wei Baoli~

2021/06545 ~ Complete ~54:ORGANIC FERTILIZER FOR IMPROVING RESISTANCE OF SUGARCANE TO RATOON STUNTING DISEASE AND PREPARATION METHOD THEREOF ~71:Guangxi Academy of Agricultural Sciences, 174 Daxue Road, Nanning, Guangxi , 530007, People's Republic of China;Yitian Biotechnology(Hong Kong) Co. Ltd., 111 Apliu Street Sham Shui Po, Kowloon, Hong Kong, People's Republic of China ~72: Tan Hongwei;Wang Gansen~

2021/06546 ~ Complete ~54:MOBILE NURSING BED CAPABLE OF CONVENIENTLY ADJUSTING PATIENTS' POSTURE FOR EMERGENCY DEPARTMENT ~71:The Affiliated Hospital of Youjiang Medical University for Nationalities, No.18 Zhongshan 2nd Road, Youjiang District, Baise City, The Affiliated Hospital of Youjiang Medical University for Nationalities, People's Republic of China ~72: Lin Qiqing;Peng Hao;Ren Jie;Xu Shuzhen~

2021/06549 ~ Complete ~54:MICROORGANISM WITH ENHANCED L-THREONINE PRODUCTION CAPACITY, AND THREONINE PRODUCTION METHOD USING SAME ~71:CJ CHEILJEDANG CORPORATION, 330, DONGHO-RO, JUNG-GU, SEOUL 04560, REP OF KOREA, Republic of Korea ~72: BAEK, Mina;KWON, Su Yon;LEE, Kwang Woo;SON, Seung-ju~ 33:KR ~31:10-2019-0046935 ~32:22/04/2019

2021/06573 ~ Complete ~54:AEROSOL PROVISION DEVICE ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, GREATER LONDON, UNITED KINGDOM, United Kingdom ~72: SAYED, Ashley John;THORSEN, Mitchel;WARREN, Luke James~ 33:US ~31:62/816,326 ~32:11/03/2019

2021/06540 ~ Complete ~54:DEVICE AND METHOD FOR DETECTING MICRO-DAMAGE INSIDE SHIELD TUNNEL SEGMENT ~71:Jinan Rail Transit Group Co., Ltd., No. 5, Jiefang East Road, Lixia District, Jinan City, Shandong Province, People's Republic of China;Shandong Jianzhu University, No. 1000, Fengming Road, Licheng District, Jinan City, Shandong Province, People's Republic of China;Shandong University, No.17923, Jingshi Road, Lixia District, Jinan City, Shandong Province, People's Republic of China ~72: Chen Diyang;Chen Sibin;Dong Wei;Huang Yongliang;Li Hu;Liu Fengzhou;Men Yanqing;Miao Xin;Song Shuguang;Sun Huibin;Sun Shangqu;Wang Jiancai;Wang Jing;Xie Can;Zhang Yanhuan~

2021/06548 ~ Complete ~54:NOVEL PLATFORMS FOR CO-STIMULATION, NOVEL CAR DESIGNS AND OTHER ENHANCEMENTS FOR ADOPTIVE CELLULAR THERAPY ~71:UNIVERSITY OF SOUTHERN CALIFORNIA, 1150 South Olive Street, United States of America ~72: CHAUDHARY, Preet M.~ 33:US ~31:62/564,249 ~32:27/09/2017;33:ZA ~31:2020/02046 ~32:04/05/2020

2021/06564 ~ Complete ~54:METHODS AND COMPOSITIONS FOR CLINICAL EVALUATION OF THERAPEUTIC AGENTS ~71:Janssen Biotech, Inc., 800/850 Ridgeview Drive, HORSHAM 19044, PA, USA, United States of America ~72: LAMOUSE-SMITH, Esi Sama Natya;SABINS, Nina~ 33:US ~31:62/802,732 ~32:08/02/2019 2021/06571 ~ Complete ~54:DEVICE COMPRISING A HOUSING AND A ROTARY ELEMENT MOUNTED IN THE HOUSING SUCH THAT IT BE ROTATED AND AXIALLY SHIFTED ~71:Primetals Technologies Austria GmbH, Turmstraße 44, LINZ 4031, AUSTRIA, Austria ~72: GRABNER, Walter;MOSER, Friedrich~ 33:EP ~31:19164296.6 ~32:21/03/2019

2021/06539 ~ Complete ~54:PROCESS AND SYSTEM FOR MELTING AGGLOMERATES ~71:GREYLING, Frederik Petrus, 5 St George Avenue, Midlands Estate, South Africa ~72: GREYLING, Frederik Petrus~ 33:NL ~31:2026572 ~32:29/09/2020

2021/06553 ~ Complete ~54:EXPANDED FOODSTUFF- OR ANIMAL FEED EXTRUDATE ~71:Daniel SCHAAF, Kirchgasse 36, Germany ~72: Daniel SCHAAF~ 33:DE ~31:10 2019 108 011.8 ~32:28/03/2019

2021/06557 ~ Complete ~54:TUNABLE LASER CHROMIUM-DOPED GADOLINIUM SCANDATE CRYSTAL AND PREPARATION METHOD THEREFOR ~71:NANJING TONGLI CRYSTAL MATERIALS RESEARCH INSTITUTE CO., LTD, No. 22, Jingang Road, Dongping Town, Lishui District, Nanjing, Jiangsu, 210000, People's Republic of China ~72: DONGHAI WANG;JUN XU;NA LI~ 33:CN ~31:201910521122.8 ~32:17/06/2019

2021/06575 ~ Complete ~54:AEROSOL PROVISION SYSTEM AND A METHOD OF PROVIDING AN AEROSOL. ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: MOLONEY, Patrick~ 33:GB ~31:1904843.8 ~32:05/04/2019

2021/06578 ~ Complete ~54:AEROSOL GENERATING SYSTEM ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: MOLONEY, Patrick~ 33:GB ~31:1904845.3 ~32:05/04/2019

2021/06550 ~ Complete ~54:FILTER SEAL ASSEMBLY AND SYSTEM ~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 ~31:62/803,097 ~32:08/02/2019

2021/06552 ~ Complete ~54:COMMUNICATION OF UPLINK CONTROL INFORMATION ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: SEBIRE, Benoist;TURTINEN, Samuli;WU, Chunli~

2021/06554 ~ Complete ~54:COMPANION DIAGNOSTIC ASSAY FOR GLOBO-H RELATED CANCER THERAPY FIELD ~71:OBI PHARMA, INC., 19f., No. 3, Yuanqu, St. Nangang Dist. Taipei City, Taiwan, Province of China ~72: CHEN, I-Ju;CHEN, Yu-Jung;LAI, Ming-Tain;YANG, Ming-Chen;YU, Cheng-Der Tony~ 33:US ~31:62/825,625 ~32:28/03/2019

2021/06556 ~ Complete ~54:ELECTRONIC APPARATUS INCLUDING FOLDABLE CONDUCTIVE PLATE ~71:SAMSUNG ELECTRONICS CO., LTD., 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea ~72: CHUNGKEUN YOO;DONGHYUN YEOM;HARKSANG KIM;SEONGHOON KIM;SUNGHO AHN~ 33:KR ~31:10-2019-0027753 ~32:11/03/2019;33:KR ~31:10-2019-0070106 ~32:13/06/2019

2021/06559 ~ Complete ~54:COMPOSITIONS OF MATTER WITH ACTIVITY TO REMOVE LIPOFUSCIN FROM RETINAL CELLS ~71:CORNELL UNIVERSITY, Center for Technology Licensing, 395 Pine Tree Road, Suite 310 , Ithaca, New York, 14850, United States of America ~72: ENRIQUE RODRIGUEZ BOULAN;MARCELO M NOCIARI~ 33:US ~31:62/814,028 ~32:05/03/2019

2021/06563 ~ Complete ~54:AAV MUTANT HAVING BRAIN-TARGETING PROPERTY ~71:Takara Bio Inc., 4-38, Nojihigashi 7-chome, KUSATSU-SHI 5250058, SHIGA, JAPAN, Japan ~72: ENOKI, Tatsuji;MINENO, Junichi;NISHIE, Toshikazu;TAKASHIMA, Fuyuko;TANAKA, Yoshinori~ 33:JP ~31:2019-082417 ~32:24/04/2019 2021/06565 ~ Complete ~54:AN ARTICLE FOR USE IN AN AEROSOL PROVISION SYSTEM ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: FORSHAW, James;PHILLIPS, Jeremy~ 33:GB ~31:1903272.1 ~32:11/03/2019;33:GB ~31:1918987.7 ~32:20/12/2019

2021/06568 ~ Complete ~54:AEROSOL PROVISION DEVICE ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, GREATER LONDON, UNITED KINGDOM, United Kingdom ~72: SAYED, Ashley John;THORSEN, Mitchel;WARREN, Luke James~ 33:US ~31:62/816,273 ~32:11/03/2019

2021/06572 ~ Complete ~54:AEROSOL PROVISION DEVICE ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, GREATER LONDON, UNITED KINGDOM, United Kingdom ~72: THORSEN, Mitchel~ 33:US ~31:62/816,267 ~32:11/03/2019

2021/06567 ~ Complete ~54:AEROSOL PROVISION DEVICE ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, GREATER LONDON, UNITED KINGDOM, United Kingdom ~72: SAYED, Ashley John;TIDNAM, Matthew;WARREN, Luke James~ 33:GB ~31:1903250.7 ~32:11/03/2019

2021/06537 ~ Provisional ~54:ELECTROMECHANICAL MACHINE WITH COMPENSATING WINDINGS ~71:Jacobus Johannes van der Merwe, 1060 Pierneef Street, Villieria, South Africa ~72: Jacobus Johannes van der Merwe~

2021/06581 ~ Complete ~54:USE OF TOPICAL BRAF INHIBITOR COMPOSITIONS FOR TREATMENT OF RADIATION DERMATITIS ~71:LUTRIS PHARMA LTD., 27 Habarzel St. Building A 6971039, Israel ~72: LOWENTON-SPIER, Noa;SHELACH, Noa~ 33:US ~31:62/804,235 ~32:12/02/2019

2021/06551 ~ Complete ~54:ANTI-BAG2 ANTIBODY AND METHODS OF TREATING CANCER ~71:MEDPACTO, INC., 92, MYEONGDAL-RO, BORIM BUILDING, SEOCHO-GU, SEOUL 06668, KOREA, Republic of Korea ~72: KANG, Dong Woo;KIM, Seong Jin~ 33:KR ~31:10-2019-0016347 ~32:12/02/2019;33:KR ~31:10-2019-0016359 ~32:12/02/2019

2021/06560 ~ Complete ~54:RECOMBINANT ADENO-ASSOCIATED VIRUS VECTORS ~71:STRIDEBIO, INC., 5 Laboratory Drive, Suite 1200, Research Triangle, North Carolina, 27709, United States of America ~72: DANIEL MCCOY;GARRETT E BERRY~ 33:US ~31:62/821,710 ~32:21/03/2019

2021/06562 ~ Complete ~54:METHOD TO CONTROL EXHAUST FUMES ASPIRATION DURING A STEELMAKING PROCESS ~71:ARCELORMITTAL, 24-26, Boulevard d'Avranches, Luxembourg ~72: Gabriel VERGNIEZ;Grégory MAES;Jean-Baptiste PIOT;Jean-François QUENTON~

2021/06566 ~ Complete ~54:AEROSOL PROVISION DEVICE ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, GREATER LONDON, UNITED KINGDOM, United Kingdom ~72: THORSEN, Mitchel~ 33:US ~31:62/816,254 ~32:11/03/2019;33:US ~31:62/816,257 ~32:11/03/2019

2021/06570 ~ Complete ~54:NEUREGULIN-4 COMPOUNDS AND METHODS OF USE ~71:Eli Lilly and Company, Lilly Corporate Center, INDIANAPOLIS 46285, IN, USA, United States of America ~72: DAY, Jonathan Wesley;HEUER, Josef George;MUPPIDI, Avinash;NI, Wei;PANCOOK, James David~ 33:US ~31:62/827,386 ~32:01/04/2019

2021/06574 ~ Complete ~54:WAVE ENERGY CONVERTER CELL ~71:Bombora Wave Power Europe Ltd, The Offices, Cleddau Reach, Pembroke Dock, PEMBROKESHIRE SA72 6UJ, UNITED KINGDOM, United Kingdom ~72: ALGIE, Campbell Robert;HEATH, Dylan;VANCE, Carl Bernard;VIGARS, Paul~ 33:GB ~31:1903230.9 ~32:11/03/2019

2021/06577 ~ Complete ~54:AEROSOL PROVISION SYSTEM ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: AOUN, Walid Abi;BRUTON, Connor;GHANOUNI, Kav;LEAH, Thomas David;MOLONEY, Patrick;REES, Kelly;SPENCER, Alfred Vincent~ 33:GB ~31:1904841.2 ~32:05/04/2019;33:GB ~31:1917439.0 ~32:29/11/2019

2021/06542 ~ Complete ~54:HIGH-PRECISION ELECTRIFIED CONSTANT-TEMPERATURE TEST PAPER AND PREPARATION METHOD THEREOF ~71:Zhejiang University, No. 38 Zheda Road, Xihu District, Hangzhou, Zhejiang, People's Republic of China;Zhejiang University of Science and Technology, No. 318 Liuhe Road, Xihu District, Hangzhou, Zhejiang, People's Republic of China ~72: Li Biha;Sha Lizheng;Xu Yinchao;Zhang Xuejin;Zhao Huifang~

2021/06576 ~ Complete ~54:VAPOUR PROVISION SYSTEM AND CORRESPONDING METHOD ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: CHEN, Shixiang~ 33:GB ~31:1903137.6 ~32:08/03/2019

2021/06555 ~ Complete ~54:CONTAINER HAVING BOX AND SLEEVE WITH LOCKING MECHANISM ~71:PHILIP MORRIS PRODUCTS S.A., Quai Jeanrenaud 3, Switzerland ~72: DAYIOGLU, Onur;LANGE, Ross;POLIER, Julie;SINGH, Digvijay~ 33:EP ~31:19192176.6 ~32:16/08/2019

2021/06543 ~ Complete ~54:PREPARATION METHOD OF CELLULOSE SPONGE REINFORCED BY NANO-CELLULOSE ~71:Zhejiang University of Science and Technology, No. 318 Liuhe Road, Xihu District, Hangzhou, Zhejiang, People's Republic of China ~72: Jin Guangfan;Kou Shunli;Sun Yicheng;Xu Yinchao;Zhu Chunfeng~

2021/06569 ~ Complete ~54:AEROSOL PROVISION DEVICE ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, GREATER LONDON, UNITED KINGDOM, United Kingdom ~72: HALLIDAY, Edward Joseph;SAYED, Ashley John;WARREN, Luke James~ 33:GB ~31:1903245.7 ~32:11/03/2019

2021/06535 ~ Provisional ~54:THUNDERCAT T-CAT NOSE CONE ~71:Lionel Richard Ball, 5 Joyce Close Uitzicht Durbanville, South Africa ~72: Lionel Richard Ball~

2021/06536 ~ Provisional ~54:METHODS AND SYSTEMS FOR MEASURING OPTICAL CHARACTERISTICS OF OBJECTS ~71:University of the Witwatersrand, Johannesburg, 1 Jan Smuts Avenue, Braamfontein, 2001, SOUTH AFRICA, South Africa ~72: BUONO, Wagner Tavares;DUDLEY, Angela;FORBES, Andrew;SINGH, Keshaan~

2021/06547 ~ Complete ~54:A DEVICE FOR HITTING A BALL ~71:WYLDE-BROWNE, Blair, 131 Peninsula Drive, Australia ~72: WYLDE-BROWNE, Blair~ 33:AU ~31:2020903191 ~32:07/09/2020

2021/06582 ~ Provisional ~54:LIGHT NUMBER PLATES ~71:Nkanyiso Dlamini, 1121 Unit BB Imbali, South Africa ~72: Nkanyiso Dlamini~

2021/06558 ~ Complete ~54:METHOD FOR PROCESSING SINGLE CRYSTAL OPTICAL FIBER WITH UNIFORM DIAMETER ~71:NANJING TONGLI CRYSTAL MATERIALS RESEARCH INSTITUTE CO., LTD, No. 22, Jingang Road, Dongping Town, Lishui District, Nanjing, Jiangsu, 210000, People's Republic of China ~72: DONGHAI WANG;DONGZHEN LI;FENG WU;HUILI TANG;JUN XU;PING LUO;QINGGUO WANG;XIAODONG XU~ 33:CN ~31:201910424254.9 ~32:21/05/2019

2021/06561 ~ Complete ~54:INDOOR POSITIONING ALGORITHM BASED ON SWARM INTELLIGENCE PERCEPTION AND MULTI-FUSION TECHNOLOGY ~71:University of Electronic Science and Technology of China, Qingshuihe Campus,No.2006, Xiyuan Ave, West Hi-Tech Zone, Chengdu City, Sichuan Province, People's

Republic of China ~72: Chang Wanxing;Lu Quan;Sun Junshu;Wang Bo;Wang Xiang;Xing Jianchuan;Zhang Luping;Zhang Yurui~ 33:CN ~31:202010309876.X ~32:20/04/2020

2021/06541 ~ Complete ~54:PREPARATION METHOD OF CELLULOSE SPONGE FOR COPPER ION ADSORPTION ~71:Zhejiang University, No. 38 Zheda Road, Xihu District, Hangzhou, Zhejiang, People's Republic of China;Zhejiang University of Science and Technology, No. 318 Liuhe Road, Xihu District, Hangzhou, Zhejiang, People's Republic of China ~72: Guo Daliang;Lin Mingzeng;Sha Lizheng;Xu Yinchao;Zhang Xuejin~

2021/06579 ~ Complete ~54:MODIFIED HYDROXYPROPYL METHYL CELLULOSE FOR ENHANCED CERAMIC TILE ADHESIVE AND PREPARATION METHOD AND APPLICATION THEREOF ~71:SHANDONG ETON NEW MATERIAL CO., LTD, WEST OF THE 8TH ROAD, SHIHENG TOWN, People's Republic of China ~72: AIMEI JIANG;BO TENG;JIANYU ZHAO;KUN TENG;MING ZHAO;QINGHUA LI;ZHAOWU MENG~ 33:CN ~31:202010657589.8 ~32:09/07/2020

2021/06580 ~ Complete ~54:MODIFIED HYDROXYETHYL METHYL CELLULOSE FOR ENHANCED CERAMIC TILE ADHESIVE AND PREPARATION METHOD AND APPLICATION THEREOF ~71:SHANDONG ETON NEW MATERIAL CO., LTD, WEST OF THE 8TH ROAD, SHIHENG TOWN, People's Republic of China ~72: AIMEI JIANG;BO TENG;JIANYU ZHAO;KUN TENG;MING ZHAO;QINGHUA LI;ZHAOWU MENG~ 33:CN ~31:202010658478.9 ~32:09/07/2020

- APPLIED ON 2021/09/08 -

2021/06584 ~ Provisional ~54:A HYBRID MANHOLE COVER ~71:SMART LOCKING LOGIC (PTY) LTD, 87 Regency Drive, Route 21 Corporate Park, IRENE, CENTURION 0157, Gauteng, SOUTH AFRICA, South Africa ~72: OLIVIER, Johan~

2021/06583 ~ Provisional ~54:FINANCIAL MANAGEMENT APPLICATION ~71:JACOBS, Marce Stephen, 10 Headingly, Hutton Gate, MIDSTREAM ESTATE, Centurion 1692, Gauteng Province, SOUTH AFRICA, South Africa;SMITH, Rikus, 16 Weavers Nest, The Wilds, PRETORIA 0081, Gauteng Province, SOUTH AFRICA, South Africa ~72: JACOBS, Marce Stephen;SMITH, Rikus~

2021/06629 ~ Complete ~54:MACROCYCLIC COMPOUNDS AS STING AGONISTS ~71:LUPIN LIMITED, Kalpataru Inspire, 3rd Floor, Off Western Express Highway, India ~72: BANERJEE, Moloy;KALHAPURE, Vaibhav Madhukar;KAMBOJ, Rajender Kumar;KARCHE, Navnath Popat;PALLE, Venkata P.;PATIL, Pradeep Rangrao;RAMDAS, Vidya;VYAVAHARE, Vinod Popatrao;WALKE, Deepak Sahebrao~ 33:IN ~31:201921012258 ~32:28/03/2019;33:IN ~31:201921046194 ~32:13/11/2019

2021/06626 ~ Complete ~54:A POULTRY LITTER-BASED FERTILIZER AND A METHOD FOR MAKING THE POULTRY LITTER-BASED FERTILIZER FROM POULTRY LITTER ~71:PREMIERE FERTILIZER SYSTEMS, LLC, 1304 Country Club Drive, Red Bay, Alabama, 35582, United States of America ~72: ARTHUR R. JR SHIRLEY;MELISSA C HAYES~ 33:US ~31:62/807,924 ~32:20/02/2019;33:US ~31:16/778,046 ~32:31/01/2020

2021/06600 ~ Complete ~54:APPARATUSES, METHODS, AND SYSTEMS FOR VIBRATORY SCREENING ~71:DERRICK CORPORATION, 590 Duke Road, United States of America ~72: COLGROVE, James R.;PERESAN, Michael L.~ 33:US ~31:62/408,514 ~32:14/10/2016;33:US ~31:62/488,293 ~32:21/04/2017

2021/06604 ~ Complete ~54:SYSTEM AND METHOD FOR WAKING UP A CAR CONTROL DEVICE OF AN ELECTRICALLY CONTROLLED PNEUMATIC BRAKING SYSTEM ~71:New York Air Brake, LLC, 748 Starbuck Avenue, United States of America ~72: HALL, Evan;SOCHA, David~ 33:US ~31:16/381,566 ~32:11/04/2019

2021/06610 ~ Complete ~54:SOLID FABRIC CARE COMPOSITIONS AND METHODS FOR THE SAME ~71:Colgate-Palmolive Company, 300 Park Avenue, NEW YORK 10022, NY, USA, United States of America ~72: BARAI, Mayur;JHA, Brajesh;MALDONADO, Raul Arellano;MOHAMMED, Evelyn;MUI, Vivian~

2021/06618 ~ Complete ~54:AEROSOL GENERATION ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, GREATER LONDON, UNITED KINGDOM, United Kingdom ~72: PATON, David~ 33:GB ~31:1903268.9 ~32:11/03/2019

2021/06622 ~ Complete ~54:METHOD FOR EXTRACTING A RADAR EFFECTIVE DETECTION AREA BASED ON REMOTE SENSING IMAGE ~71:NANJING LES CYBERSECURITY AND INFORMATION TECHNOLOGY RESEARCH INSTITUTE CO. LTD., Building 05, Tian'an Digital City, No.36, Yongfeng Avenue, Qinhuai District Nanjing, Jiangsu, 210000, People's Republic of China ~72: HAO ZHENG;JUN WANG;KAI XU;QINGSHAN MAN;SHISHENG ZHOU;YUAN SUI~ 33:CN ~31:201910876479.8 ~32:17/09/2019

2021/06625 ~ Complete ~54:BETA ADRENERGIC AGONIST AND METHODS OF USING THE SAME ~71:CURASEN THERAPEUTICS, INC., 930 Brittan Avenue, #306, San Carlos, California, 94070, United States of America ~72: ANTHONY P FORD;DAVID SCOTT CARTER;JIAXIN YU;WEI CHEN~ 33:US ~31:62/824,876 ~32:27/03/2019;33:US ~31:62/934,482 ~32:12/11/2019

2021/06594 ~ Complete ~54:LYSINE CONJUGATED IMMUNOGLOBULINS ~71:Eisai R&D Management Co., Ltd., 6-10 Koishikawa, 4-chome, Bunkyo-Ku, TOKYO 112-8088, JAPAN, Japan ~72: ALBONE, Earl;SPIDEL, Jared~ 33:US ~31:62/348,410 ~32:10/06/2016

2021/06601 ~ Complete ~54:MULTI-SOURCE INFORMATION FUSION PIPELINED NON-DESTRUCTIVE DETECTION METHOD AND DEVICE FOR AGRICULTURAL PRODUCT ~71:INSTITUTE OF QUALITY STANDARD AND MONITORING TECHNOLOGY FOR AGRO-PRODUCTS OF GUANGDONG ACADEMY OF AGRICULTURAL SCIENCES, NO. 20, JINYING ROAD, TIANHE DISTRICT, GUANGZHOU, People's Republic of China ~72: LIANG, Xin;LU, Huazhong;QIU, Guangjun;XU, Sai~

2021/06609 ~ Complete ~54:ESTROGEN RECEPTOR DEGRADING PROTACS ~71:AstraZeneca AB, SÖDERTÄLJE 151 85, SWEDEN, Sweden ~72: BARLAAM, Bernard Christophe;DIENE, Coura;FALLAN, Charlene;HAYHOW, Thomas George Christopher;NISSINK, Johannes Wilhelmus Maria;SCOTT, James Stewart;YANG, Bin~ 33:US ~31:62/825,924 ~32:29/03/2019

2021/06633 ~ Provisional ~54:TO PROVIDE PROTECTIVE OILY SUBSTANCE COATING VIA VINYL STICKER APPLIED TO DSTV BOARD SURFACE TO ENSURE CONSISTENT VIEWING EVEN UNDER RAINY AND THUNDERSTORMS WEATHER CONDITIONS ~71:Mr Thabang Gratitude Makgahlela, 471 Mokwena Street, Tihabane,, South Africa ~72: Mr Thabang Gratitude Makgahlela~

2021/06585 ~ Provisional ~54:WATER TURBINE ARRANGEMENT ~71:TSHOLOFELO DIBODU, 622 f, Soshanguve, Pretoria, Gauteng, 0152, South Africa ~72: TSHOLOFELO DIBODU~

2021/06586 ~ Provisional ~54:SMOKEABOWL ~71:Wayne H Snyman, Portion 36, Section C, South Africa ~72: Wayne Henri Snyman~

2021/06591 ~ Complete ~54:VIBRATORY STRESS RELIEF CLAMPING DEVICE ~71:Shanghai Maritime University, 1550 Haigang Avenue, Nanhui, Pudong, Shanghai, People's Republic of China ~72: Bangping Gu;Guangnian Xiao;Jintao Lai;Ping Wang;Weichen Shi;Yu Ji;Zhensheng Yang;Zhipeng Huo~ 33:CN ~31:CN202110941329.8 ~32:17/08/2021

2021/06593 ~ Complete ~54:ENERGY-SAVING SELF-CIRCULATING DOMESTIC WASTEWATER PURIFICATION AND LIGHTING SYSTEM ~71:Hebei University of Engineering, No.19 Taiji Road,Economic and Technological Development District, Handan city, Hebei Province, 056038, People's Republic of China ~72: Jialiang CHEN;Lixin HE;Yanping LIU;Zhe QIN;Zheng ZHANG;Zhihui LI~

2021/06596 ~ Complete ~54:A METHOD FOR IDENTIFYING TRAVEL MODE BASED ON GPS TRAJECTORY DATA AND BAYESIAN NETWORK ~71:Shanghai Maritime University, 1550 Haigang Avenue, Nanhui, Pudong, Shanghai, People's Republic of China ~72: Bangping Gu;Chuanxu Wang;Guangnian Xiao;Qing'an Cui;Qiongwen Lu;Qunzhen Qu;Ruinan Wang;Yu Xiao;Zihao Wang~ 33:CN ~31:CN202110777024.8 ~32:09/07/2021

2021/06605 ~ Complete ~54:TORQUE TRANSFER AND CONTROL APPARATUS FOR A DRILLING TOOL ~71:REFLEX INSTRUMENTS ASIA PACIFIC (PTY) LTD, 216 Balcatta Road, Australia ~72: BEACH, Andrew;MOKARAMIAN, Amir~ 33:AU ~31:2019901165 ~32:04/04/2019

2021/06631 ~ Complete ~54:COMPOSITIONS AND METHODS FOR TREATING, AMELIORATING AND PREVENTING H. PYLORI INFECTIONS ~71:BORODY, Thomas Julius, Level 1, 229 Great North Road Five Dock, New South Wales 2046, Australia ~72: BORODY, Thomas Julius~ 33:US ~31:62/835,996 ~32:18/04/2019

2021/06635 ~ Provisional ~54:IMPROVED FREEZE PROTECTION DEVICE TO SOLAR HEATING EQUIPMENT ~71:JOHANNES ANDRIES HARTZENBERG, 22 Elvira Avenue Flamwood, South Africa ~72: JOHANNES ANDRIES HARTZENBERG~

2021/06598 ~ Complete ~54:PORTABLE METHOD AND DEVICE FOR RAPIDLY ACQUIRING INFORMATION ON AGRICULTURAL PRODUCT ~71:INSTITUTE OF QUALITY STANDARD AND MONITORING TECHNOLOGY FOR AGRO-PRODUCTS OF GUANGDONG ACADEMY OF AGRICULTURAL SCIENCES, NO. 20, JINYING ROAD, TIANHE DISTRICT, GUANGZHOU, People's Republic of China ~72: LIANG, Xin;LU, Huazhong;XU, Sai~

2021/06587 ~ Complete ~54:DELIVERY TRAY AND PACKAGING SYSTEM FOR MEDICAL ITEMS ~71:A. RAYMOND ET CIE, 113 COURS BERRIAT, 38000 GRENOBLE, FRANCE, France ~72: REY, Gaëtan~ 33:FR ~31:FR2009215 ~32:11/09/2020

2021/06608 ~ Complete ~54:HSP90-BINDING CONJUGATES AND FORMULATIONS THEREOF ~71:Tarveda Therapeutics, Inc., 134 Coolidge Avenue, WATERTOWN 02472, MA, USA, United States of America ~72: BILODEAU, Mark T.;SAHA, Ashis K.;WHITE, Brian H.~ 33:US ~31:62/828,645 ~32:03/04/2019;33:US ~31:62/986,245 ~32:06/03/2020

2021/06611 ~ Complete ~54:ANTI-AGING COSMETIC COMPOSITION ~71:Givaudan SA, Chemin de la Parfumerie 5, VERNIER 1214, SWITZERLAND, Switzerland ~72: AURIOL, Daniel;REYNAUD, Romain;SCANDOLERA, Amandine~ 33:GB ~31:1904469.2 ~32:29/03/2019

2021/06617 ~ Complete ~54:AEROSOL PROVISION DEVICE ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, GREATER LONDON, UNITED KINGDOM, United Kingdom ~72: ABI AOUN, Walid;BLANDINO, Thomas Paul;HEPWORTH, Richard John;ROACH, Adam;SAYED, Ashley John;WARREN, Luke James;WOODMAN, Thomas Alexander John~ 33:GB ~31:1903251.5 ~32:11/03/2019;33:US ~31:62/816,294 ~32:11/03/2019;33:US ~31:62/816,296 ~32:11/03/2019;33:US ~31:62/816,299 ~32:11/03/2019;33:US ~31:62/816,300 ~32:11/03/2019 2021/06621 ~ Complete ~54:WHITE ORGANIC LIGHT EMITTING DEVICE AND PROCESS FOR PRODUCTION THEREOF ~71:TURUN YLIOPISTO, Yliopistonmäki, Finland ~72: DASKALAKIS, Konstantinos;TÖRMÄ, Päivi~ 33:FI ~31:20195269 ~32:03/04/2019

2021/06634 ~ Provisional ~54:DEVICE TO IMPROVE SOLAR WATER HEATING EQUIPMENT ~71:JOHANNES ANDRIES HARTZENBERG, 22 Elvira Avenue Flamwood Klerksdorp, South Africa ~72: JOHANNES ANDRIES HARTZENBERG~

2021/06588 ~ Complete ~54:NOVEL AUTOMATIC UNDERGROUND EXPLOSION ISOLATION DEVICE WITH ADJUSTABLE OUTER COVER FOR COAL MINE ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, NO.168 TAIFENG STREET, HUAINAN CITY, People's Republic of China ~72: SU, Chang;XIONG, Lei;ZHENG, Xiaokui~ 33:CN ~31:202011210765.X ~32:03/11/2020

2021/06630 ~ Complete ~54:IMPROVED PRINTING OF ENERGETIC MATERIALS ~71:NEDERLANDSE ORGANISATIE VOOR TOEGEPAST- NATUURWETENSCHAPPELIJK ONDERZOEK TNO, Anna van Buerenplein 1, Netherlands ~72: STRAATHOF, Michiel Hannes;VAN BOMMEL, Kjeld Jacobus Cornelis;VAN DRIEL, Christoffel Adrianus~ 33:EP ~31:19161621.8 ~32:08/03/2019

2021/06597 ~ Complete ~54:A METHOD FOR IDENTIFYING TRAVEL MODE BY MEANS OF RULE AND GAUSSIAN PROCESS CLASSIFIER ~71:Shanghai Maritime University, 1550 Haigang Avenue, Nanhui, Pudong, Shanghai, People's Republic of China ~72: Bangping Gu;Chuanxu Wang;Guangnian Xiao;Qing'an Cui;Qiongwen Lu;Qunzhen Qu;Ruinan Wang;Yu Xiao;Zihao Wang~ 33:CN ~31:CN202110109424.1 ~32:25/01/2021

2021/06599 ~ Complete ~54:FLUIDIZED BED DEHYDROGENATION PROCESS FOR LIGHT OLEFIN PRODUCTION ~71:INDIAN OIL CORPORATION LIMITED, Indian Oil Bhavan, India ~72: DOOSA, Hima Bindu;KANATTUKARA VIJAYAN, Bineesh;KAPUR, Gurpreet Singh;LOGANATHAN, Kumaresan;NATH, Vineeth Venu;RAMAKUMAR, Sankara Sri Venkata;SAU, Madhusudan;SUBRAMANI, Saravanan;THAKUR, Ram Mohan~ 33:IN ~31:20202104124 ~32:16/09/2020

2021/06627 ~ Complete ~54:TREATMENT OF HEADACHE USING ANTI-CGRP ANTIBODIES ~71:H. LUNDBECK A/S, Ottiliavej 9, 2500, Valby, Denmark ~72: BARBARA SCHAEFFLER;JEFFREY T L SMITH;JOSEPH HIRMAN;LAHAR MEHTA;ROGER K CADY~ 33:US ~31:62/842,162 ~32:02/05/2019;33:US ~31:62/872,989 ~32:11/07/2019;33:US ~31:PCT/US2020/012781 ~32:08/01/2020

2021/06624 ~ Complete ~54:ANTIBODIES AND METHODS FOR TREATMENT OF INFLUENZA A INFECTION ~71:HUMABS BIOMED SA, Via dei Gaggini, 3, 6500 Bellinzona, Switzerland ~72: DAVIDE CORTI;FABIO BENIGNI~ 33:EP ~31:PCT/EP2019/061134 ~32:30/04/2019

2021/06589 ~ Complete ~54:METHOD FOR RAPID BREEDING OF NEW VARIETY OF CALADIUM BICOLOR ~71:ENVIRONMENTAL HORTICULTURE RESEARCH INSTITUTE, GUANGDONG ACADEMY OF AGRICULTURAL SCIENCES, NO. 1 JINYING EAST 1ST STREET, People's Republic of China ~72: LIU, JINMEI;TAN, JIANJUN;XU, YECHUN;YE, YUANJUN;YOU, YI;ZHONG, RONGHUI;ZHU, GENFA~

2021/06619 ~ Complete ~54:AEROSOL PROVISION DEVICE ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, GREATER LONDON, UNITED KINGDOM, United Kingdom ~72: HALLIDAY, Edward Joseph;SAYED, Ashley John;WARREN, Luke James~ 33:GB ~31:1903247.3 ~32:11/03/2019

2021/06632 ~ Complete ~54:TISSUE POTENCY DETERMINATION THROUGH QUANTITATIVE HISTOMORPHOLOGY ANALYSIS ~71:ENZYVANT THERAPEUTICS GMBH, VIADUKTSTRASSE 8, BASEL, 4051, Switzerland ~72: JOHNSON, MICHAEL THOMAS;MARKS, KRISTIN;TRACY, ALEX;VILLANI, THOMAS, STEPHEN~ 33:US ~31:62/694,829 ~32:06/07/2018

2021/06603 ~ Complete ~54:MODULAR MANIFOLD HAVING AT LEAST TWO CONTROL MODULES FOR CONTROLLING OPERATION OF AT LEAST TWO HYDRAULIC ACTUATORS OF AN EARTHMOVING MACHINE ~71:CATERPILLAR INC., 100 NE Adams Street Peoria, United States of America ~72: FERRAZ, John, Jr.;JACKSON, Michael T.;O'NEILL, William N.~ 33:US ~31:16/299,554 ~32:12/03/2019

2021/06612 ~ Complete ~54:COMPOUNDS AND CONJUGATES THEREOF ~71:MedImmune Limited, Milstein Building, Granta Park, CAMBRIDGE CB21 6GH, CAMBRIDGESHIRE, UNITED KINGDOM, United Kingdom ~72: CAILLEAU, Thais;DICKINSON, Niall;GOUNDRY, William;HOWARD, Philip Wilson;MASTERSON, Luke~ 33:US ~31:62/826,393 ~32:29/03/2019;33:US ~31:62/964,177 ~32:22/01/2020

2021/06615 ~ Complete ~54:PESTICIDALLY ACTIVE DIAZINE-AMIDE COMPOUNDS ~71:Syngenta Crop Protection AG, Rosentalstrasse 67, BASEL 4058, SWITZERLAND, Switzerland ~72: EDMUNDS, Andrew;GAGNEPAIN, Julien Daniel Henri;HALL, Roger Graham;JEANGUENAT, André;KOLLETH KRIEGER, Amandine;LE CHAPELAIN, Camille;PALWE, Shrikant;PHADTE, Mangala;PITTERNA, Thomas;RENDLER, Sebastian;SCARBOROUGH, Christopher Charles;SCHAETZER, Jürgen Harry~ 33:EP ~31:19166323.6 ~32:29/03/2019;33:EP ~31:19204721.5 ~32:22/10/2019;33:EP ~31:20151657.2 ~32:14/01/2020

2021/06592 ~ Complete ~54:THE ACTION SIMULATOR FOR NATIONAL TRADITIONAL MARTIAL ARTS SKILL ATTACKS TRAINING ~71:Zhengzhou University of Aeronautics, No.15 Wenyuan West Road, Longzihu University Park, Zhengdong New District, Zhengzhou, Henan, People's Republic of China ~72: Jia Jun;Qi Wenwen;Wang Chenyu;Wang Yaming;Wang Yanyuan;Xing Jinshan;You Yuandeng;Yuan Shuai;Zhao Yingchao~ 33:CN ~31:202110964524.2 ~32:18/08/2021

2021/06595 ~ Complete ~54:WIFI FINGERPRINT DATABASE UPDATING METHOD BASED ON INERTIAL MEASUREMENT TRACE POINT ~71:CHINA UNIVERSITY OF MINING AND TECHNOLOGY, No. 1, Daxue Road, Tongshan District, Xuzhou City, Jiangsu Province, 221116, People's Republic of China ~72: JIN WANG;MENGYANG CHANG;ZENGKE LI~

2021/06602 ~ Complete ~54:CLAUDIN 6 ANTIBODIES AND USES THEREOF ~71:INTEGRAL MOLECULAR, INC., 3711 MARKET STREET, SUITE 900, PHILADELPHIA, PENNSYLVANIA 19104, USA, United States of America ~72: BARNES, Trevor;CHAMBERS, Ross;CHARPENTIER, Thomas;DORANZ, Benjamin;RUCKER, Joseph;SCRENCI, Brad;STAFFORD, Lewis, J.~ 33:US ~31:62/806,048 ~32:15/02/2019

2021/06606 ~ Complete ~54:SELECTIVE OPTICAL DETECTION OF ORGANIC ANALYTES IN LIQUIDS ~71:QANIKDX OÜ, Sära tee 7, Estonia ~72: BABITSHENKO, Sergei;JÄRV, Jaak;KUZNETSOV, Aleksei;MASTITSKI, Anton~ 33:EE ~31:U201900011 ~32:11/02/2019

2021/06607 ~ Complete ~54:PROCESS FOR THE PRODUCTION OF A COMPOSITE MATERIAL FROM TEXTILE WASTE AND POLYETHYLENE FILM WASTE ~71:VIVE TEXTILE RECYCLING SPÓŁKA Z O.O., ul. Łopuszańska 22, Poland ~72: SERVAAS, Bertus Jan~ 33:PL ~31:P.429361 ~32:22/03/2019

2021/06616 ~ Complete ~54:APPARATUS FOR AEROSOL GENERATING SYSTEM ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, GREATER LONDON, UNITED KINGDOM, United Kingdom ~72: BLANDINO, Thomas Paul;HALLIDAY, Edward Joseph~ 33:US ~31:62/816,291 ~32:11/03/2019

2021/06620 ~ Complete ~54:SUBSCRIPTION TO CHANGES IN POLICY DATA ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), 164 83, Sweden ~72: GARCIA AZORERO, Fuencisla;INIESTA GONZALEZ, Antonio~ 33:EP ~31:19382231.9 ~32:29/03/2019

2021/06590 ~ Complete ~54:METHOD OF LARGE SCALE PRODUCTION OF AGLAONEMA ~71:ENVIRONMENTAL HORTICULTURE RESEARCH INSTITUTE, GUANGDONG ACADEMY OF AGRICULTURAL SCIENCES, NO. 1 JINYING EAST 1ST STREET, People's Republic of China;GUANGDONG JINYING FLOWER SEEDLINGS CO., LTD., NO. 1 JINYING EAST 1ST STREET, People's Republic of China ~72: CHEN, DEHUA;CHEN, JINFENG;CHEN, XIANGLUO;CHEN, YU;LIU, JINMEI;QIN, HONGJIE;YANG, SIYU;YOU, YI;ZHANG, ZHENTIAN;ZHONG, RONGHUI;ZOU, CHUNPING~

2021/06628 ~ Complete ~54:ELECTROLYTIC CELL FOR ELECTROLYTIC TREATMENT OF A LIQUID ~71:A.S.POOL, ZAC de la Rouvelière, France ~72: HUAULT, Jean-François;OSANNO, Nicolas~ 33:FR ~31:1901582 ~32:15/02/2019

2021/06613 ~ Complete ~54:AEROSOL PROVISION SYSTEM ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: MOLONEY, Patrick~ 33:GB ~31:1904846.1 ~32:05/04/2019

2021/06614 ~ Complete ~54:COMPOSITIONS FOR REMOVING NECROTIC OR INFECTED TISSUES FROM BODY SURFACE LESIONS AND FROM ORAL CAVITY ~71:DEBx Medical Holding B.V., Boompjes 40, ROTTERDAM 3011 XB, THE NETHERLANDS, Netherlands ~72: BIGNOZZI, Carlo Alberto;CARINCI, Francesco;COGO, Alberto~

2021/06623 ~ Complete ~54:VIRTUAL AGENT TEAM ~71:THE ANTI-INFLAMMAGING COMPANY AG, Winterthurerstrasse 83, 8006 Zürich, Switzerland ~72: FABIO CAVALLI;FRANCESCO CAVALLI;HANS-LOTHAR ARTH~ 33:EP ~31:19160914.8 ~32:05/03/2019

- APPLIED ON 2021/09/09 -

2021/06642 ~ Complete ~54:POLYMER SAMPLE PREPARATION SYSTEM AND METHOD ~71:Xuzhou College of Industrial Technology, No.1 Xiang wang Road, Gulou District, Xuzhou City, Jiangsu Province, People's Republic of China ~72: Feng Li;Wang Zaixue;Xu Yunhui;Yang Chen;Zang Yanan;Zhang Zhaohong~

2021/06661 ~ Complete ~54:A PROCESS FOR PREPARING WATER-BASED HYBRID NANOFLUID AND ANALYZING THERMAL CONDUCTIVITY ~71:OZTOP, Hakan F., Department of Mechanical Engineering, Technology Faculty, Firat University, Turkey;SAID, Zafar, Sustainable and Renewable Energy Engineering Department, University of Sharjah, P.O. Box, 27272, United Arab Emirates;TIWARI, Arun Kumar, Professor and Head Dept. of Mechanical Engineering, Institute of Engineering & Technology, Sitapur Road, Lucknow, India;TIWARI, Gaurav, Associate Professor, Institute of Pharmacy, Pranveer Singh Institute of Technology, Kalpi Road, Bhaunti, UP, India ~72: OZTOP, Hakan F.;SAID, Zafar;TIWARI, Arun Kumar;TIWARI, Gaurav~

2021/06670 ~ Complete ~54:PEPTIDE-MODIFIED HYBRID RECOMBINANT ADENO-ASSOCIATED VIRUS SEROTYPE BETWEEN AAV9 AND AAVRH74 WITH REDUCED LIVER TROPISM AND INCREASED MUSCLE TRANSDUCTION ~71:Association Institut de Myologie, 47 boulevard de l'Hôpital, PARIS 75013, FRANCE, France;Genethon, 1 bis, rue de l'Internationale, EVRY-COURCOURONNES 91000, FRANCE, France;INSERM (Institut National de la Santé et de la Recherche Médicale), 101, rue de Tolbiac, PARIS 75013, FRANCE, France;Sorbonne Universite, 21 Rue de l'École de Médecine, PARIS 75006, FRANCE, France;Universite d'Evry Val d'Essonne, 23 boulevard François Mitterand, EVRY 91000, FRANCE, France ~72: MINGOZZI, Frederico;RONZITTI, Giuseppe;VIDAL, Patrice~ 33:IB ~31:2019/058560 ~32:04/04/2019

2021/06643 ~ Complete ~54:FINANCIAL TECHNOLOGY RISKS MEASUREMENT SYSTEM BASED ON MULTI-SOURCE BIG DATA FUSION ~71:TWenzhou Business College, Wenzhou Business College, Ouhai District, Wenzhou, Zhejiang Province, People's Republic of China ~72: HaoHuiJun;KuangFangJun;XingJun;Zhang Siyang~

2021/06650 ~ Complete ~54:BOUNCING PREVENTION ASSEMBLY AND BOUNCING PREVENTION METHOD FOR SEED PLANTING ~71:Shandong University of Technology, No. 266, Xincun West Road, Zhangdian District, Zibo, Shandong, 253770, People's Republic of China ~72: CHEN, Meizhou;DIAO, Peisong;LI, Jingyu;WANG, Wenjun;WEI, Maojian;XU, Guangfei;ZHANG, Pengfei;ZHANG, Sihao~ 33:CN ~31:202111035976.9 ~32:06/09/2021

2021/06648 ~ Complete ~54:DEPILATING MACHINE FOR FRESH SHEEPSKIN ~71:Institute of Agro-Food Science and Technology, Shandong Academy of Agricultural Sciences, No.202 Gongye North Road, Licheng District, Jinan, Shandong, People's Republic of China ~72: Du Pengfei;Hu Peng;Hu Xiaoying;Liu Yaobo;Liu Yaotao;Ma Yanli;Ru Yi;Wang Shoujing;Wang Weiting~

2021/06660 ~ Complete ~54:A METHOD AND SYSTEM FOR OPTIMIZATION OF PARTICLE CONCENTRATION LEVELS OF A VARIOUS NANOFLUIDS IN A PLATE HEAT EXCHANGER ~71:GHOSH, Pradyumna, Department of Mechanical Engineering, Indian Institute of Technology (BHU), India;SARKAR, Jahar, Department of Mechanical Engineering, Indian Institute of Technology (BHU), India;TIWARI, Arun Kumar, Mechanical Engineering Department, Institute of Engineering & amp; Technology, Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh, India;TIWARI, Gaurav, Institute of Pharmacy, Pranveer Singh Institute of Technology, Kalpi Road, Bhaunti, UP, India ~72: GHOSH, Pradyumna;SARKAR, Jahar;TIWARI, Arun Kumar;TIWARI, Gaurav~

2021/06640 ~ Provisional ~54:RIFLE SAFE ~71:BIAGI SAGA TECHNOLOGIES (PTY) LTD, PO BOX 12556, BENORYN, South Africa ~72: KUISIS, Gerald~

2021/06651 ~ 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: CAO, Hengchu;CHEN, Jensen;DELGADO, Sergio;DIXON, Eric Robert;DOMINICK, Douglas Thomas;FRESCHAUF, Lauren R.;MORATORIO, Guillermo W.~ 33:US ~31:62/486,835 ~32:18/04/2017;33:US ~31:15/884,193 ~32:30/01/2018;33:US ~31:15/909,803 ~32:01/03/2018;33:US ~31:15/910,951 ~32:02/03/2018;33:US ~31:15/914,143 ~32:07/03/2018;33:US ~31:15/927,814 ~32:21/03/2018;33:US ~31:15/946,604 ~32:05/04/2018;33:US ~31:15/953,220 ~32:13/04/2018;33:US ~31:15/953,263 ~32:13/04/2018;33:US ~31:15/953,283 ~32:13/04/2018

2021/06669 ~ Complete ~54:METHODS AND COMPOSITIONS FOR EDITING NUCLEOTIDE SEQUENCES ~71:President and Fellows of Harvard College, 600 Atlantic Avenue, BOSTON 02138, MA, USA, United States of America;The Broad Institute, Inc., 415 Main Street, CAMBRIDGE 02142, MA, USA, United States of America ~72: ANZALONE, Andrew Vito;LIU, David R.;NELSON, James;RANDOLPH, Peyton~ 33:US ~31:62/820,813 ~32:19/03/2019;33:US ~31:62/858,958 ~32:07/06/2019;33:US ~31:62/889,996 ~32:21/08/2019;33:US ~31:62/922,654 ~32:21/08/2019;33:US ~31:62/913,553 ~32:10/10/2019;33:US ~31:62/973,558 ~32:10/10/2019;33:US ~31:62/931,195 ~32:05/11/2019;33:US ~31:62/944,231 ~32:05/12/2019;33:US ~31:62/974,537 ~32:05/12/2019;33:US ~31:62/991,069 ~32:17/03/2020;33:US ~31:63/100,548 ~32:17/03/2020

2021/06675 ~ Complete ~54:COMPOSITION COMPRISING A MIXTURE OF DNA MOLECULES, USES THEREOF AS BIOLOGICAL INHIBITOR AND METHOD FOR PRODUCTION ~71:KOPPERT B.V., Veilingweg 14 2651 BE Berkel en Rodenrijs, Netherlands ~72: HARALD GIJSBERT MIKKELSEN;MARCELLO MARIA DIANO;MATTEO LORITO;STEFANO MAZZOLENI~ 33:NL ~31:2022581 ~32:14/02/2019

2021/06639 ~ Provisional ~54:TEMPORARY STOPE SUPPORT UNIT - TEMPORARY AND PERMANENT ~71:Frans Roelof Petrus Pienaar / Mark Howell, 10 Vegkop Street, Noordheuwel, South Africa ~72: Frans Roelof Petrus Pienaar / Mark Howell~

2021/06684 ~ Complete ~54:CUTTER STATE MONITORING AND CONTROL SYSTEM AND METHOD FOR NUMERICAL CONTROL MACHINE TOOL ~71:JIANGNAN UNIVERSITY, No. 1800, Lihu Avenue Wuxi, People's Republic of China;NINGBO SANHAN ALLOY MATERIAL CO., LTD., No.333, LianTang Road, Binhai Cixi Economic Development Zone Ningbo, People's Republic of China;QINGDAO UNIVERSITY OF TECHNOLOGY, No. 777, Jialingjiang Road, Economic and Technological Development Zone, Qingdao, People's Republic of China ~72: CAO, Huajun;CHEN, Shuai;GAO, Teng;HONG, Huaping;HOU, Yali;JI, Weixi;LI, Changhe;LI, Haogang;LU, Bingheng;LUO, Huiming;LUO, Liang;MA, Wuxing;TANG, Lizhi;WAN, Binhui;XU, Haizhou;XU, Jie;YANG, Min;YIN, Shuo;ZHANG, Yanbin~ 33:CN ~31:202010108296.4 ~32:21/02/2020

2021/06644 ~ Complete ~54:CLAMP AND METHOD FOR MEASURING THE TENSILE STRENGTH OF ROCK BY RECTANGULAR SPECIMEN SPLITTING METHOD ~71:Shandong University of Science and Technology, No. 579, Qianwangang Road, Huangdao District, Qingdao, Shandong, People's Republic of China ~72: Li Qiuyan;Liu Hao;Lyu Xianzhou;Wang Weiming;Wang Yonglin;Zhao Zenghui~

2021/06652 ~ 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: CAO, Hengchu;CHEN, Jensen;DELGADO, Sergio;DIXON, Eric Robert;DOMINICK, Douglas Thomas;FRESCHAUF, Lauren R.;MORATORIO, Guillermo W.~ 33:US ~31:62/486,835 ~32:18/04/2017;33:US ~31:15/884,193 ~32:30/01/2018;33:US ~31:15/909,803 ~32:01/03/2018;33:US ~31:15/910,951 ~32:02/03/2018;33:US ~31:15/914,143 ~32:07/03/2018;33:US ~31:15/927,814 ~32:21/03/2018;33:US ~31:15/946,604 ~32:05/04/2018;33:US ~31:15/953,220 ~32:13/04/2018;33:US ~31:15/953,263 ~32:13/04/2018;33:US ~31:15/953,283 ~32:13/04/2018

2021/06666 ~ Complete ~54:TOBACCO COMPOSITION COMPRISING A TOBACCO COMPONENT AND AN AEROSOL FORMING MATERIAL ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: SEBOLD, Valerio~ 33:GB ~31:1903287.9 ~32:11/03/2019

2021/06638 ~ Provisional ~54:PUMPABLE STRUCTURE. WITHOUT ELONGATE ~71:Frans Roelof Petrus Pienaar / Mark Howell, 10 Vegkop Street, Noordheuwel, South Africa ~72: Frans Roelof Petrus Pienaar / Mark Howell~

2021/06653 ~ 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: CAO, Hengchu;CHEN, Jensen;DELGADO, Sergio;DIXON, Eric Robert;DOMINICK, Douglas Thomas;FRESCHAUF, Lauren R.;MORATORIO, Guillermo W.~ 33:US ~31:62/486,835 ~32:18/04/2017;33:US ~31:15/884,193 ~32:30/01/2018;33:US ~31:15/909,803 ~32:01/03/2018;33:US ~31:15/910,951 ~32:02/03/2018;33:US ~31:15/914,143 ~32:07/03/2018;33:US ~31:15/927,814 ~32:21/03/2018;33:US ~31:15/946,604 ~32:05/04/2018;33:US ~31:15/953,220 ~32:13/04/2018;33:US ~31:15/953,263 ~32:13/04/2018;33:US ~31:15/953,283 ~32:13/04/2018

2021/06658 ~ Complete ~54:ELECTROMECHANICAL DRUM BRAKE HAVING INTEGRATED FUNCTIONS OF SERVICE BRAKE AND PARKING BRAKE ~71:Shanxi Automobile Huainan Special Automobile Co., Ltd, Jixing

Road, Economic and Technological Development Zone,, People's Republic of China ~72: FENG, Peng;WANG, Jianye;WANG, Xuanyao~

2021/06679 ~ Complete ~54:IMPROVED THREE-PIECE CONTAINER ASSEMBLY ~71:BWAY CORPORATION, 8607 Roberts Drive, United States of America ~72: HOMAN, John;LUBURIC, Frano~ 33:US ~31:62/810,709 ~32:26/02/2019

2021/06657 ~ Complete ~54:BINDER FOR AN AGGLOMERATION PROCESS ~71:MINTEK, 200 Malibongwe Drive, South Africa ~72: BASSON, Petrus;MXINWA, Sibabalwe;NDHLALOSE, Mpumelelo Success;NXUMALO, Duduzile Nontobeko;ROBERTSON, Stefan Walters~ 33:ZA ~31:2020/05688 ~32:14/09/2020

2021/06659 ~ Complete ~54:METHOD FOR DETERMINING MICROSEISMIC PARAMETER THRESHOLD OF ROCKBURST INTENSITY WARNING ~71:GUANGXI UNIVERSITY, No. 100 Daxue East Road, Xixiangtang District, Nanning City, Guangxi, 530004, People's Republic of China;INSTITUTE OF ROCK AND SOIL MECHANICS, CHINESE ACADEMY OF SCIENCES, No. 2 Xiaohongshan, Shuiguo Street, Wuchang District, Wuhan City, Hubei Province, 430071, People's Republic of China ~72: FENG, Guangliang;JIANG, Quan;MA, Qi;NIU, Wenjing;SU, Guoshao~

2021/06665 ~ Complete ~54:AEROSOL PROVISION DEVICE ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, GREATER LONDON, UNITED KINGDOM, United Kingdom ~72: SAYED, Ashley John;THORSEN, Mitchel;WARREN, Luke James;WOODMAN, Thomas Alexander John~ 33:US ~31:62/816,314 ~32:11/03/2019

2021/06686 ~ Complete ~54:SPIRAL DISPERSING AND CYCLONE GRADING TYPE GRADING AND PACKAGING SYSTEM AND METHOD FOR PEANUT SHELL SUPERFINE POWDER ~71:HENAN UNIVERSITY OF SCIENCE AND TECHNOLOGY, No. 263, Kaiyuan Avenue Luoyang, People's Republic of China;QINGDAO UNIVERSITY OF TECHNOLOGY, No. 777, Jialingjiang Road, Economic and Technological Development Zone, Qingdao, People's Republic of China;RESEARCH INSTITUTE OF AGRICULTURAL MECHANIZATION, XINJIANG ACADEMY OF AGRICULTURAL SCIENCES, No. 403, Nanchang Road Urumqi, People's Republic of China ~72: HOU, Yali;LI, Changhe;LI, Xinping;LIU, Mingzheng;LIU, Xiangdong;WANG, Xiaoming;YANG, Huimin;ZHANG, Yanbin~ 33:CN ~31:202010286124.6 ~32:13/04/2020

2021/06647 ~ Complete ~54:PROTON EXCHANGE MEMBRANE FUEL CELL ~71:Qingdao University of Science and Technology, 99 Songling Road, Laoshan District, Qingdao, Shandong Province, 266100, People's Republic of China ~72: CHEN, Hongbo;GUO, Lei;HAN, Wenwen;LIU, Haichao;LIU, Miaomiao;WANG, Chuansheng~ 33:CN ~31:202011232841.7 ~32:06/11/2020

2021/06656 ~ Complete ~54:SINGLE LIGHT SOURCE, TWO-OPTICAL CHANNEL SEQUENCING ~71:ILLUMINA CAMBRIDGE LIMITED, Chesterford Research Park, Little Chesterford, United Kingdom;ILLUMINA, INC., 5200 Illumina Way, United States of America ~72: LANGLOIS, Robert;LIU, Xiaohai;VIECELI, John~ 33:US ~31:62/468,242 ~32:07/03/2017

2021/06667 ~ Complete ~54:VAPOUR PROVISION SYSTEM AND CORRESPONDING METHOD ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: SUTTON, Joseph~ 33:GB ~31:1905250.5 ~32:12/04/2019

2021/06674 ~ Complete ~54:GAS FERMENTATION FOR THE PRODUCTION OF PROTEIN-BASED BIOPLASTICS ~71:LANZATECH, INC., 8045 Lamon Avenue, Suite 400, Skokie, Illinois, 60077, United States of America ~72: SUZANE AIME VIEIRA CARNEIRO;WYATT ALLEN~ 33:US ~31:62/818,579 ~32:14/03/2019 2021/06677 ~ Complete ~54:HAIR STYLING DEVICE ~71:JAPHAM GROUP LIMITED, First Floor Woburn Court, 2 Railton Road, Woburn Road Industrial Estate, United Kingdom ~72: DEBENEDICTIS, Alfredo;HARRIS, Martin Malcolm;HOLLAND, Janusz Lucien;HUGHES, Mark Christopher;NELSON, James Robert;SOREN, Suraj~ 33:GB ~31:1902443.9 ~32:22/02/2019

2021/06680 ~ Complete ~54:METHOD AND DEVICE FOR MANUFACTURING A PIPE SHELL FROM AN INSULATING MATERIAL ~71:SAINT-GOBAIN ISOVER, Les Miroirs 18, avenue d'Alsace, France ~72: HÖLLER, Hans-Joachim;LECOMTE, Romain;LIGTENBERG, Harald;WESELY, Nikolaus~ 33:DE ~31:10 2019 103 498.1 ~32:12/02/2019

2021/06683 ~ Complete ~54:DRYING DEVICE AND DISCHARGING EQUIPMENT USED IN PRODUCTION PROCESS OF CA ABRASIVE ~71:QINGDAO SISA ABRASIVES CO., LTD., Qianwangang Road, Huangdao District, Qingdao, People's Republic of China;QINGDAO UNIVERSITY OF TECHNOLOGY, No. 777, Jialingjiang Road, Economic and Technological Development Zone, Qingdao, People's Republic of China ~72: CAO, Huajun;CUI, Xin;GAO, Teng;HOU, Yali;HUANG, Baoteng;LI, Changhe;LI, Runze;LIU, Mingzheng;LU, Bingheng;WANG, Xiaoming;WANG, Zhen;YANG, Min;ZHAI, Han;ZHANG, Naiqing;ZHANG, Yanbin~ 33:CN ~31:201910817682.8 ~32:30/08/2019

2021/06636 ~ Provisional ~54:AN APPARATUS FOR AND A METHOD OF DESHELLING NUTS ~71:HG MOLENAAR & amp; CO (PTY) LTD., Jan van Riebeeck Drive, PAARL 7622, SOUTH AFRICA, South Africa ~72: MOLENAAR, Cornelis Jacobus; MOLENAAR, Martin Werner; THRING, Tom Lawrence~

2021/06654 ~ Complete ~54:MICROORGANISMS AND ARTIFICIAL ECOSYSTEMS FOR THE PRODUCTION OF PROTEIN, FOOD, AND USEFUL CO-PRODUCTS FROM C1 SUBSTRATES ~71:KIVERDI, INC., 3946 Trust Way, Hayward, California, 94545, United States of America ~72: JIL GELLER;JOHN S REED;SONALI HANDE~ 33:US ~31:62/310,705 ~32:19/03/2016;33:US ~31:62/454,347 ~32:03/02/2017

2021/06678 ~ Complete ~54:CONTAINER AND SEAL ASSEMBLY ~71:BWAY CORPORATION, 8607 Roberts Drive, United States of America ~72: HOMAN, John;LUBURIC, Frano~ 33:US ~31:62/810,709 ~32:26/02/2019

2021/06649 ~ Complete ~54:PYROELECTRIC CATALYST FOR TREATING DYE EFFLUENT UNDER ALTERNATING COLD AND HOT AT AMBIENT TEMPERATURE, PREPARATION METHOD AND APPLICATION THEREOF ~71:Guilin University of Technology, 12 Jiangan Road, Qixing District, Guilin City, Guangxi, People's Republic of China ~72: Fang Liang;Guo Xiaoying;Hu Changzheng;Ji Rui;Sun Chaozhong~

2021/06664 ~ Complete ~54:INTRA SUB-PARTITIONS IN VIDEO CODING ~71:VID SCALE, INC., 200 Bellevue Parkway, United States of America ~72: HE, Yuwen;VANAM, Rahul;YANG, Hua~ 33:US ~31:62/816,548 ~32:11/03/2019;33:US ~31:62/860,122 ~32:11/06/2019

2021/06668 ~ Complete ~54:POLYMORPHS AND COCRYSTALS OF A CARDIAC TROPONIN ACTIVATOR ~71:Amgen Inc., One Amgen Center Drive, THOUSAND OAKS 91320-1799, CA, USA, United States of America;Cytokinetics, Inc., 280 E. Grand Ave., SOUTH SAN FRANCISCO 94080, CA, USA, United States of America ~72: AZALI, Stephanie;CHAVES, Mary;KELLY, Ron C.;MENNEN, Steven M.;REID, Darren L.;SULEIMAN, Osama;WILSILY, Ashraf;WRIGHT, Mark~ 33:US ~31:62/817,165 ~32:12/03/2019

2021/06672 ~ Complete ~54:METHOD FOR HYDROLYSIS OF LACTIC ACID FOR AEROSOL DELIVERY DEVICE ~71:RAI STRATEGIC HOLDINGS, INC., 401 North Main Street, United States of America ~72: DULL, Gary M.;MOLDOVEANU, Serban C.;POOLE, Thomas H.;ST. CHARLES, Frank Kelley~ 33:US ~31:62/815,666 ~32:08/03/2019 2021/06645 ~ Complete ~54:INDIRECT EXTRUSION TYPE 3D PRINTING METHOD OF TITANIUM ALLOYS ~71:Lishui University, No.1 Xueyuan Road, Lishui, Zhejiang, 323000, People's Republic of China ~72: LIN, Yunfeng;SU, Yongjun;XU, Peng;YE, Xiaoping;ZHANG, Na~

2021/06655 ~ Complete ~54:INERTIAL HYDRODYNAMIC PUMP AND WAVE ENGINE ~71:LONE GULL HOLDINGS, LTD., Suite 258-332, 5331 SW Macacam Avenue, Portland, Oregon, 97239, United States of America ~72: BRIAN LEE MOFFAT;DANIEL WILLIAM PLACE;GARTH ALEXANDER SHELDON-COULSON~ 33:US ~31:62/718,383 ~32:14/08/2018;33:US ~31:62/719,648 ~32:18/08/2018;33:US ~31:62/724,629 ~32:30/08/2018;33:US ~31:62/739,190 ~32:29/09/2018;33:US ~31:62/755,427 ~32:03/11/2018;33:US ~31:62/768,968 ~32:18/11/2018;33:US ~31:62/831,202 ~32:09/04/2019;33:US ~31:16/538,472 ~32:12/08/2019

2021/06662 ~ Complete ~54:SALT OF TRIPHOSPHATE PHOSPHORAMIDATES OF NUCLEOTIDES AS ANTICANCER COMPOUNDS ~71:NUCANA PLC, 3 Lochside Way, United Kingdom ~72: DI CIANO, Samuele;GRIFFITH, Hugh;PERTUSATI, Fabrizio;SERPI, Michaela;SLUSARCZYK, Magdalena~ 33:GB ~31:1904544.2 ~32:01/04/2019

2021/06673 ~ Complete ~54:SALIVARY BIOMARKERS OF BRAIN INJURY ~71:MARKER DIAGNOSTICS UK LIMITED, St. Bride's House, 10 Salisbury Square , London, EC4Y 8EH, United Kingdom ~72: ANTONIO BELLI;VALENTINA DI PIETRO~ 33:US ~31:62/805,761 ~32:14/02/2019;33:US ~31:62/884,104 ~32:07/08/2019

2021/06676 ~ Complete ~54:LOCKING DEVICE FOR COUPLING A WEAR ELEMENT TO A SUPPORT IN AN EARTH MOVING MACHINE ~71:METALOGENIA RESEARCH & amp; TECHNOLOGIES S.L., Àvila 45, 08005, Barcelona, Spain ~72: JOSÉ LÓPEZ ALMENDROS;JUSTO JESÚS ORTIZ GARCÍA;KAMAL BOBOUH ABAKOUY~ 33:ES ~31:PCT/ES2019/070224 ~32:03/04/2019

2021/06682 ~ Complete ~54:INTELLIGENT SEED PRODUCTION DEVICE AND METHOD BASED ON MULTI-STAGE ADAPTIVE POSITIONING AND BUD EYE RECOGNITION ~71:INNER MONGOLIA UNIVERSITY FOR NATIONALITIES, No. 536, Huolinhe Street, Horqin District Tongliao, People's Republic of China;QINGDAO UNIVERSITY OF TECHNOLOGY, No. 777, Jialingjiang Road, Economic and Technological Development Zone, Qingdao, People's Republic of China ~72: HOU, Yali;JIA, Dongzhou;LI, Changhe;WANG, Yucheng;YANG, Min;ZHANG, Yanbin;ZHAO, Huayang~ 33:CN ~31:201910452452.6 ~32:28/05/2019

2021/06641 ~ Provisional ~54:PLANT-BASED RECOMBINANT PROTEIN EXPRESSION SYSTEM ~71:COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH, Meiring Naudé Road, South Africa ~72: Advaita Acarya SINGH;Juan Barend VORSTER;Karl Josef KUNERT;Priyen PILLAY;Rachel Kerina CHIKWAMBA;Tsepo Lebiletsa TSEKOA~

2021/06681 ~ Complete ~54:IMMUNOMODULATING MESENCHYMAL STEM CELLS ~71:GLOBAL STEM CELL TECHNOLOGY, Noorwegenstraat 4, Belgium ~72: BROECKX, Sarah;SPAAS, Jan~ 33:EP ~31:19162270.3 ~32:12/03/2019

2021/06637 ~ Provisional ~54:MINE SUPPORT BAG CONSTRUCTION METHOD ~71:Frans Roelof Petrus Pienaar / Mark Howell, 10 Vegkop Street, Noordheuwel, South Africa ~72: Frans Roelof Petrus Pienaar / Mark Howell~

2021/06671 ~ Complete ~54:AEROSOL PROVISION SYSTEM ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: MOLONEY, Patrick~ 33:GB ~31:1904847.9 ~32:05/04/2019 2021/06663 ~ Complete ~54:GAS-SOLID CONTACTING DEVICE ~71:YILKINS B.V, 7b, Ter Borchlaan, XA GRONINGEN, Netherlands ~72: BERGMAN, Peter, Christiaan, Albert;BOERS, Robert, Johan;OLTVOORT, Evert-Jan~ 33:NL ~31:2022774 ~32:20/03/2019

2021/06646 ~ Complete ~54:SPECIAL SOIL SOLUTION EXTRACTION DEVICE FOR LYSIMETER ~71:Ping Li, 380 Hongli East Road, Xinxiang City, Henan Province, People's Republic of China ~72: Du Zhenjie;Guo Wei;Li Ping;Liang Zhijie;Liu Duo;Qi Xuebin;Zhang Yan;Zhang Zulin~

2021/06685 ~ Complete ~54:FLUIDIZED BED COLLISION TYPE AIRFLOW MECHANICAL SUPERFINE PULVERIZATION EQUIPMENT AND METHOD ~71:HENAN UNIVERSITY OF SCIENCE AND TECHNOLOGY, No. 263, Kaiyuan Avenue Luoyang, People's Republic of China;QINGDAO UNIVERSITY OF TECHNOLOGY, No. 777, Jialingjiang Road, Economic and Technological Development Zone, Qingdao, People's Republic of China;RESEARCH INSTITUTE OF AGRICULTURAL MECHANIZATION, XINJIANG ACADEMY OF AGRICULTURAL SCIENCES, No. 403, Nanchang Road Urumqi, People's Republic of China ~72: HOU, Yali;LI, Changhe;LI, Xinping;LIU, Mingzheng;LIU, Xiangdong;WANG, Xiaoming;YANG, Huimin;ZHANG, Yanbin~ 33:CN ~31:202010286281.7 ~32:13/04/2020

- APPLIED ON 2021/09/10 -

2021/06690 ~ Complete ~54:PACKAGING ARRANGEMENT ~71:Vortex Innovation Worx (Pty) Ltd, 4 Paddy Close, South Africa ~72: Chris SHAW~ 33:ZA ~31:2020/05761 ~32:17/09/2020

2021/06696 ~ Complete ~54:HYDRAULIC SUPPORT STRAIGHTNESS DETECTION DEVICE AND WORKING METHOD THEREOF ~71:Shandong University of Science and Technology, No. 579, Qianwangang Road, Huangdao District, Qingdao, Shandong, 266000, People's Republic of China ~72: CHEN, Sheng;GAO, Kuidong;JIANG, Kao;LIU, Hong;LIU, Jihai;LIU, Zhihai;SUN, Liqing;WAN, Lirong;WANG, Chenglong;WANG, Liang;XU, Wenqian;ZENG, Qingliang;ZHANG, Xiaodi;ZHANG, Xin~ 33:CN ~31:202011070660.9 ~32:09/10/2020

2021/06703 ~ Complete ~54:PREPARATION METHOD OF NEMATODE SLIDES FOR MORPHOLOGIC OBSERVATION ~71:QINGDAO AGRICULTURAL UNIVERSITY, No. 700 Changcheng Road, Chengyang District, Qingdao, People's Republic of China;QINGDAO LIBANG GAODE PEST CONTROL CO., LTD., No. 287 Mingyang Road, Chengyang District, Qingdao, People's Republic of China ~72: MA, Ruyu;RONG, Shuli;WANG, Junping;WANG, Zihao;ZHANG, Yan~

2021/06713 ~ Complete ~54:NOVEL PATHOLOGICAL MARKER AND USES THEREOF ~71:METADEQ LIMITED, 57a Epirus Road, London, SW6 7UR, United Kingdom ~72: GERTRUDE MINGRONE;LIDIA CASTAGNETO GISSEY~ 33:IT ~31:102019000005700 ~32:12/04/2019

2021/06721 ~ Complete ~54:PHARMACEUTICAL COMPOSITION CONTAINING ANTIBODY AGAINST IL-5 AND USE THEREOF ~71:JIANGSU HENGRUI MEDICINE CO., LTD., No. 7 Kunlunshan Road, Economic and Technological Development Zone,, People's Republic of China;SHANGHAI HENGRUI PHARMACEUTICAL CO., LTD., No. 279 Wenjing Road, Minhang District, People's Republic of China ~72: LI, Hao;LIU, Xun;TAO, Weikang;WU, Tingting~ 33:CN ~31:201910249953.4 ~32:29/03/2019

2021/06722 ~ Complete ~54:SYSTEM AND METHOD FOR COLLECTING AND PRE-TREATING PROCESS GASES GENERATED BY AN ELECTROLYSIS CELL ~71:ELYSIS LIMITED PARTNERSHIP, 1 Place Ville Marie Suite 2323, Canada ~72: GLISAN, Roy A.;MEYER, Michel~ 33:US ~31:62/820,917 ~32:20/03/2019

2021/06727 ~ Complete ~54:COMBINATION THERAPIES FOR USE IN TREATING CANCER ~71:Les Laboratoires Servier SAS, 50 rue Carnot, SURESNES CEDEX 92284, FRANCE, France ~72: HYER, Marc Lee;KALEV, Petar;MARJON, Katya;MARKS, Kevin~ 33:US ~31:62/805,179 ~32:13/02/2019

2021/06740 ~ Complete ~54:PARTICLES WITH BIOCIDAL COATING ~71:INSTRACTION GMBH, Carl-Friedrich-Gauß-Ring 5, Germany ~72: LUNGFIEL, Kristian;MEYER, Christian;WELTER, Martin~ 33:DE ~31:10 2019 106 646.8 ~32:15/03/2019

2021/06741 ~ Complete ~54:COMBINATIONS OF RAD51 AND PARP INHIBITORS ~71:CYTEIR THERAPEUTICS, INC., 128 Spring Street, Building A, Suite 510, Lexington, United States of America ~72: CASTRO, Alfredo C.;DAY, Melinda;MACLAY, Tyler;MCCOMAS, Casey Cameron;MILLS, Kevin;VACCA, Joseph~ 33:US ~31:62/823,556 ~32:25/03/2019

2021/06693 ~ Complete ~54:SOYBEAN SAUCE BASED ON BACILLUS SUBTILIS NATTO MUTANT AS DOMINANT STRAIN AND PREPARATION METHOD ~71:JILIN AGRICULTURAL UNIVERSITY, NO. 2888 XINCHENG AVENUE, People's Republic of China;JILIN PROVINCE TIANYEQUAN BREWING CO.,LTD., JIUTAI KALUN ECONOMIC DEVELOPMENT ZONE, People's Republic of China ~72: CHEN, DANDAN;DAI, WEICHANG;DENG, WEI;GUAN, HUI;LI, XUE;LI, ZHUOWEI;LIU, GUOYAN;LIU, JUNMEI;SHEN, HONGYANG;SHENG, ZHILI;WANG, HUAN;WANG, MENGZHU;WANG, MINGHUI;YUAN, YANNI;ZHAO, YANG;ZHAO, YUQIAN~

2021/06704 ~ Complete ~54:METHOD FOR PREPARING FOOD-DERIVED ACE INHIBITORY PEPTIDES FROM ZEIN BY SWEEP FREQUENCY ULTRASOUND COUPLING ENZYMOLYSIS ~71:QINGDAO AGRICULTURAL UNIVERSITY, No. 700 Changcheng Road, Chengyang District, Qingdao, People's Republic of China ~72: XU, Zhiqiang;YANG, Qingli;ZHAO, Shang;ZHENG, Wenbin;ZHU, Yinglian~

2021/06719 ~ Complete ~54:AIR ENERGY THROUGH-FLOW BOX DRYER FOR WALNUT SHELLS AND WORKING METHOD THEREOF ~71:QINGDAO UNIVERSITY OF TECHNOLOGY, No. 777, Jialingjiang Road, Economic and Technological Development Zone, Qingdao, People's Republic of China;RESEARCH INSTITUTE OF AGRICULTURAL MECHANIZATION, XINJIANG ACADEMY OF AGRICULTURAL SCIENCES, No. 403, Nanchang Road Urumqi, People's Republic of China;XINJIANG JIANG NING LIGHT INDUSTRIAL MACHINERY ENGINEERING TECHNOLOGY CO., LTD., Room 301, 3rd Floor, No.303, Yinxing Street Urumqi, People's Republic of China ~72: CHE, Ji;GAO, Lianxing;HOU, Yali;LI, Changhe;LI, Xinping;LIU, Mingzheng;LIU, Xiangdong;SHI, Mingcun;WANG, Xiaoming;YANG, Huimin;ZHANG, Yanbin;ZHAO, Huayang~ 33:CN ~31:202010302670.4 ~32:13/04/2020

2021/06725 ~ Complete ~54:MAGNETIC RESONANCE RADIO FREQUENCY POWER AMPLIFIER APPARATUS AND MAGNETIC RESONANCE SYSTEM ~71:SHANDONG FIRST MEDICAL UNIVERSITY & amp; SHANDONG ACADEMY OF MEDICAL SCIENCES, No. 619, Changcheng Road Tai'an, People's Republic of China ~72: HOU, Kun;LU, Weizhao;QIU, Jianfeng;SHI, Liting;ZHAO, Huihui~ 33:CN ~31:201910111648.9 ~32:12/02/2019

2021/06708 ~ Complete ~54:FUEL NOZZLE HAVING EXPANSION SLITS FOR A PULVERIZED-COAL BURNER ~71:MITSUBISHI POWER EUROPE GMBH, SCHIFFERSTRASSE 80, 47059 DUISBURG, GERMANY, Germany ~72: GERNAND, Stefan;HENDRICKS, Reiner;HOFFMEISTER, Falk;MERTIN, Sven~ 33:DE ~31:10 2019 103 640.2 ~32:13/02/2019

2021/06717 ~ Complete ~54:METHOD AND REACTOR FOR THE ADVANCED THERMAL CHEMICAL CONVERSION PROCESSING OF MUNICIPAL SOLID WASTE ~71:DECKER, Earl, 2072 Iroquois St., Windsor, Ontario, Canada ~72: DECKER, Earl~ 33:US ~31:62/807,798 ~32:20/02/2019 2021/06733 ~ Complete ~54:THE ATR KINASE INHIBITOR BAY1895344 FOR USE IN THE TREATMENT OF A HYPER-PROLIFERATIVE DISEASE ~71:Bayer Aktiengesellschaft, Kaiser-Wilhelm-Allee 1, LEVERKUSEN 51373, GERMANY, Germany ~72: ASSI, Pardis;BAIRLEIN, Michaela;KRAUSE, Michael;KRICKAU, Dennis;LAGKADINOU, Eleni;SERNO, Peter;WATTERS, Siobhan;WENGNER, Antje Margret;WILKINSON, Gary~ 33:EP ~31:19156399.8 ~32:11/02/2019

2021/06689 ~ Complete ~54:COMPETITION GRAPH–BASED DEMAND RESPONSE METHOD FOR ELECTRIC VEHICLE CHARGING STATION ~71:AOSTAR INFORMATION TECHNOLOGIES CO.,LTD., No. 2688 Xiyuan Avenue, Modern Industrial Port (South Area), Pidu District, Chengdu, Sichuan, 611730, People's Republic of China ~72: HU, Zhouming;HUANG, Pu;NI, Pingbo;SHANG, Zhongyu;TANG, Donglai;ZHANG, Jie;ZHAO, Zixin~ 33:CN ~31:202110586800.6 ~32:27/05/2021

2021/06736 ~ Complete ~54:CAPSID ASSEMBLY MODULATOR SOLID FORMULATION ~71:Janssen Sciences Ireland Unlimited Company, Barnahely, Ringaskiddy, CO CORK, IRELAND, Ireland ~72: ANNÉ, MichaëI Bertil S.;BALMAIN, Claire Elisabeth;JANSENS, Maria;LENZ, Oliver;SINGH, Abhishek;SNOEYS, Jan;VAN DYCKE, Frederic Anne R.;VANDENBOSSCHE, Joris Jozef;VERSTRAETE, Dominique Josiane W.~ 33:IB ~31:2019/000231 ~32:13/03/2019;33:IB ~31:2019/056348 ~32:13/03/2019;33:US ~31:16/352,754 ~32:13/03/2019;33:EP ~31:19197566.3 ~32:16/09/2019

2021/06688 ~ Provisional ~54:DIY EMERGENCY DENTURES ~71:Jacobus Henry le Grange, 16 Rupert Avenue, Helderberg Estate, Somerset West, 1730, South Africa ~72: Jacobus Henry le Grange~

2021/06714 ~ Complete ~54:HETEROCYCLIC COMPOUND AND HARMFUL ARTHROPOD PEST CONTROL COMPOSITION CONTAINING SAME ~71:SUMITOMO CHEMICAL COMPANY, LIMITED, 27-1, Shinkawa 2chome, Chuo-ku, Tokyo, 1048260, Japan ~72: TAKESHI TSURUDA;YASUMASA SAITO;YOSHIHIKO NOKURA~ 33:JP ~31:2019-066002 ~32:29/03/2019;33:JP ~31:2019-235932 ~32:26/12/2019

2021/06737 ~ Complete ~54:COEFFICIENT CODING FOR TRANSFORM SKIP MODE ~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;WANG, Hongtao~ 33:US ~31:62/816,745 ~32:11/03/2019;33:US ~31:62/850,453 ~32:20/05/2019;33:US ~31:16/814,654 ~32:10/03/2020

2021/06699 ~ Complete ~54:LOW-TEMPERATURE AIR SUSPENSION KOREAN PINE SEED OIL PINOLENIC ACID NANOEMULSION COMPOSITION MICROCAPSULE ~71:Jilin Agricultural University, . No. 2888 Xincheng Avenue, Jingyue District, Changchun City, People's Republic of China;Jilin Provincial Academy of Forestry Sciences, No. 3528, Linhe Street, Economic Development Zone, Changchun City, People's Republic of China ~72: CHANG, Ya'nan;LI, Xiaoyu;LI, Zhuowei;LIU, Junmei;LIU, Sainan;SHENG, Zhili;WANG, Jun;YANG, Yuchun~

2021/06716 ~ Complete ~54:METHOD AND MEANS FOR PROCESSING BEVERAGES ~71:STONE TREE INTERNATIONAL LIMITED, 71-75 Shelton Street, Convent Garden, United Kingdom ~72: Paul Bertus HAYES;Timothy John BOND~ 33:ZA ~31:2019/01552 ~32:13/03/2019

2021/06707 ~ Complete ~54:USER EQUIPMENT, RADIO NETWORK NODE AND METHODS FOR MANAGING RECOVERY PROCEDURES THEREIN ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83 STOCKHOLM, SWEDEN, Sweden ~72: BELLESCHI, Marco;CHRISTOFFERSSON, Jan;KARLSSON, Robert;RUNE, Johan;WANG, Min~ 33:US ~31:62/804,791 ~32:13/02/2019

2021/06710 ~ Complete ~54:WIRELESS TIME-SENSITIVE NETWORKING ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83 STOCKHOLM, SWEDEN, Sweden ~72: ALABBASI, Abdulrahman;ANDERSSON, Mattias;ANDGART, Niklas;ANGELSMARK, Ola;ARAÚJO,

José;ASHRAF, Muhammad, Ikram;BALACHANDRAN, Kumar;BALDEMAIR, Robert;BERG, Rodrigo;BLANKENSHIP, Yufei;CHERNOGOROV, Fedor;DIACHINA, John Walter;DUDDA, Torsten;ENBUSKE, Henrik;FALAHATI, Sorour;FARKAS, Janos;FRÖBERG OLSSON, Jonas;GERAMI, Majid;GUSTAFSSON, Harald;HÖGLUND, Anders;HILTUNEN, Kimmo;HOLMBERG, Torgny;KENESI, Zsolt;KERN, Andras;KITTICHOKECHAI, Kittipong;LARMO, Anna;LOPEZ, Miguel;LUNDSJÖ, Johan;MIKLÓS, György;MUNZ, Hubertus Andreas;NEMETH, Gabor;NYGREN, Johannes;OLSSON, Johan;PALAIOS, Alexandros;PATEL, Dhruvin;PERSSON, Joakim;PERSSON, Per;PRADAS, Jose Luis;RACZ, Sandor;RAMACHANDRA, Pradeepa;REIDER, Norbert;ROELAND, Dinand;RUFFINI, Stefano;SACHS, Joachim;SALMELA, Patrik;SANDBERG, Sara;SANDGREN, Magnus;SCHLIWA-BERTLING, Paul;SHAPIN, Alexey;SHI, Nianshan;SINGH, Bikramjit;SKARIN, Per;SMEETS, Bernard;SUN, Ying;SUNDMAN, Dennis;SVENSSON, Fredrik;SVENSSON, Malgorzata;SZABO, Geza;TONUTTI, Wolfgang;VARGA, Balazs;WAHLSTRÖM, Mårten;WANG, Kun;WANG, Yi-Pin Eric;YILMAZ, Osman Nuri Can;ZOU, Zhenhua~ 33:US ~31:16/274,800 ~32:13/02/2019

2021/06728 ~ Complete ~54:HEATING ASSEMBLY AND APPARATUS ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, GREATER LONDON, UNITED KINGDOM, United Kingdom ~72: KORUS, Anton;MOLONEY, Patrick~ 33:GB ~31:1903278.8 ~32:11/03/2019

2021/06732 ~ Complete ~54:INDAZOLYL-ISOXAZOLE DERIVATIVES FOR THE TREATMENT OF DISEASES SUCH AS CANCER ~71:Merck Patent GmbH, Frankfurter Strasse 250, DARMSTADT 64293, GERMANY, Germany ~72: BLUM, Andreas;DORSCH, Dieter~ 33:EP ~31:19156318.8 ~32:11/02/2019

2021/06692 ~ Complete ~54:DEVICE FOR TESTING PERFORMANCE OF AUTOMOBILE SNOW CHAINS ~71:SHANDONG JIAOTONG UNIVERSITY, NO. 5001, HAITANG ROAD, CHANGQING UNIVERSITY SCIENCE PARK, CHANGQING DISTRICT, People's Republic of China ~72: FANGYUAN LI;KUN JIANG;XIA WANG;ZENGLEI FENG~

2021/06697 ~ Complete ~54:PUMPING WELL FOR PUMPING AND DISCHARGING LEACHATE IN LANDFILLS ~71:Nanchang Hangkong University, No. 696 Fenghe South Road, Honggutai District, Nanchang City, Jiangxi Province, People's Republic of China ~72: Han Shangyu;Ji Xiaolei;Shi Jianyong;Wu Xun;Zhang Huihua;Zhang Tao~

2021/06701 ~ Complete ~54:APPLICATION OF KEY ENZYME GENE IN BRASSINOSTEROIDS BIOSYNTHESIS FROM ZEA MAYS TO IMPROVING PLANT STRESS RESISTANCE ~71:QINGDAO AGRICULTURAL UNIVERSITY, No. 700 Changcheng Road, Chengyang District, Qingdao, People's Republic of China;SHANDONG LYUHE AGRICULTURAL COMPREHENSIVE DEVELOPING CO., LTD., Zhenzhuang Village, Nanzhaolou Town, Yuncheng County Heze, People's Republic of China ~72: DUAN, Fangmeng;SONG, Wenwen;ZHANG, Qingtao~

2021/06712 ~ Complete ~54:GYRATORY CRUSHER, AND OVERLOAD DETECTION DEVICE AND METHOD THEREFOR ~71:KABUSHIKI KAISHA EARTHTECHNICA, 2-4, Kandajinbo-cho, Chiyoda-ku, Tokyo, 1010051, Japan ~72: ATSUSHI OYAMA;JUN KOBAYASHI;NOBUYUKI KAJITA;TAKASHI KIJIMA~

2021/06730 ~ Complete ~54:AEROSOL PROVISION DEVICE ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, GREATER LONDON, UNITED KINGDOM, United Kingdom ~72: SAYED, Ashley John;WARREN, Luke James;WOODMAN, Thomas Alexander John~ 33:GB ~31:1903243.2 ~32:11/03/2019

2021/06734 ~ Complete ~54:AEROSOL PROVISION DEVICE ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, GREATER LONDON, UNITED KINGDOM, United Kingdom ~72: BLANDINO, Thomas Paul;THORSEN, Mitchel~ 33:US ~31:62/816,251 ~32:11/03/2019;33:US ~31:62/816,306 ~32:11/03/2019

2021/06723 ~ Complete ~54:METHODS OF IDENTIFYING VAE SERVERS AND RELATED V2X WIRELESS DEVICES AND SERVERS ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), S-164 83, Sweden ~72: EL ESSAILI, Ali;LOHMAR, Thorsten;MUEHLEISEN, Maciej;ZANG, Yunpeng~ 33:US ~31:62/826,210 ~32:29/03/2019

2021/06735 ~ Complete ~54:PREVIOUS CONNECTION STATUS REPORT ~71:Koninklijke Philips N.V., High Tech Campus 52, EINDHOVEN 5656 AG, THE NETHERLANDS, Netherlands ~72: BERNSEN, Johannes Arnoldus Cornelis~ 33:EP ~31:19156539.9 ~32:11/02/2019

2021/06695 ~ Complete ~54:PREPARATION METHOD, PRODUCTS AND APPLICATIONS OF LIGNIN NANOPARTICLES ~71:Qilu University of Technology, No.3501 Daxue Road, Changqing District, Jinan, Shandong Province, People's Republic of China ~72: Cui Han;Ji Xingxiang;Luo Tong;Lyu Gaojin;Wang Chao;Yang Guihua~

2021/06698 ~ Complete ~54:POD ASSEMBLY, DISPENSING BODY, AND E-VAPOR APPARATUS INCLUDING THE SAME ~71:ALTRIA CLIENT SERVICES LLC, 6601 West Broad Street, Richmond, Virginia, 23230, United States of America ~72: CRISTIAN POPA;ERIC HAWES;JAMES YORKSHADES;RAYMOND LAU;RYAN NEWCOMB;TERRY BACHE~ 33:US ~31:15/601,365 ~32:22/05/2017

2021/06739 ~ Complete ~54:AEROSOL PROVISION DEVICE ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, GREATER LONDON, UNITED KINGDOM, United Kingdom ~72: SAYED, Ashley John;THORSEN, Mitchel;WARREN, Luke James~ 33:US ~31:62/816,331 ~32:11/03/2019;33:US ~31:62/816,332 ~32:11/03/2019

2021/06691 ~ Complete ~54:METHOD FOR ANALYZING DYNAMIC MESHING AND TRANSMISSION PROCESS OF GEAR AND RACK BASED ON SPH ~71:Sichuan University of Science and Engineering, No. 180 Huidong Xueyuan Street, Zigong, Sichuan, 643000, People's Republic of China ~72: TANG, Yufeng~ 33:CN ~31:202010957919.5 ~32:14/09/2020

2021/06700 ~ Complete ~54:METHOD AND APPARATUS FOR FORECASTING PARKING DEMAND, READABLE STORAGE MEDIUM AND ELECTRONIC DEVICE ~71:NEUSOFT CORPORATION, No. 2, Xinxiu Street, Hunnan New District, Shenyang, People's Republic of China ~72: WANG, Qi;YANG, Ming;ZHANG, Qian~ 33:CN ~31:202110998241.X ~32:27/08/2021

2021/06702 ~ Complete ~54:APPLICATION OF SPINACH SOCYP92A1 GENE TO ENHANCING PLANT STRESS RESISTANCE ~71:QINGDAO AGRICULTURAL UNIVERSITY, No. 700 Changcheng Road, Chengyang District, Qingdao, People's Republic of China ~72: SONG, Wenwen;ZHANG, Yu;Zhang, Jie~

2021/06711 ~ Complete ~54:6-OXO-1,6-DIHYDROPYRIDAZINE PRODRUG DERIVATIVE, PREPARATION METHOD THEREFOR, AND APPLICATION THEREOF IN MEDICINE ~71:JIANGSU HENGRUI MEDICINE CO., LTD., No. 7 Kunlunshan Road, Economic and Technological Development Zone,, People's Republic of China;SHANGHAI HENGRUI PHARMACEUTICAL CO., LTD., No. 279 Wenjing Road, Minhang District, People's Republic of China ~72: CHI, Jiangtao;HE, Feng;LIU, Zhiwei;TAO, Weikang;YANG, Fanglong;YU, Nan~ 33:CN ~31:201910125750.4 ~32:20/02/2019;33:CN ~31:201910384992.5 ~32:09/05/2019;33:CN ~31:201910567035.6 ~32:27/06/2019;33:CN

2021/06724 ~ Complete ~54:QUALITY CONTROL PHANTOM AND EVALUATION METHOD FOR MAGNETIC RESONANCE ARTERIAL SPIN LABELING PERFUSION IMAGING ~71:SHANDONG FIRST MEDICAL
UNIVERSITY & Comparison of China ACADEMY OF MEDICAL SCIENCES, No. 619, Changcheng Road Tai'an, People's Republic of China A72: HOU, Kun;LU, Weizhao;QIU, Jianfeng;SHI, Liting;ZHAO, Huihui 33:CN A31:201910111798.X A32:12/02/2019

2021/06706 ~ Complete ~54:METHOD FOR IMPROVING UTILIZATION EFFICIENCY OF WATER AND FERTILIZERS OF CROPS ~71:INSTITUTE OF WATER RESOURCES OF PASTORAL AREA, MWR, NO. 128, UNIVERSITY EAST STREET, People's Republic of China ~72: CAO, XUESONG;LI, ZEKUN;LU, HAIYUAN;REN, JIE;TANG, PENGCHENG;TIAN, DELONG;TONG, CHANGFU;WANG, GUOSHUAI;WANG, JUN;WU, JIABIN;XU, BING;ZHANG, CHEN;ZHENG, HEXIANG~

2021/06718 ~ Complete ~54:NOVEL SELECTION MARKER-COMPRISING CELL LINE AND USES THEREOF FOR PROTEIN PRODUCTION ~71:SANOFI, 54 rue La Boétie, France ~72: DUMAS, Bruno Louis;LOUNIS Mohammed Nabil~ 33:EP ~31:19305331.1 ~32:19/03/2019

2021/06729 ~ Complete ~54:AEROSOL PROVISION DEVICE ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, GREATER LONDON, UNITED KINGDOM, United Kingdom ~72: BLANDINO, Thomas Paul;HALLIDAY, Edward Joseph;HART, William Stephen;ROACH, Adam;THORSEN, Mitchel;WOODMAN, Thomas Alexander John~ 33:US ~31:62/816,318 ~32:11/03/2019

2021/06731 ~ Complete ~54:AEROSOL PROVISION DEVICE ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, GREATER LONDON, UNITED KINGDOM, United Kingdom ~72: SAYED, Ashley John;WARREN, Luke James;WOODMAN, Thomas Alexander John~ 33:GB ~31:1903249.9 ~32:11/03/2019

2021/06694 ~ Complete ~54:A SOIL CONDITIONER FOR TREATING SALINE-ALKALI LAND AND ITS PREPARATION METHOD AND APPLICATION ~71:Ludong University Dongying Base of Integration Between Industry and Education for High-quality Development of Modern Agriculture, No.50 Lvzhouer Road, Management Center, Modern Agriculture Demonstration Zone, Dongying, Shandong, People's Republic of China ~72: Guo Xiaohong;Wang Li;Wu Nan;Zhao Huili;Zhao Ying~

2021/06705 ~ Complete ~54:METHOD AND APPARATUS FOR EFFICIENT DELIVERY AND USAGE OF AUDIO MESSAGES FOR HIGH QUALITY OF EXPERIENCE ~71:FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V., Hansastrasse 27c, Germany ~72: CZELHAN, Bernd;FUCHS, Harald;MURTAZA, Adrian;PLOGSTIES, Jan~ 33:EP ~31:17196255.8 ~32:12/10/2017

2021/06715 ~ Complete ~54:MODULE FOR COLLECTING DATA RELATING TO A DEVICE OF A PASSENGER TRANSPORT VEHICLE ~71:FAIVELEY TRANSPORT TOURS, 75 avenue Yves Farge, ZI Les Yvaudières, 37700 Saint-Pierre-Des-Corps, France ~72: FABRICE LAMIDE;SABER BAYOUDH~ 33:FR ~31:1902194 ~32:04/03/2019

2021/06720 ~ Complete ~54:AUTOMATED BIOMANUFACTURING SYSTEMS, FACILITIES, AND PROCESSES ~71:JUST-EVOTEC BIOLOGICS, INC., 401 Terry Avenue, United States of America; MERCK SHARP & amp; DOHME CORP., 126 East Lincoln Avenue, United States of America ~72: BROWER, Mark A.; CONNELL-CROWLEY, Lisa, A.; GEFROH, Eva Fan; MCCLURE, Megan, J.; MCCOY, Rebecca Eileen; NAPOLI, William, N.; PINTO, Nuno, J. Dos Santos; PIPER, Robert James; STRAUGHN, Rachel, Y.; VANDIVER, Michael Wayne~33:US ~31:62/806,448 ~32:15/02/2019

2021/06726 ~ Complete ~54:INFLUENCING A SEQUENTIAL CHROMATOGRAPHY IN REAL-TIME ~71:Bayer Aktiengesellschaft, Kaiser-Wilhelm-Allee 1, LEVERKUSEN 51373, GERMANY, Germany ~72: BORCHERT, Sven-Oliver;BRANDT, Heiko;HILLE, Rubin;LOBEDANN, Martin;MRZIGLOD, Thomas;PAPADOPOULOS,

Alexandros; POGGEL, Martin; SCHWAN, Peter~ 33:EP ~31:19156367.5 ~32:11/02/2019; 33:EP ~31:19184911.6 ~32:08/07/2019

2021/06738 ~ Complete ~54:BOUNDARY HANDLING FOR ADAPTIVE LOOP FILTERING ~71:QUALCOMM Incorporated, ATTN: International IP Administration, 5775 Morehouse Drive, SAN DIEGO 92121-1714, CA, USA, United States of America ~72: HU, Nan;KARCZEWICZ, Marta;SEREGIN, Vadim~ 33:US ~31:62/816,728 ~32:11/03/2019;33:US ~31:16/814,597 ~32:10/03/2020

2021/06709 ~ Complete ~54:SECONDARY AUTHORIZATION AT PDU SESSION ESTABLISHMENT FOR HOME ROUTED ROAMING ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83 STOCKHOLM, SWEDEN, Sweden ~72: GAN, Juying;LU, Yunjie;YANG, Yong~ 33:US ~31:62/805,128 ~32:13/02/2019

- APPLIED ON 2021/09/13 -

2021/06742 ~ Provisional ~54:LANDLORD LISTING SOUTH AFRICA (PTY) LTD ~71:LANDLORD LISTING SOUTH AFRICA, 677 Eland Street, South Africa ~72: Anna Louisa Wilhelmina Viljoen~ 33:ZA ~31:1 ~32:11/09/2021

2021/06746 ~ Complete ~54:HINGE MODULE INCLUDING DETENT STRUCTURE AND FOLDABLE ELECTRONIC DEVICE INCLUDING THE HINGE MODULE ~71:SAMSUNG ELECTRONICS CO., LTD., 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea ~72: CHUNGKEUN YOO;HYUNGGEUN LEE;JONGMIN KANG;JONGYOON KIM;JUNGJIN KIM;SUMAN LEE~ 33:KR ~31:10-2019-0019560 ~32:19/02/2019;33:KR ~31:10-2019-0062226 ~32:28/05/2019

2021/06752 ~ Complete ~54:AIR-PERMEABLE POLYVINYL ALCOHOL FILM AND PREPARATION METHOD THEREOF ~71:Qingdao University of Science and Technology, No. 53 Zhengzhou Road, Shibei District, Qingdao City, Shandong Province, People's Republic of China ~72: Cheng Jiaji;Guan Yu;Li Shaoxiang;Qu Wenjuan;Wang Dong~

2021/06771 ~ Complete ~54:TAILINGS DEPOSITION ~71:ANGLO AMERICAN TECHNICAL & amp; SUSTAINABILITY SERVICES LTD, 17 Charterhouse Street, London, EC1N 6RA, United Kingdom ~72: ANTHONY OWEN FILMER;DANIEL JOHN ALEXANDER;JULIAN JEREMY SOLES;PHILIP DUNCAN NEWMAN~

2021/06777 ~ Complete ~54:FUSED RING PYRIMIDONE DERIVATIVES FOR USE IN THE TREATMENT OF HBV INFECTION OR OF HBV-INDUCED DISEASES ~71:Janssen Sciences Ireland Unlimited Company, Barnahely, Ringaskiddy, CO CORK, IRELAND, Ireland ~72: BERKE, Jan Martin;GROSSE, Sandrine Céline;HSIAO, Meng-Yang;HU, Lili;JACOBY, Edgar;JONCKERS, Tim Hugo Maria;KESTELEYN, Bart Rudolf Romanie;LAST, Stefaan Julien;MARTINEZ LAMENCA, Carolina;PERRIER, Mathieu;PIETERS, Serge Maria Aloysius;RABOISSON, Pierre Jean-Marie Bernard;TAHRI, Abdellah;VANDYCK, Koen;VERSCHUEREN, Wim Gaston~ 33:EP ~31:19162954.2 ~32:14/03/2019

2021/06743 ~ Provisional ~54:ENERGY GENERATING SYSTEM ~71:Green Current (Pty) Ltd, Unit 2 Leogem Commercial Park, 90 Richards Drive, Midrand, Gauteng, 1685, South Africa ~72: Christe SJ Christos;Lyle Lawrence Ireland~

2021/06747 ~ Complete ~54:SOIL CONDITIONER FOR TREATING HEAVY METAL POLLUTIONS IN FARMLANDS AND PREPARATION METHOD THEREOF ~71:Jiangxi Puruifeng Ecological Technology Co., Ltd., Room 425, 1st Floor, No. 5 Changnan Park 5th Road, Changnan Industrial Park, Qingyunpu District, Nanchang, Jiangxi, 330001, People's Republic of China ~72: HUANG, Chunlun;LIU, Yun;WEN, Yangping~ 2021/06748 ~ Complete ~54:MEDICINAL POWDER FOR TREATING BURNS AND SCALDS AND PREPARATION METHOD THEREOF ~71:Li Xiaomei, B06, 4th Floor, Building A, Changfuyuan, Yuanmen Street, Huifeng Avenue, Bazhou District, Bazhong, Sichuan, People's Republic of China ~72: Li Benfang;Li Xiaomei~ 33:CN ~31:202110980358. 5 ~32:25/08/2021

2021/06769 ~ Complete ~54:TREATMENT OF CILIOPATHIES ~71:ETHRIS GMBH, Semmelweisstrasse 3 , 82152, Planegg, Germany ~72: ADRIAN TER STEEGE;CARSTEN RUDOLPH;CHRISTIAN DOHMEN;HEYMUT OMRAN;JOHANNA RAIDT;JOHANNES GEIGER;KAI WOHLGEMUTH;LUDWIG WEISS;MANISH ANEJA;NIKI TOMAS LOGES;PETRA PENNEKAMP;REBEKKA KUBISCH-DOHMEN;SANDRA CINDRIC;VERENA KRETZSCHMANN~ 33:EP ~31:19 15 7210.6 ~32:14/02/2019

2021/06751 ~ Complete ~54:A SIGNIFICANCE DETECTION METHOD BASED ON CNN AND BACKGROUND PRIOR ~71:Xidian University, 266 Xinglong Section of Xifeng Road, Xi'an, Shaanxi, People's Republic of China ~72: Feng Haonan;Li Runxin;Ma Qing;Meng Fanjie;Zeng Pingping~

2021/06764 ~ Complete ~54:CONGESTION CONTROL IN AMF AND SMF ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83 STOCKHOLM, SWEDEN, Sweden ~72: FOTI, George;GAN, Juying;HEDMAN, Peter;SEDLACEK, Ivo~ 33:CN ~31:PCT/CN2019/075020 ~32:14/02/2019

2021/06765 ~ Complete ~54:CLUBROOT RESISTANT BRASSICA PLANTS ~71:BASF AGRICULTURAL SOLUTIONS SEED US LLC, 100 PARK AVENUE, FLORHAM PARK, NEW JERSEY 07932, USA, United States of America ~72: CHONGO, Godfrey;DEVLAMYNCK, Jasper;NGUYEN, Thi, Ninh, Thuan;WAGNER, Geoffrey~ 33:EP ~31:19157382.3 ~32:15/02/2019

2021/06772 ~ Complete ~54:FLOW SYNTHESIS PROCESS FOR THE PRODUCTION OF OSELTAMIVIR ~71:NELSON MANDELA UNIVERSITY, University Way, Summerstrand, 6001 Port Elizabeth, South Africa ~72: CLOUDIUS RAY SAGANDIRA;PAUL WATTS~

2021/06779 ~ Complete ~54:PROCESS FOR PRODUCING AGGLOMERATED LIGNIN AND USE THEREOF ~71:Stora Enso OYJ, P.O. Box 309, HELSINKI 00101, FINLAND, Finland ~72: ARESKOGH, Dimitri~ 33:SE ~31:1950320-0 ~32:14/03/2019

2021/06780 ~ Complete ~54:THREADED TARGETING INSTRUMENTS, SYSTEMS AND METHODS OF USE ~71:Paragon 28, Inc., 14445 Grasslands Drive, ENGLEWOOD 80112, CO, USA, United States of America ~72: BARMES, Francis D.;BRINKER, Laura Zagrocki;DACOSTA, Albert;DOGUÉ, Joseph;RAYMOND, Spanky~ 33:US ~31:62/805,777 ~32:14/02/2019

2021/06749 ~ Complete ~54:METHOD FOR PREPARING BLACK HIGHLAND BARLEY NATTO PRESSED CANDY FOR REGULATING GLUCOSE AND LIPID METABOLISM ~71:Qinghai Academy of Agriculture and Forestry Sciences, No. 253 Ningda Road, Chengbei District, Xining, Qinghai, 810016, People's Republic of China;Qinghai Huashi Highland Barley Biological Technology Development Co., Ltd., No. 14, North Section of Jing'er Road, Biotechnology Industrial Park, Chengbei District, Xining, Qinghai 810016, People's Republic of China ~72: DANG, Bin;DU, Yan;HAO, Jing;YANG, Xijuan;ZHANG, Jie;ZHANG, Wengang~

2021/06755 ~ Complete ~54:BENEFICIATION OF CR-BEARING ORE ~71:BETACHEM (PROPRIETARY) LIMITED, 31 Pafuri Road, EMMARENTIA, Johannesburg 2195, Gauteng, SOUTH AFRICA, South Africa ~72: Grobler, Willem Adriaan;Mokadze, Abel Monele~ 33:ZA ~31:2020/06196 ~32:07/10/2020

2021/06753 ~ Complete ~54:FLOOD CONTROL RISK IDENTIFICATION AND ASSESSMENT METHOD OF WATER TRANSFER PROJECTS ~71:China Institute of Water Resources and Hydropower Research, No.20

Chegongzhuang West Road, Haidian District, Beijing, People's Republic of China ~72: Ding Liuqian;Du Xiaohe;Fu Xiaodi;Gu Lihua;Jiang Xiaoming;Liu Yingfei;Liu Yun;Ren Minglei;Wang Gang;Wu Nan;Zhao Liping~

2021/06761 ~ Complete ~54:METHOD AND APPARATUS FOR GROUP CONTENT DELIVERY ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83 STOCKHOLM, SWEDEN, Sweden ~72: XIE, Jinyang;XU, Wenliang~ 33:CN ~31:PCT/CN2019/075212 ~32:15/02/2019

2021/06781 ~ Complete ~54:IMPLANT, ALIGNMENT GUIDES, SYSTEM AND METHODS OF USE ~71:Paragon 28, Inc., 14445 Grasslands Drive, ENGLEWOOD 80112, CO, USA, United States of America ~72: ALLARD, Randy;BRINKER, Laura Zagrocki;DACOSTA, Albert;HUNT, Richard David;RAYMOND, Spanky~ 33:US ~31:62/805,081 ~32:13/02/2019;33:US ~31:62/888,431 ~32:16/08/2019

2021/06766 ~ Complete ~54:COMPOUNDS AS INHIBITORS OF MACROPHAGE MIGRATION INHIBITORY FACTOR ~71:NANJING IMMUNOPHAGE BIOTECH CO., LTD., Room 1502-1, Building A, Phase 1, Zhongdan Ecological Life Science Industrial Park, People's Republic of China ~72: DU, Ping;FONG, Kin Chiu;YANG, Hongyu;YANG, Jinfu~ 33:US ~31:62/817,563 ~32:13/03/2019

2021/06776 ~ Complete ~54:DYNAMIC HYBRID AUTOMATIC REPEAT REQUEST (HARQ) CODEBOOK FOR MULTI-TRANSMIT RECEIVE POINT (TRP) COMMUNICATION ~71:QUALCOMM Incorporated, Attn: International IP Administration, 5775 Morehouse Drive, SAN DIEGO 92121-1714, CA, USA, United States of America ~72: KHOSHNEVISAN, Mostafa;SUN, Jing;ZHANG, Xiaoxia~ 33:US ~31:62/805,766 ~32:14/02/2019;33:US ~31:16/783,983 ~32:06/02/2020

2021/06745 ~ Complete ~54:GROUND-ENGAGING MECHANISM WEAR WARNING SYSTEM AND METHOD FOR A WORK MACHINE ~71:DEERE & amp; COMPANY, One John Deere Place, Moline, Illinois, 61265, United States of America ~72: ANDREW W. KAHLER;DOUGLAS T. CORBETT;MARK J. BESLER;NICHOLAS A. BOOK;NICOLAS HUBER;STEVEN R. WHITEMAN~ 33:US ~31:62/706,959 ~32:21/09/2020

2021/06757 ~ Complete ~54:EFFICIENT HEAT-DISSIPATION CONTROLLER FOR AUTOMOBILE AND PROTECTIVE SHELL THEREOF ~71:TAIZHOU ZHITONG TECHNOLOGY CO. LTD, ROOM B006, FIRST FLOOR, BUILDING NO.1, SANMEN PRINTING CULTURE AND TECHNOLOGY PIONEER PARK, NO.32 HUANCHENG MIDDLE ROAD, HAIYOU STREET, SANMEN COUNTY, People's Republic of China ~72: FEN CHEN;WANHUI ZHANG~

2021/06770 ~ Complete ~54:FOLDABLE DEVICE ~71:SAMSUNG ELECTRONICS CO., LTD., 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea ~72: YONGYOUN KIM~ 33:KR ~31:10-2019-0020117 ~32:20/02/2019

2021/06754 ~ Complete ~54:A NEW METHOD FOR ANALYSIS AND EXTRACTION OF LINEAR ANOMALIES IN SUBMARINE HYDROTHERMAL PROSPECTIVE ZONES ~71:Pilot National Laboratory for Marine Science and Technology (Qingdao), NO.1 Wenhai Road, Aoshanwei Town, Jimo District, Qingdao City, Shandong Province, People's Republic of China;The First Institute of Oceanography,MNR, NO.6 Xianxialing Road,Laoshan District, Qingdao City, Shandong Province, People's Republic of China;The First Institute of China ~72: Du Dewen;Hou Chengfei;Li Chuanshun;Ren Xiangwen;Shi Xinyu;Yan Shijuan;Yang Fengli;Yang Gang;Ye Jun;Zhu Zhiwei~

2021/06759 ~ Complete ~54:MULTIPLE GRANT HANDLING IN MIXED SERVICES SCENARIOS ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83 STOCKHOLM, SWEDEN, Sweden ~72: ALABBASI, Abdulrahman;DUDDA, Torsten;ENBUSKE, Henrik;PRADAS, Jose Luis;ZOU, Zhenhua~ 33:US ~31:62/805,906 ~32:14/02/2019

2021/06760 ~ Complete ~54:NETWORK NODE AND METHOD PERFORMED THEREIN FOR GENERATING A RADIO INTERFERENCE MITIGATION REFERENCE SIGNAL SEQUENCE ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83 STOCKHOLM, SWEDEN, Sweden ~72: FAXÉR, Sebastian;WERNER, Karl~ 33:US ~31:62/806,568 ~32:15/02/2019

2021/06767 ~ Complete ~54:REMEDIATION OF FOOD PRODUCTION AND PROCESSING EFFLUENTS AND WASTE PRODUCTS ~71:LOCUS IP COMPANY, LLC, 30500 Aurora Road, Suite 180, United States of America ~72: ALIBEK, Ken;FARMER, Sean;HEIDECORN, Keith~ 33:US ~31:62/824,382 ~32:27/03/2019

2021/06774 ~ Complete ~54:SYSTEMS AND METHODS FOR REMOVABLE BATTERY LOCKING ~71:BEN SHABAT, Yaakov Oren, 6 Per Haim St., Bnei Brak, 5130146, Israel ~72: BEN SHABAT, Yaakov Oren~ 33:IL ~31:265418 ~32:17/03/2019

2021/06762 ~ Complete ~54:BEAM INFORMATION IN EARLY MEASUREMENTS ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83 STOCKHOLM, SWEDEN, Sweden ~72: BERGQVIST, Jens;DA SILVA, Icaro L. J.~ 33:US ~31:62/805,602 ~32:14/02/2019

2021/06744 ~ Provisional ~54:TAXI TAG/TAXI COUPON ~71:Fortunate Moholoagae, 118 Henry Street, South Africa;Sabata Monane, 118 Henry Street, South Africa ~72: Fortunate Moholoagae;Sabata Monane~ 33:ZA ~31:ZA2021 ~32:01/09/2021

2021/06750 ~ Complete ~54:CLUSTERING METHOD BASED ON PARTICLE SWARM OPTIMIZATION FOR WIRELESS SENSOR NETWORKS ~71:Qingdao Agricultural University, No.700 Changcheng Road, Chengyang District, Qingdao City, Shandong Province, People's Republic of China ~72: Bai Xuefeng;Bi Caihong;Ding Zhaotang;Hao Fengqi;Li Li;Liu Gang;Ma Dexin;Ma Jian;Meng Fanjia;Wang Jiguo;Wang Wuchuang;Yun Yuliang;Zhang Jian;Zhang Miao;Zhang Qun~

2021/06756 ~ Complete ~54:AN INTEGRATED OXIDATIVE ALKANE DEHYDROGENATION AND HYDROGEN GENERATION PROCESS ~71:INDIAN OIL CORPORATION LIMITED, Indian Oil Bhavan, India ~72: DOOSA, Hima Bindu;KAPUR, Gurpreet Singh;NATH, Vineeth Venu;RAMAKUMAR, Sankara Sri Venkata;RAVULURI, Sahithi;SAU, Madhusudan;SUBRAMANI, Saravanan;THAKUR, Ram Mohan~ 33:IN ~31:202021040369 ~32:17/09/2020

2021/06758 ~ Complete ~54:SYSTEMS AND METHODS FOR SRS SWITCHING IMPACT CONTROL ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83 STOCKHOLM, SWEDEN, Sweden ~72: KAZMI, Muhammad;SIOMINA, Iana~ 33:US ~31:62/805,903 ~32:14/02/2019;33:US ~31:62/806,386 ~32:15/02/2019

2021/06763 ~ Complete ~54:AN ENHANCED UP FUNCTION REQUESTED PFCP ASSOCIATION RELEASE ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83 STOCKHOLM, SWEDEN, Sweden ~72: XU, Juan;YANG, Yong~ 33:CN ~31:PCT/CN2019/075050 ~32:14/02/2019

2021/06768 ~ Complete ~54:TRIAMTERENE OR NOLATREXED FOR USE IN THE TREATMENT OF PHENYLKETONURIA ~71:SOM INNOVATION BIOTECH, S.A., Baldiri Reixac 4, Torre I, E-08028, Barcelona, Spain ~72: ÓSCAR HUERTAS GAMBÍN;AILEEN FERRÉ FERRÉ;GAL.LA PERICOT MOHR;LUCA SIGNORILE;NÚRIA REIG BOLAÑO;RAÚL INSA BORONAT;SANTIAGO ESTEVA GRAS~ 33:EP ~31:19382102.2 ~32:14/02/2019

2021/06773 ~ Complete ~54:SPIRAL SEPARATORS AND PARTS THEREFORE ~71:OREKINETICS INVESTMENTS PTY LTD, 50 Charles Kurz Drive, Worongary, Brisbane, Queensland, 4213, Australia ~72: EZRA MCKENZIE;PETER GATES~ 33:AU ~31:2019900497 ~32:15/02/2019 2021/06775 ~ Complete ~54:CLEANING COMPOSITIONS COMPRISING ENZYMES ~71:The Procter & amp; Gamble Company, One Procter & amp; Gamble Plaza, CINCINNATI 45202, OH, USA, United States of America ~72: LANT, Neil Joseph;LATIMER, Katherine Esther~ 33:EP ~31:19162993.0 ~32:14/03/2019

2021/06778 ~ Complete ~54:GAP CONFIGURATION FOR MULTIPLE TRANSPORT BLOCKS ~71:QUALCOMM Incorporated, ATTN: International IP Administration, 5775 Morehouse Drive, SAN DIEGO 92121-1714, CA, USA, United States of America ~72: ANANDA, Raghavendra Shyam;LIU, Le;RICO ALVARINO, Alberto~ 33:IN ~31:201941005823 ~32:14/02/2019;33:US ~31:16/784,803 ~32:07/02/2020

- APPLIED ON 2021/09/14 -

2021/06787 ~ Complete ~54:METHOD FOR DIRECTLY PREPARING FOAMING MATERIAL BY USING BLAST FURNACE SLAG ~71:NORTH CHINA UNIVERSITY OF SCIENCE AND TECHNOLOGY, 21 Bohai Road, Caofeidian Xincheng, Tangshan, Hebei, 063210, People's Republic of China ~72: DU, Peipei;LI, Zhihui;LONG, Yue;QIU, Mingwei;XING, Lei;ZHAO, Pengyue~ 33:CN ~31:202010972023.4 ~32:16/09/2020

2021/06794 ~ Complete ~54:RAPID PROPAGATION METHOD OF WILD TEA PLANT (CAMELLIA TALIENSIS) ~71:Tea Research Institute, Yunnan Academy of Agricultural Sciences, No.2 Jingnan Street, Menghai Town, Menghai County, Xishuangbanna Dai Autonomous Prefecture, Yunnan Province, People's Republic of China ~72: Liu Benying;Tang Yichun;Yang Shengmei~

2021/06811 ~ Complete ~54:EXTRACELLULAR VESICLES FOR VACCINE DELIVERY ~71:Codiak BioSciences, Inc., 35 Cambridge Park Drive, Suite 500, CAMBRIDGE 02140, MA, USA, United States of America ~72: MCCONELL, Russell E.;MCCOY, Christine;MONIZ, Raymond J.;ROSS, Nikki;SOOS, Timothy J.;XU, Ke~ 33:US ~31:62/822,008 ~32:21/03/2019;33:US ~31:62/835,437 ~32:17/04/2019;33:US ~31:62/840,348 ~32:29/04/2019;33:US ~31:62/891,048 ~32:23/08/2019;33:US ~31:62/901,166 ~32:16/09/2019;33:US ~31:62/946,280 ~32:10/12/2019;33:US ~31:62/984,146 ~32:02/03/2020

2021/06807 ~ Complete ~54:ANTIBODIES HAVING SPECIFICITY FOR BTN2 AND USES THEREOF ~71:CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE - CNRS -, 3, rue Michel Ange 75016 Paris, France;IMCHECK THERAPEUTICS SAS, 180 avenue du Prado, 13008, Marseille, France;INSERM (INSTITUT NATIONAL DE LA SANTÉ ET DE LA RECHERCHE MÉDICALE), 101, rue de Tolbiac 75013 Paris, France;INSTITUT JEAN PAOLI & amp; IRENE CALMETTES, 232 boulevard de Sainte-Marguerite 13009 Marseille, France;UNIVERSITÉ D'AIX-MARSEILLE, 58 Boulevard Charles Livon 13007 Marseille, France ~72: CARLA CANO;CHRISTINE PASERO;DANIEL OLIVE;ETIENNE FOUCHER;KIEU SUONG LE~ 33:EP ~31:19305345.1 ~32:20/03/2019;33:EP ~31:19219691.3 ~32:24/12/2019

2021/06795 ~ Complete ~54:FOUR-WHEEL CART CAPABLE OF STEERING IN SITU ~71:Wenzhou Wangjinhu New Type Handling Equipment Technology Co., Ltd., Room 706, Building 2, Nanpu Nanyuan, Wenzhou, Zhejiang, 325000, People's Republic of China ~72: WANG, Jinhu~

2021/06815 ~ Complete ~54:CRYSTALLINE PYRIMIDINYL-3,8-DIAZABICYCLO[3.2.1]OCTANYLMETHANONE COMPOUND AND USE THEREOF ~71:Pfizer Inc., 235 East 42nd Street, NEW YORK 10017, NY, USA, United States of America ~72: SAMUEL, Amanda Patrice Surajhie;YANG, Xiaojing~ 33:US ~31:62/806,180 ~32:15/02/2019

2021/06818 ~ Complete ~54:PESTICIDALLY ACTIVE DIAZINE-AMIDE COMPOUNDS ~71:Syngenta Crop Protection AG, Rosentalstrasse 67, BASEL 4058, SWITZERLAND, Switzerland ~72: EDMUNDS, Andrew;GAGNEPAIN, Julien Daniel Henri;HALL, Roger Graham;JEANGUENAT, André;KOLLETH KRIEGER, Amandine;LE CHAPELAIN, Camille;PALWE, Shrikant;PHADTE, Mangala;PITTERNA, Thomas;RENDLER, Sebastian;SCARBOROUGH, Christopher Charles;SCHAETZER, Jürgen Harry~ 33:EP

~31:19167690.7 ~32:05/04/2019;33:EP ~31:19196235.6 ~32:09/09/2019;33:EP ~31:20151656.4 ~32:14/01/2020

2021/06801 ~ Complete ~54:FREQUENCY DOMAIN-BASED DETERMINATION OF CURRENTS FOR INJECTION INTO A POWER NETWORK ~71:UNIVERSITY OF CAPE TOWN, Lovers Walk, South Africa ~72: GAUNT, Charles Trevor;MALENGRET, Michel~ 33:GB ~31:1904736.4 ~32:04/04/2019

2021/06805 ~ Complete ~54:MONITORING DEVICE, DISPLAY DEVICE, MONITORING METHOD AND MONITORING PROGRAM ~71:SUMITOMO HEAVY INDUSTRIES, LTD., 1-1, Osaki 2-chome, Shinagawa-ku, Tokyo, 1416025, Japan ~72: MASANORI KADOWAKI~ 33:JP ~31:2019-048584 ~32:15/03/2019

2021/06783 ~ Provisional ~54:1ST RESPONSE EMERGENCY ~71:Themba Sivate, Stand no 1362, South Africa ~72: THEMBA SIVATE~

2021/06808 ~ Complete ~54:AGRICULTURAL COMPOSITIONS FOR USE IN CONTROLLING AND/OR TREATING DISEASE OF VASCULAR TISSUE IN PLANTS ~71:ORO AGRI INC., 2788 S. Maple Avenue, Fresno, California, 93725, United States of America ~72: LUIS CARLOS CALDEIRA CAVALCANTE;MARLON ASSUNÇÃO;PAULO SERGIO BERG~ 33:US ~31:62/807,654 ~32:19/02/2019

2021/06788 ~ Complete ~54:AUXILIARY DEVICE FOR BALLET TRAINING THAT IS CONVENIENT FOR CORRECTING DANCING POSTURES ~71:Guizhou University of Engineering Science, College Road, Bijie, Guizhou, 55170, People's Republic of China ~72: Hu Xian~

2021/06803 ~ Complete ~54:QUINOLINE CARBOXYLIC ACID ESTER COMPOUND AND PREPARATION METHOD AND USE THEREOF ~71:SHANDONG UNITED PESTICIDE INDUSTRY CO., LTD., Building 1, Middle Shengli Road, People's Republic of China ~72: CHI, Huiwei;HAN, Jun;LIU, Ying;TANG, Jianfeng;WU, Jianting;XU, Hui;ZHANG, Zhenguo;ZHAO, Baoxiu~ 33:CN ~31:201910273279.3 ~32:04/04/2019;33:CN ~31:201910512103.9 ~32:13/06/2019

2021/06784 ~ Provisional ~54:EXTRACTION DEVICE ASSEMBLY ~71:STELLENBOSCH UNIVERSITY, Admin B, Victoria Street, South Africa ~72: DIJKSTRA, Stephan;NIEUWOUDT, Martinus Johannes;THERON, Grant De Vos;VENTER, Rouxjeane;WARREN, Robin Mark~

2021/06796 ~ Complete ~54:TRADITIONAL CHINESE MEDICINE COMPOSITION FOR PREVENTING AND TREATING MYCOPLASMA GALLISEPTICUM AND ESCHERICHIA COLI MIXED INFECTION OF POULTRY AND PREPARATION METHOD THEREOF ~71:NORTHEAST AGRICULTURAL UNIVERSITY, NO.600 CHANGJIANG STREET, People's Republic of China ~72: BAO, JIAXIN;CHEN, CHUNLI;LI, JICHANG;LI, RUI;WU, ZHIYONG~

2021/06810 ~ Complete ~54:THERMAL FRACTURE AND MICROCARBON SEPARATION OF COAL PARTICLES ~71:OMNIS ADVANCED TECHNOLOGIES (HK) LTD., 9th Floor, Hutchinson House, 10 Harcourt Road, Hong Kong, Hong Kong, People's Republic of China ~72: DOUGLAS E GRUNDER;JAMES S SWENSEN;SIMON K HODSON~ 33:US ~31:62/807,655 ~32:19/02/2019;33:US ~31:16/795,345 ~32:19/02/2020

2021/06791 ~ Complete ~54:SPRAY UNMANNED AERIAL VEHICLE ~71:Tobacco Research Institute of Chinese Academy of Agricultural Sciences (Qingzhou Tobacco Research Institute of China National Tobacco Company), No. 11, Keyuan Jingsi Road, Laoshan District, Qingdao, Shandong, 266101, People's Republic of China ~72: HUANG, Bin;REN, Guangwei;WANG, Fenglong;WANG, Jie;WANG, Jing~ 33:CN ~31:202110373920.8 ~32:07/04/2021

2021/06813 ~ Complete ~54:SUBSTITUTED BICYCLIC COMPOUNDS AS FARNESOID X RECEPTOR MODULATORS ~71:Bristol-Myers Squibb Company, Route 206 and Province Line Road, PRINCETON 08543, NJ, USA, United States of America ~72: BANDREDDY, Subba Reddy;CHERUKU, Srinivas;JAIPURI, Firoz Ali;JOGI, Srinivas;KATHI, Pavan Kalyan;NARA, Susheel Jethanand;NARAYAN, Rishikesh;SARKUNAM, Kandhasamy;THANGAVEL, Soodamani;WACKER, Dean A.~ 33:US ~31:62/806,066 ~32:15/02/2019

2021/06798 ~ Complete ~54:METHODS AND APPARATUS FOR SUB-PICTURE ADAPTIVE RESOLUTION CHANGE ~71:VID SCALE, INC., 200 Bellevue Parkway, Suite 300 Wilmington, United States of America ~72: HE, Yong;HE, Yuwen;NEFF, Ralph~ 33:US ~31:62/816,686 ~32:11/03/2019;33:US ~31:62/866,528 ~32:25/06/2019

2021/06809 ~ Complete ~54:MEDIUM CHAIN TRIGLYCERIDE FORMULATIONS WITH IMPROVED BIOAVAILIBLITY AND METHODS RELATED THERETO ~71:CERECIN INC., 44 Cook Street, Suite 100-71, Denver, Colorado, 80202, United States of America ~72: JUDITH WALKER;SAMUEL T HENDERSON;TARYN BOIVIN~ 33:US ~31:62/813,448 ~32:04/03/2019;33:US ~31:62/837,136 ~32:22/04/2019

2021/06785 ~ Provisional ~54:TRANSPORTATION MANAGEMENT SYSTEM ~71:THABISO CYRUS MOLOKO, 12 Lincoln Estates, Lincoln Avenue, New Market, Alberton, Gauteng, 1448, South Africa ~72: THABISO CYRUS MOLOKO~

2021/06797 ~ Complete ~54:ANTI-MUC16 ANTIBODIES AND USES THEREOF ~71:MEMORIAL SLOAN KETTERING CANCER CENTER, 1275 York Avenue, New York, New York, 10065, United States of America ~72: ALBERTO FERNANDEZ-TEJADA;DAVID SPRIGGS;DHARMARAO THAPI~ 33:US ~31:62/134,402 ~32:17/03/2015

2021/06814 ~ Complete ~54:COMBINATION THERAPY FOR TREATMENT OF B-CELL MALIGNANCIES ~71:Janssen Biotech, Inc., 800/850 Ridgeview Drive, HORSHAM 19044, PA, USA, United States of America ~72: BALASUBRAMANIAN, Sriram~ 33:US ~31:62/806,148 ~32:15/02/2019

2021/06782 ~ Provisional ~54:SLUSH BEVERAGE MACHINE ~71:JML CONSULTING (PTY) LTD, 55 Aspen Villas, Kopje Road, Morningside, Sandton, South Africa ~72: DE CARVALHO, João Marco;FAGRI, Natasha Bianca;KESSELL, Jason Bradley~

2021/06789 ~ Complete ~54:PORTABLE URINE BAG AND ITS CLAMPING HEAD ~71:Huzhou University, No. 759 East 2nd Road, Huzhou, Zhejiang province, People's Republic of China ~72: Shen xuhui;Yao jinlan~

2021/06793 ~ Complete ~54:GREEN PREVENTION AND CONTROL METHODS OF POTATO LATE BLIGHT ~71:Inner Mongolia Academy of Agricultural & amp; Animal Husbandry Sciences, 22 Zhaojun Road, Yuquan District, Hohhot City, Inner Mongolia Autonomous Region, People's Republic of China;Inner Mongolia Agricultural University, No.29, Ordos East Street, Saihan District, Hohhot City, Inner Mongolia Autonomous Region, People's Republic of China;Wlanqab Bureau of Agriculture and Animal Husbandry, Chahar West Street, Jining District, Ulanqab City, Inner Mongolia Autonomous Region, People's Republic of China ~72: Guo Jingshan;Hao Yulian;Jia Ruifang;Li Huanchun;Wang Dong;Xu Limin;Zhang Jun;Zhao Peiyi;Zhao Yuanzheng;Zhi Xiaoqing~

2021/06802 ~ Complete ~54:SECURITY MARKERS ~71:CRIME SOLUTIONS LIMITED, Westland Square, Dewsbury Road, United Kingdom ~72: MAXWELL, Paul~ 33:GB ~31:1819256.7 ~32:27/11/2018

2021/06804 ~ Complete ~54:ELECTRONIC DEVICE INCLUDING ANTENNA DEVICE ~71:SAMSUNG ELECTRONICS CO., LTD., 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea ~72: DONGJUN OH;JONGHYUCK LEE;SHINHO YOON;SOONHO HWANG~ 33:KR ~31:10-2019-0019551 ~32:19/02/2019;33:KR ~31:10-2019-0078718 ~32:01/07/2019 2021/06792 ~ Complete ~54:INCOMING OIL MEASUREMENT INDICATOR OF HYDRAULIC PIPELINE AND DETECTION METHOD ~71:SONG, Yanhong, No.4 Community, Zhanpo, Lianfeng Town, Weiyuan County, Dingxi City, Gansu Province, 748208, People's Republic of China ~72: MA, Li;SONG, Yanhong~

2021/06800 ~ Complete ~54:COMPOSITIONS AND METHODS FOR TREATING NEURODEGENERATIVE DISORDERS ~71:RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY, 83 Somerset Street, New Brunswick, NJ, United States of America;SILAGENE, INC., 1 Ilene Court, Suite 9, United States of America ~72: GORACZNIAK, Rafal;GUNDERSON, Samuel, Ian~ 33:US ~31:62/824,066 ~32:26/03/2019

2021/06806 ~ Complete ~54:METHOD AND APPARATUS FOR REMOVING PLANTS OR OTHER MATERIAL EXISTING IN WATER ~71:LÄNNEN MCE OY, Hirvikoskentie 242, Loimaa, 32210, Finland ~72: JYRKI HEINO;TONI MIKKOLA~ 33:FI ~31:20190024 ~32:05/04/2019

2021/06816 ~ Complete ~54:A PROCESS FOR MAKING A LAUNDRY DETERGENT COMPOSITION ~71:The Procter & amp; Gamble Company, One Procter & amp; Gamble Plaza, CINCINNATI 45202, OH, USA, United States of America ~72: AHMADIAN, Hossein;DUCKITT, Claire Louise;GOULD, Paul Anthony;ROBLES, Eric San Jose;TANTAWY, Hossam Hassan~ 33:EP ~31:19171583.8 ~32:29/04/2019

2021/06786 ~ Complete ~54:A CHINESE MEDICINAL COMPOSITION FOR STRENGTHENING BODY RESISTANCE, ANTIVIRAL AND EPIDEMIC PREVENTION, AND ITS PREPARATION METHOD ~71:Shenzhen Institute of Geriatrics, No.3002 Sungang West Road, Futian District, Shenzhen, Guangdong Province, People's Republic of China;Wu Zhengzhi, No.3002 Sungang West Road, Futian District, Shenzhen, Guangdong Province, People's Republic of China ~72: Hu Shengquan;Jia Dan;Li Ziwen;Liang Shaoyu;Liu Zhanyan;Wu Zhengzhi;Zeng Yongchang~

2021/06799 ~ Complete ~54:COMPOSITIONS AND METHODS FOR TREATING HUNTINGTON'S DISEASE ~71:RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY, 83 Somerset Street, New Brunswick, NJ, United States of America;SILAGENE, INC., 1 Ilene Court, Suite 9, United States of America ~72: GORACZNIAK, Rafal;GUNDERSON, Samuel, Ian~ 33:US ~31:62/815,647 ~32:08/03/2019

2021/06819 ~ Complete ~54:COMPOUNDS WITH FERROPTOSIS INDUCING ACTIVITY AND METHODS OF THEIR USE ~71:Ferro Therapeutics, Inc., 421 Kipling Street, Palo Alto, United States of America ~72: CHEN, Ruihong;DURAISWAMY, Athisayamani, Jeyaraj;JIANG, Chun;KALITA, Biswajit;PANDEY, Anjali~ 33:US ~31:16/287,805 ~32:27/02/2019;33:US ~31:PCT/US2019/019854 ~32:27/02/2019;33:US ~31:62/893,092 ~32:28/08/2019

2021/06790 ~ Complete ~54:PESTICIDE SPRAYING DEVICE BASED ON UNMANNED AERIAL VEHICLE AND CONTROL METHOD THEREOF ~71:China Tobacco Guangxi Industrial Co.,Ltd., No. 28, Beihu South Road, Xixiangtang District, Nanning, Guangxi , 530001, People's Republic of China;Tobacco Research Institute of Chinese Academy of Agricultural Sciences (Qingzhou Tobacco Research Institute of China National Tobacco Company), No. 11, Keyuan Jingsi Road, Laoshan District, Qingdao, Shandong, 266101, People's Republic of China ~72: HUANG, Bin;HUANG, Chongjun;JIA, Haijiang;REN, Guangwei;WANG, Fenglong;WANG, Jie;WANG, Jing;WEI, Jianyu~ 33:CN ~31:202110348416.2 ~32:31/03/2021

2021/06812 ~ Complete ~54:METHODS AND COMPOSITIONS FOR EDITING NUCLEOTIDE SEQUENCES ~71:Massachusetts Institute of Technology, 77 Massachusetts Avenue, CAMBRIDGE 02139, MA, USA, United States of America;President and Fellows of Harvard College, 17 Quincy Street, CAMBRIDGE 02138, MA, USA, United States of America;The Broad Institute, Inc., 415 Main Street, CAMBRIDGE 02142, MA, USA, United States of America ~72: ANZALONE, Andrew Vito;LIU, David R.;SHEN, Max Walt~ 33:US ~31:62/820,813 ~32:19/03/2019;33:US ~31:62/858,958 ~32:07/06/2019;33:US ~31:62/889,996 ~32:21/08/2019;33:US ~31:62/913,553 ~32:10/10/2019;33:US ~31:62/973,558

~32:10/10/2019;33:US ~31:62/931,195 ~32:05/11/2019;33:US ~31:62/944,231 ~32:05/12/2019;33:US ~31:62/974,537 ~32:05/12/2019;33:US ~31:62/991,069 ~32:17/03/2020;33:US ~31:63/100,548 ~32:17/03/2020

2021/06817 ~ Complete ~54:T CELL RECEPTORS AND METHODS OF USE THEREOF ~71:University Health Network, 190 Elizabeth Street, R. Fraser Elliott Bldg., Room 1S-417, TORONTO M5G-2C4, ONTARIO, CANADA, Canada ~72: HIRANO, Naoto;MURATA, Kenji;SASO, Kayoko~ 33:US ~31:62/823,487 ~32:25/03/2019

- APPLIED ON 2021/09/17 -

2021/07145 ~ Provisional ~54:ADDO TRADING - HOLISTIC TRADING ~71:JUDITH REFILOE MOGOTSI, 16 RUGBY ROAD, HENLEY ON KLIP, South Africa ~72: JUDITH REFILOE MOGOTSI~

2021/06822 ~ Provisional ~54:A CLAMP ASSEMBLY FOR A CONVEYOR BELT ~71:SHAW-ALMEX INDUSTRIES, PO Box 430, Parry Sound, P2A 2X4, ONTARIO, CANADA, Canada ~72: DUNCAN, David Robert;SHAW, Timothy Glen~

2021/06826 ~ Complete ~54:NATURAL PLANT ADDITIVE FOR IMPROVING REPRODUCTIVE PERFORMANCE OF SOWS AND PREPARATION METHOD THEREOF ~71:HEILONGJIANG ACADEMY OF AGRICULTURAL SCIENCES, NO. 368, XUEFU ROAD, NANGANG DISTRICT, HARBIN, People's Republic of China ~72: CHEN, Heshu;FENG, Yanzhong;HE, Haijuan;HE, Xinmiao;LIU, Di;LIU, Ziguang;QI, Meiyu;TIAN, Ming;WANG, Liang;WANG, Wentao;WU, Saihui;XIA, Jiqiao;YU, Xiaolong;ZHANG, Haifeng~

2021/06830 ~ Complete ~54:METHOD FOR HIGH-THROUGHPUT MULTIPLEX PCR OF SOYBEAN SSR MARKERS ~71:Institute of Crop Science, Chinese Academy of Agricultural Sciences, 12 Zhongguancun South Street, Haidian District, Beijing, People's Republic of China ~72: Guan Rongxia;Guo Xiaoyang;Liu Xiexiang;Lu Yipeng;Qiu Lijuan;Zhao Tingting~

2021/06838 ~ Complete ~54:PROCESSING METHOD OF SWEET POTATO ORAL LIQUID WITH BLOOD LIPID REDUCING EFFECT ~71:Xuzhou Institute of Agricultural Sciences of the Xuhuai District, Kunpeng Road, Gulou District, Xuzhou, Jiangsu Province, People's Republic of China ~72: Ma Chen;Niu Fuxiang;Sun Jian;Wang Hongyun;Xu Fei;Yue Ruixue;Zhang Wenting;Zhang Yi;Zhu Hong~

2021/06847 ~ Complete ~54:DECODING AUDIO BITSTREAMS WITH ENHANCED SPECTRAL BAND REPLICATION METADATA IN AT LEAST ONE FILL ELEMENT ~71:DOLBY INTERNATIONAL AB, Apollo Building, 3E Herikerbergweg 1-35, 1101 CN, Amersterdam Zuidoost, Netherlands ~72: HEIKO PURNHAGEN;LARS VILLEMOES;PER EKSTRAND~ 33:EP ~31:15159067.6 ~32:13/03/2015;33:US ~31:62/133,800 ~32:16/03/2015

2021/06853 ~ Complete ~54:TAGGING PUMP MESSAGES WITH IDENTIFIERS THAT FACILITATE RESTRUCTURING ~71:ICU MEDICAL, INC., 951 Calle Amanecer, United States of America ~72: DEOSTHALE, Chaitanya;ENGER, Larry;ISENSEE, Anthony;KRABBE, Dennis;PATIAG, Lito;XAVIER, Ben~ 33:US ~31:62/699,499 ~32:17/07/2018

2021/06861 ~ Complete ~54:FIRE EARLY WARNING DEVICE FOR INTELLIGENT FORESTRY ~71:Central South University of Forestry and Technology, Central South University of forestry and technology, No. 498, Shaoshan South Road, Changsha, Hunan, People's Republic of China ~72: Zhang Jiang~

2021/06866 ~ Complete ~54:OVERHEAD DISINFECTING SYSTEM ~71:TEIXEIRA, Augusto Jorge Da Silva, 768 Poortjie Avenue, LITTLE FALLS, Roodepoort, 1724, Gauteng, SOUTH AFRICA, South Africa;WEBB, Devon

Quinton, 30 Bellini Crescent, WILGEHEUWEL, 1724, Gauteng, SOUTH AFRICA, South Africa ~72: TEIXEIRA, Augusto Jorge Da Silva;WEBB, Devon Quinton~ 33:ZA ~31:2020/03272 ~32:17/06/2020

2021/06867 ~ Complete ~54:COMPOUNDS, COMPOSITIONS AND METHODS FOR UTILIZATION OF NON-COKING COAL ~71:SREECHEM RESIN LIMITED, Village - Jhagarpur, P.O. - Rajgangpur, India;TATA STEEL LIMITED, Jamshedpur, India ~72: DAS, Bidyut;DASH, Pratik Swarup;GHORAI, Soumitra;MESHRAM, Ajinkya;NAG, Debjani;SHARMA, Binod;SINGH, Ranjan Kumar~ 33:IN ~31:201931009178 ~32:08/03/2019

2021/06873 ~ Complete ~54:SUSPENSION ASSEMBLY ~71:AL-KO INTERNATIONAL PTY LTD, 67-91 Nathan Road, Dandenong South, Australia ~72: JOHN, Jibu;LIZZA, John~ 33:AU ~31:2019900864 ~32:15/03/2019

2021/06875 ~ Complete ~54:HANDLING OF TRANSMISSIONS IN THE SERVING CELL DISCOVERY BURST TRANSMISSION (DBT) WINDOW ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), 164 83, Sweden ~72: ALRIKSSON, Peter;GRANT, Stephen;KOORAPATY, Havish;WITTENMARK, Emma~ 33:US ~31:62/826,783 ~32:29/03/2019

2021/06835 ~ Complete ~54:A SEAL-TYPE HIGH-SPEED TRANSPORTATION AND ACCURATE INFO-PUSHING UNIT APPLIED FOR BAGGAGE CHECK-IN AT THE AIRPORT AS WELL AS THE METHOD AND THE SYSTEM THEREOF ~71:SHANDONG UNIVERSITY OF SCIENCE AND TECHNOLOGY, 579 Qianwangang Road, Huangdao District, Qingdao, Shandong Province, 266590, People's Republic of China ~72: CHEN, Hong;GUAN, Yihao;HOU, Tianyou;JIA, Shun;JIE, Xiaoming;MIN, Xiangpeng;WANG, Shang;WANG, Zhiqiang;ZHANG, Wen;ZHAO, Jiali;ZHOU, Guangfeng~

2021/06836 ~ Complete ~54:BIONIC BRAKE PAD BACKBOARD WITH HIGH ADHESION ~71:Jilin University, No.2699 Qianjin Street, Changchun City, Jilin Province, People's Republic of China ~72: Cao Feipeng;Chen Zhanling;Gao Fuhui;Han Mingxing;Ma Yunhai;Wan Jianlin;Yuan Shengwang;Zhang Qifeng~

2021/06860 ~ Complete ~54:APPLICATION OF GRAPE SEED EXTRACT IN PREPARING MEDICINE FOR PROMOTING ADOLESCENT BONE GROWTH ~71:Henan Luoyang orthopedic hospital (Henan orthopedic hospital), No. 82, Qiming South Road, Chanhe District, Luoyang City, Henan Province, People's Republic of China ~72: Guo Yanxing;Li Wuyin;Ning Taoli;Xie Yan;Zhang Hongdu~

2021/06926 ~ Complete ~54:JAK1 PATHWAY INHIBITORS FOR THE TREATMENT OF CHRONIC LUNG ALLOGRAFT DYSFUNCTION ~71:Incyte Corporation, 1801 Augustine Cut-Off, WILMINGTON 19803, DE, USA, United States of America ~72: O'HAYER, Kevin;SCHAUB, Richard L.~ 33:US ~31:62/814,085 ~32:05/03/2019

2021/06843 ~ Complete ~54:MASTITIS LINIMENT AND PREPARATION METHOD THEREOF ~71:Jiangxi Wenxu Biological Technology Co., Ltd., Block B12-15-2, Control Regulations, New Industrial Park, Jinggangshan Economic and Technological Development Zone, Ji'an, Jiangxi, 343100, People's Republic of China ~72: XIE, Xinwen;ZHOU, Zhixu~

2021/06846 ~ Complete ~54:MINIMALLY INVASIVE SURGERY ROBOT WITH DOUBLE ENDOSCOPES AND OPERATION METHOD THEREOF ~71:Shenzhen Institute of Geriatrics, No.3002 Sungang West Road, Futian District, Shenzhen, Guangdong Province, People's Republic of China;Wu Zhengzhi, No.3002 Sungang West Road, Futian District, Shenzhen, Guangdong Province, People's Republic of China ~72: Duan Lihong;Hou Anxin;Li Weiguang;Li Weiping;Lin Zhuohua;Liu Quanquan;Shang Wanfeng;Shen Yajing;Shi Qing;Sun Tongyang;Wang Chunbao;Wu Zhengzhi;Zhang Xin~

2021/06856 ~ Complete ~54:POULTRY BEHAVIOR IDENTIFICATION METHOD BASED ON DEEP CONVOLUTIONAL NEURAL NETWORK ~71:SHANDONG UNIVERSITY OF SCIENCE AND TECHNOLOGY, No.579 Qianwangang Road, Huangdao District, Qingdao, Shandong Province, 266590, People's Republic of China ~72: FAN, Mingqu;LIAN, Jian;PU, Haitao~

2021/06859 ~ Complete ~54:A FOLDABLE IT MOBILE TEACHING DEVICE ~71:Guangzhou Industrial and Commercial College, Guangzhou Industrial and Commercial College No. 5, Haibu Guangming Road, Shiling Town Huadu District Guangzhou City, Guangdong, People's Republic of China ~72: Zhu Qingshan~

2021/06864 ~ Complete ~54:RAPID VIABLE DNA SCREENING INSTRUMENT AND USE METHOD AND APPLICATION THEREOF ~71:SHANGHAI OCEAN UNIVERSITY, No. 999, Huchenghuan Road, Pudong New District, People's Republic of China ~72: HUANG, Zhenhua;LIU, Jing;TAO, Qian;WU, Qian;ZHANG, Zhaohuan;ZHAO, Yong~ 33:CN ~31:202110082274.X ~32:21/01/2021

2021/06870 ~ Complete ~54:METHOD FOR COORDINATING AN IDENTIFICATION AND THE PROCESSING OF A DEFECT OF A WORKPIECE, AND DEVICE FOR CARRYING OUT THE METHOD ~71:RUD. STARCKE GMBH & amp; CO. KG, Markt 10, Germany ~72: Christian WALL;Werner UNNERSTALL~

2021/06876 ~ Complete ~54:TOPICAL FORMULATIONS FOR TREATMENT OF PERIPHERAL NEUROPATHIES ~71:WINSANTOR, INC., 6150 Lusk Boulevard, Suite B201, United States of America ~72: HANSEN, Angela;KISAK, Edward;NEWSAM, John M.~ 33:US ~31:62/824,060 ~32:26/03/2019

2021/06877 ~ Complete ~54:VAGINAL TABLET FORMULATION ~71:GEDEA BIOTECH AB, Medicon Village, Sweden ~72: ELLERVIK, Ulf;LINDBERG, Nils-Olof;MANNER, Sophie;SÄFHOLM, Annette;STERNER, Olov;STREVENS, Helena~ 33:EP ~31:19167495.1 ~32:05/04/2019

2021/06879 ~ Complete ~54:SETTING HARQ TIMING FOR PDSCH WITH PENDING PDSCH-TO-HARQ-TIMING-INDICATOR ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83, Sweden ~72: FALAHATI, Sorour;KARAKI, Reem;LIU, Yuhang;RUNE, Johan~ 33:US ~31:62/836,228 ~32:19/04/2019

2021/06881 ~ Complete ~54:RAPID REAPING AND REMOVING APPARATUS FOR FOREST DWARF PLANTS ~71:BINZHOU UNIVERSITY, Binzhou University, No.391, Huanghe No.5 Road Binzhou, Shandong, 256600, People's Republic of China ~72: LIU, Xiaoliang~ 33:CN ~31:202110453064.7 ~32:26/04/2021

2021/06882 ~ Complete ~54:METHOD FOR RAPID PREPARATION OF EPIDEMIC AND INFECTIOUS BRONCHITIS VACCINE ~71:SOUTH CHINA AGRICULTURAL UNIVERSITY, No.483, Wushan Street, Tianhe District, Guangzhou, Guangdong, 510642, People's Republic of China ~72: FENG, Keyu;FU, Jun;SHAO, Guanming;XIE, Qingmei;ZHANG, Xinheng~ 33:CN ~31:201911161596.2 ~32:22/11/2019

2021/06883 ~ Complete ~54:A SUBUNIT VACCINE FOR TREATMENT OR PREVENTION OF A RESPIRATORY TRACT INFECTION ~71:VALNEVA SE, 6, rue Alain Bombard, 44800, Saint-Herblain, France ~72: LUNDBERG, Urban;MEINKE, Andreas;PERUGI, Fabien;SCHÜLER, Wolfgang;SCHWAMBORN, Klaus~ 33:EP ~31:19175413.4 ~32:20/05/2019

2021/06885 ~ Complete ~54:LIGHT EMISSION DEVICE ~71:SEOUL VIOSYS CO., LTD., 65-16, Sandan-ro 163 beon-gil, Danwon-gu, Ansan-si, Gyeonggi-do, Republic of Korea ~72: BAE, Hee Ho;LEE, A Young;LEE, Chung Hoon;YOON, Yeong Min~ 33:US ~31:62/820,493 ~32:19/03/2019;33:US ~31:16/821,024 ~32:17/03/2020

2021/06889 ~ Complete ~54:POLYNUCLEOTIDES, COMPOSITIONS, AND METHODS FOR POLYPEPTIDE EXPRESSION ~71:INTELLIA THERAPEUTICS, INC., 40 Erie Street, Cambridge, United States of America ~72: ALEXANDER, Seth C.;DOMBROWSKI, Christian;MURRAY, Bradley, Andrew~ 33:US ~31:62/825,656 ~32:28/03/2019

2021/06893 ~ Complete ~54:METHODS FOR LABELING EUKARYOTIC CELLS FROM A MULTICELLULAR ORGANISM AS WELL AS FOR TREATING AND/OR DIAGNOSING A CANCER USING MODIFIED MONOSACCHARIDE COMPOUNDS ~71:DIAMIDEX, ZONE LUMINY BIOTECH CASE 922 163, AVENUE DE LUMINY, 13288 MARSEILLE, CEDEX 9, FRANCE, France ~72: DUKAN, Sam~ 33:EP ~31:19305202.4 ~32:20/02/2019

2021/06894 ~ Complete ~54:MODULATORS OF TDP-43 ~71:ALTERON THERAPEUTICS, INC., 330W 58th St, Apt 16G, New York, United States of America ~72: ZHANG, Chengliang;ZHANG, Xinchun~ 33:US ~31:62/820,158 ~32:18/03/2019

2021/06896 ~ Complete ~54:ELECTRICAL CONTACT ELEMENT ~71:ERNI INTERNATIONAL AG, Zürichstrasse 72, CH-8306, Switzerland ~72: BURGER, Michael~ 33:DE ~31:10 2019 115 239.9 ~32:05/06/2019

2021/06905 ~ Complete ~54:ASSIST DEVICE, DISPLAY DEVICE, ASSIST METHOD, AND ASSIST PROGRAM ~71:SUMITOMO HEAVY INDUSTRIES, LTD., 1-1, Osaki 2-chome, Shinagawa-ku, Tokyo, 1416025, Japan ~72: MASANORI KADOWAKI~ 33:JP ~31:2019-051260 ~32:19/03/2019

2021/06908 ~ Complete ~54:NONLINEAR ADAPTIVE LOOP FILTERING IN VIDEO PROCESSING ~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;KAI ZHANG;LI ZHANG;YUE WANG~ 33:CN ~31:PCT/CN2019/079395 ~32:24/03/2019

2021/06909 ~ Complete ~54:A PROCESS AND A SPINNING LINE UNIT FOR WET SPINNING OF CELLULOSE FIBERS FROM AN ALKALINE SPIN BATH ~71:TREETOTEXTILE AB, Norra Villavägen 17, 237 34, Bjärred, Sweden ~72: BENGT HAGSTRÖM;JONAS ENGSTRÖM;TOBIAS KÖHNKE~ 33:SE ~31:1950223-6 ~32:21/02/2019

2021/06911 ~ Complete ~54:ELECTRONIC DEVICE FOR REDUCING OCCURRENCE OF UNINTENDED USER INPUT AND OPERATION METHOD FOR THE SAME ~71:SAMSUNG ELECTRONICS CO., LTD., 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea ~72: BYOUNGHO JUNG;ILJOO CHAE;KIWON KIM;KWONHO SONG;MOOYOUNG KIM;SANGIL PARK;SUNGJUN LEE~ 33:KR ~31:10-2019-0019492 ~32:19/02/2019

2021/06916 ~ Complete ~54:DRIVE ARRANGEMENT ~71:UNIVERSITY OF PRETORIA, Lynnwood Road, Hillcrest, PRETORIA 0002, SOUTH AFRICA, South Africa ~72: MARX, Douw~ 33:ZA ~31:2019/02310 ~32:12/04/2019

2021/06921 ~ Complete ~54:VACUUM TUBE RAILWAY SYSTEM ~71:Nevomo Poland Spolka Z Ograniczona Odpowiedzialnoscia, Mińska No. 63A, Unit 245, WARSAW 03-828, POLAND, Poland ~72: MIELCZAREK, Lukasz;PACZEK, Przemyslaw;RADZISZEWSKI, Pawel;SWIATEK, Grzegorz~ 33:PL ~31:P.429274 ~32:14/03/2019

2021/06922 ~ Complete ~54:DIMENSIONALLY STABLE RECYCLABLE PLASTIC PACKAGE ~71:Colgate-Palmolive Company, 300 Park Avenue, NEW YORK 10022, NY, USA, United States of America ~72: WANG, Jun~ 33:US ~31:62/843,691 ~32:06/05/2019;33:US ~31:16/721,472 ~32:19/12/2019

2021/06930 ~ Complete ~54:ELECTRONIC AEROSOL PROVISION SYSTEM ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: CHEN,

Shixiang;FOSS-SMITH, Geoff;POTTER, Mark;POYNTON, Simon;YILMAZ, Ugurhan~ 33:GB ~31:1903231.7 ~32:11/03/2019

2021/06931 ~ Complete ~54:PROCESS FOR THE PREPARATION OF DERIVATIVES OF 1,1-DIALKYLETHANE-1,2-DIOLS AS USEFUL INTERMEDIATES ~71:Council of Scientific and Industrial Research, Anusadhan Bhavan, 2 Rafi Marg, DELHI 110001, NEW DELHI, INDIA, India ~72: AHMED, Riyaz;RAINA, Sushil;SHARMA, Sumit;SINGH, Parvinder Pal;VISHWAKARMA, Ram Ashrey~ 33:IN ~31:201911013022 ~32:01/04/2019

2021/06821 ~ Provisional ~54:ADAPTIVE RESISTANCE EXERCISE METHOD, DEVICE AND SYSTEM ~71:HOFSTEE, Erik Jan Willem, 290 Bootes Street, South Africa ~72: HOFSTEE, Erik Jan Willem~

2021/06844 ~ Complete ~54:WARNING DEVICE FOR OVERWATER LIFE-SAVING ~71:Chongqing University of Science and Technology, Chongqing University of Science and Technology, University Town, Shapingba District, Chongqing, 401331, People's Republic of China ~72: He, Zhixue;Niu, Yihui;Zhang, Tong~ 33:CN ~31:CN202122078745.8 ~32:31/08/2021

2021/06852 ~ Complete ~54:GEOSPATIAL AGGREGATING AND LAYERING OF FIELD DATA ~71:FARMOBILE LLC, 4001 West 114th Street, Suite 300, Leawood, Kansas, 66211-2602, United States of America ~72: JASON G TATGE;JONATHAN S CARENZA;SARAH MICHELLE TYNES;TYRONE AVERY GROVES~ 33:US ~31:17/024,308 ~32:17/09/2020

2021/06865 ~ Complete ~54:WATER TESTING ~71:BOTES, Elsabe, 9 Oldfield Street, Fichardt Park, South Africa ~72: BOTES, Elsabe;DE SMIDT, Olga;LE ROUX, Francois Pieter~ 33:ZA ~31:2020/05300 ~32:26/08/2020

2021/06868 ~ Complete ~54:BIOLOGICAL SINTERING WITHOUT HEAT OR PRESSURE ~71:BIOMASON INC., 2 Triangle Drive, Durham, United States of America ~72: DOSIER, Ginger K.;DOSIER, J. Michael~ 33:US ~31:62/806,346 ~32:15/02/2019

2021/06878 ~ Complete ~54:REGENERATION VALVE FOR A HYDRAULIC CIRCUIT ~71:CATERPILLAR INC., 100 NE Adams Street Peoria, United States of America ~72: FERRAZ, John Jr.;JACKSON, Michael Thomas;O'NEILL, William Norbert~ 33:US ~31:16/357,459 ~32:19/03/2019

2021/06880 ~ Complete ~54:ANTI-CLAUDIN 18.2 ANTIBODY AND APPLICATION THEREOF ~71:JIANGSU HENGRUI MEDICINE CO., LTD., No. 7 Kunlunshan Road, Economic and Technological Development Zone,, People's Republic of China;SHANGHAI HENGRUI PHARMACEUTICAL CO., LTD., No. 279 Wenjing Road, Minhang District, People's Republic of China ~72: GE, Hu;TAO, Weikang;YANG, Yang~ 33:CN ~31:201910257853.6 ~32:01/04/2019

2021/06884 ~ Complete ~54:LONG-TERM STABLE LIVE FECAL MICROBIOTA COMPOSITION ~71:FUNDACIÓ CLÍNIC PER A LA RECERCA BIOMÈDICA, C. Rosselló 149-153, Spain;HOSPITAL CLÍNIC DE BARCELONA, C. Villarroel 170, Spain;INSTITUT D'INVESTIGACIONS BIOMÈDIQUES AUGUST PI I SUNYER (IDIBAPS), C. Rosselló 149-153, Spain;UNIVERSITAT DE BARCELONA, Centre de Patents de la UB Baldiri Reixac 4 - Torre D, Spain ~72: AIRA GOMEZ, Andrea;FEHER, Csaba;SORIANO VILADOMIU, Alex;SUÑÉ NEGRE, Josep M.~ 33:EP ~31:19382287.1 ~32:15/04/2019

2021/06888 ~ Complete ~54:METHODS FOR THE MANUFACTURE OF RECOMBINANT VIRAL VECTORS ~71:ESTEVE PHARMACEUTICALS, S.A., Passeig de la Zona Franca, 109, 4ª Planta, Spain;UNIVERSITAT AUTÒNOMA DE BARCELONA, Edifíci A, Campus de la UAB s/n, Spain ~72:

BOSCH-TUBERT, Maria-Fatima;CERVERA-GRACIA, Laura;GARCIA-MARTINEZ, Miguel;GODIA-CASABLANCAS, Francesc;GUTIERREZ-GRANADOS, Sonia;LEON-MADRENAS, Xavier;MOLAS-LAPLANA, Maria~ 33:EP ~31:19382220.2 ~32:28/03/2019

2021/06892 ~ Complete ~54:METHODS AND APPARATUSES FOR CONNECTION ESTABLISHMENT ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83 STOCKHOLM, SWEDEN, Sweden ~72: GAN, Juying~ 33:CN ~31:PCT/CN2019/075412 ~32:18/02/2019

2021/06895 ~ Complete ~54:ELECTRIC CONTACT ELEMENT FOR HIGH OPERATING VOLTAGES ~71:ERNI INTERNATIONAL AG, Zürichstrasse 72, CH-8306, Switzerland ~72: BURGER, Michael~ 33:DE ~31:10 2019 115 243.7 ~32:05/06/2019

2021/06910 ~ Complete ~54:ELECTRONIC DEVICE COMPRISING WIRING MEMBER FIXING STRUCTURE ~71:SAMSUNG ELECTRONICS CO., LTD., 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea ~72: HYOSUNG LA;JONGCHUL CHOI;SEUNGCHUL BAEK;SUMAN LEE~ 33:KR ~31:10-2019-0018848 ~32:18/02/2019

2021/06912 ~ Complete ~54:USE OF NICOTINAMIDE RIBOSIDE, NICOTINIC ACID RIBOSIDE, REDUCED NICOTINYL RIBOSIDE COMPOUNDS, AND NICOTINYL RIBOSIDE COMPOUND DERIVATIVES IN FORMULATIONS ~71:CHROMADEX INC., 10005 Muirlands Blvd., Suite G, Irvine, California, 92618, United States of America ~72: AMANDA STORJOHANN;ARON ERICKSON;MATTHEW ROBERTS;PHILIP REDPATH~ 33:US ~31:62/808,802 ~32:21/02/2019

2021/06914 ~ Complete ~54:PROCESS FOR MAKING STABLE BACTERIAL EXTRACTS AND THEIR USE AS PHARMACEUTICALS ~71:OM PHARMA SA, Rue du Bois-du-Lan 22, 1217, Meyrin, Switzerland ~72: CHRISTIAN PASQUALI;JACQUES BAUER~ 33:EP ~31:19162912.0 ~32:14/03/2019

2021/06917 ~ Complete ~54:IMMOBILIZATION IN FLOW CELLS ~71:ILLUMINA, INC., 5200 Illumina Way, United States of America ~72: FISHER, Jeffrey S.;KHURANA, Tarun Kumar;LESSARD-VIGER, Mathieu;WANG, Clifford Lee;WU, Yir-Shyuan~ 33:US ~31:62/946,717 ~32:11/12/2019

2021/06920 ~ Complete ~54:ENCAPSULATED PRO-PERFUME COMPOUNDS ~71:Firmenich SA, 7, Rue de la Bergère, SATIGNY 1242, SWITZERLAND, Switzerland ~72: RASSAT, Estelle;STRUILLOU, Arnaud~ 33:EP ~31:19163967.3 ~32:20/03/2019

2021/06928 ~ Complete ~54:PACKET FOR CIGARETTE INDUSTRY PRODUCTS, AND METHOD FOR PRODUCING SAME ~71:Focke & amp; Co. (GmbH & amp; Co. KG), Siemensstraβe 10, VERDEN 27283, GERMANY, Germany ~72: KÖSTER, Johann;SCHNAKENBERG, Jan~ 33:DE ~31:10 2019 106 620.4 ~32:15/03/2019

2021/06933 ~ Complete ~54:APPARATUS FOR AEROSOL GENERATING DEVICE ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, GREATER LONDON, UNITED KINGDOM, United Kingdom ~72: BEIDELMAN, Keith George;BLANDINO, Thomas Paul~ 33:US ~31:62/816,276 ~32:11/03/2019;33:US ~31:62/816,277 ~32:11/03/2019;33:US ~31:62/816,286 ~32:11/03/2019

2021/06936 ~ Complete ~54:AEROSOL GENERATING DEVICE ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, GREATER LONDON, UNITED KINGDOM, United Kingdom ~72: BLANDINO, Thomas Paul;SAYED, Ashley John;WARREN, Luke James~ 33:US ~31:62/816,340 ~32:11/03/2019

2021/06938 ~ Complete ~54:ENCAPSULATED COMPOSITION ~71:Givaudan SA, Chemin de la Parfumerie 5, VERNIER 1214, SWITZERLAND, Switzerland ~72: DENIGOT, Marion~ 33:GB ~31:1904918.8 ~32:08/04/2019

2021/06929 ~ Complete ~54:DISCONNECTOR DEVICE WITH PASSIVE RADIO DEVICE, GRID PROTECTION SYSTEM HAVING THE DISCONNECTOR DEVICE, AND METHOD FOR INDICATING A STATE OF THE DISCONNECTOR DEVICE ~71:ABB Power Grids Switzerland AG, Bruggerstrasse 72, BADEN 5400, SWITZERLAND, Switzerland ~72: BERTOLI, Stefano;FACH, Alexander;KORNMANN, Xavier;MADONNA, Gian-Luigi;MARET, Yannick;NEESER, Daniel;SCHICK-PAULI, Martin;SOTIROPOULOS, Ektor~

2021/06858 ~ Complete ~54:AUTOMATIC PAGE TURNING PIANO SHEET STAND ~71:Qingdao Agricultural University, No. 700, Changcheng Road, Chengyang District, Qingdao City, Shandong Province, 266109, People's Republic of China ~72: YAN, Biao~

2021/06904 ~ Complete ~54:METHOD OF MAKING LIPID-ENCAPSULATED RNA NANOPARTICLES ~71:ARCTURUS THERAPEUTICS, INC., 10628 Science Center Drive, Suite 250, San Diego, California, 92121, United States of America ~72: JOSEPH E PAYNE;PADMANABH CHIVUKULA;PRIYA KARMALI;YANJIE BAO~ 33:US ~31:62/820,496 ~32:19/03/2019

2021/06918 ~ Complete ~54:TIME-BASED CLUSTER IMAGING OF AMPLIFIED CONTIGUITY PRESERVED LIBRARY FRAGMENTS OF GENOMIC DNA ~71:ILLUMINA CAMBRIDGE LIMITED, 19 Granta Park, Great Abington, United Kingdom ~72: MORRELL, Natalie;SLATTER, Andrew;THOMSON, Vicki~ 33:US ~31:62/942,563 ~32:02/12/2019

2021/07010 ~ Complete ~54:ANTIFATIGUE HAW POLYPHENOL TABLET AND METHOD FOR PREPARING SAME ~71:HEBEI NORMAL UNIVERSITY OF SCIENCE AND TECHNOLOGY, No. 360, West Section of Hebei Street, Haigang District, Qinhuangdao, People's Republic of China ~72: CHANG, Xuedong;FU, Mengfan;LIU, Suwen;SHI, Donglin;ZHANG, Dong;ZHAO, Xiyan~

2021/06939 ~ Complete ~54:MONITORING SYSTEM FOR REMOTELY MONITORING A STATE OF POLE-MOUNTED EQUIPMENT IN A POWER DISTRIBUTION OR TRANSMISSION GRID, GRID EQUIPMENT HAVING THE MONITORING SYSTEM, AND CORRESPONDING METHOD ~71:ABB Power Grids Switzerland AG, Bruggerstrasse 72, BADEN 5400, SWITZERLAND, Switzerland ~72: BERTOLI, Stefano;FACH, Alexander;KORNMANN, Xavier;MADONNA, Gian-Luigi;MARET, Yannick;NEESER, Daniel;SCHICK-PAULI, Martin;SOMMER, Philipp;SOTIROPOULOS, Ektor~

2021/06828 ~ Complete ~54:BREEDING TECHNIQUE FOR FOUR GENERATIONS A YEAR OF NORTHERN SPRING SOYBEAN IN NORTHEAST ALPINE REGION ~71:Hulunbuir Institute of Agriculture and Animal Husbandry, Nongyan East Alley, Guoyuan Road, North Street, Banling, Hexi, Zhalantun, Inner Mongolia Autonomous Region, People's Republic of China;Institute of Crop Science, Chinese Academy of Agricultural Sciences, 12 Zhongguancun South Street, Haidian District, Beijing, People's Republic of China ~72: Bi Xiaowei;Bi Xiuli;Chai Shen;Gao Huawei;Guo Bingfu;Guo Rongqi;Hong Huilong;Hu Xingguo;Li Li;Qiu Lijuan;Shao Yubin;Sun Bincheng;Sun Rujian;Wang Jingshun;Yu Ping;Zhang Qi;Zhang Xiaoli~

2021/06832 ~ Complete ~54:PREPARATION METHOD OF NOVEL GOAT SPERM AGONIST IN VITRO ~71:Qingdao Agricultural University, No.700 Changcheng Road, Chengyang, Qingdao City, Shandong Province, People's Republic of China ~72: Dong Huansheng;Wang Baiyang;Zhang Yanbin~

2021/06839 ~ Complete ~54:SPECIAL ENZYME FOR GALACTOOLIGOSACCHARIDE PRODUCTION AS WELL AS PREPARATION AND APPLICATION THEREOF ~71:Tianjin University of Science and Technology, No. 9, 13th Street, Tianjin Economic-Technological Development Area (TEDA), Binhai New Area, Tianjin, 300457, People's Republic of China ~72: NIU, Dandan;TIAN, Kangming;WANG, Zhengxiang~ 33:CN ~31:202011051056.1 ~32:29/09/2020

2021/06848 ~ Complete ~54:2'-SUBSTITUTED-N6-SUBSTITUTED PURINE NUCLEOTIDES FOR RNA VIRUS TREATMENT ~71:ATEA PHARMACEUTICALS, INC., 125 Summer Street, Boston, Massachusetts, 02110, United States of America ~72: ADEL MOUSSA;JEAN-PIERRE SOMMADOSSI~ 33:US ~31:62/384,664 ~32:07/09/2016

2021/06854 ~ Complete ~54:REGIONALIZED CLIMATE MODELS USING PHYSICS-INFORMED NEURAL NETWORKS ~71:International Business Machines Corporation, New Orchard Road, ARMONK 10504, NY, USA, United States of America ~72: JUNIOR, Alberto Costa Nogueira;VOS, Etienne Eben;WATSON, Campbell D.;WELDEMARIAM, Komminist;ZADROZNY, Bianca~ 33:US ~31:17/302,077 ~32:23/04/2021

2021/06862 ~ Complete ~54:METHOD FOR QUICKLY DETERMINING FIBER COMPONENTS IN FOOD OR FEED IN BATCHES ~71:Shandong Agricultural University, No. 61, Daizong street, Tai'an City, Shandong Province, People's Republic of China ~72: Zhang Chongyu;Zhang Guiguo~

2021/06907 ~ Complete ~54:ELECTRIC-RESISTANCE-WELDED STEEL PIPE OR TUBE FOR HOLLOW STABILIZER AND METHOD OF MANUFACTURING SAME ~71:JFE STEEL CORPORATION, 2-3, Uchisaiwai-cho 2-chome, Chiyoda-ku, Tokyo, 1000011, Japan ~72: MASATOSHI ARATANI;RYOJI MATSUI;TOMONORI KONDOU~ 33:JP ~31:2019-048652 ~32:15/03/2019

2021/06925 ~ Complete ~54:FRAGRANCED COMPOSITION ~71:Givaudan SA, Chemin de la Parfumerie 5, VERNIER 1214, SWITZERLAND, Switzerland ~72: AUSSANT, Emmanuel;CHARMOILLE, Claude;GHOSH, Pabitra~ 33:GB ~31:1904695.2 ~32:03/04/2019

2021/06897 ~ Complete ~54:AUTOMATED HATCH SYSTEM FOR HOPPER RAILCARS ~71:Ecofab Covers International Inc., Whitepark House, White Park Road, Barbados ~72: HOMM, Uwe;LOW, Trevor~ 33:US ~31:62/807,722 ~32:19/02/2019

2021/06833 ~ Complete ~54:GERMINATED MILLET FOOD AND PREPARATION METHOD THEREOF ~71:Hebei University of Science and Technology, No.70 Yuhua East Road, Shijiazhuang City, Hebei Province, People's Republic of China ~72: Chen Qijia;Hao Jianxiong;Hu Gaoshuang;Rao Huan;Zhao Dandan~

2021/06837 ~ Complete ~54:MODIFIED GAUSSIAN MIXTURE MODEL METHOD FOR PATTERN RECOGNITION AND STATISTICAL MODELING ~71:Hetaida Technology Co., Ltd, Building 2, Songhu Wisdom Valley Scientific Research Center, No.6 Minfu Road, Liaobu Town, Dongguan City, Guangdong Province, People's Republic of China;Hunan Institute of Science and Technology, No.439 Xueyuan Road, Yueyang City, Hunan Province, People's Republic of China ~72: Cao Zhiqi;Chen Zhenguang;Sun Shuping;Tong Yaonan;Yang Haitao~

2021/06849 ~ Complete ~54:PROCESS FOR MAKING HEPATITIS B CORE PROTEIN MODULATORS ~71:ASSEMBLY BIOSCIENCES, INC., 11711 N. Meridian Street, Suite 310, Carmel, Indiana, 46032, United States of America ~72: LEE D ARNOLD;LEPING LI;SREENIVASA REDDY~ 33:US ~31:62/470,560 ~32:13/03/2017

2021/06857 ~ Complete ~54:METHOD AND SYSTEM FOR PREDICTING SURFACE WATER AND GROUNDWATER IN HYDROLOGICAL FORECASTING ~71:China Institute of Water Resources and Hydropower Research, A-1 Fuxing Road, Haidian District, Beijing, People's Republic of China ~72: He Xin~

2021/06871 ~ Complete ~54:AEROSOL DELIVERY DEVICE COMPRISING ARTIFICIAL INTELLIGENCE ~71:RAI STRATEGIC HOLDINGS, INC., 401 North Main Street, United States of America ~72: SUR, Rajesh~ 33:US ~31:16/394,737 ~32:25/04/2019

2021/06872 ~ Complete ~54:PROCESS FOR THE DEPOLYMERIZATION OF POLYETHYLENE TEREPHTHALATE (PET) ~71:9449710 CANADA INC., 480 Fernand-Poitras Street, Terrebonne, Canada ~72: ESSADDAM, Adel;ESSADDAM, Fares~ 33:US ~31:62/821,270 ~32:20/03/2019

2021/06874 ~ Complete ~54:NONHORMONAL UNISEX CONTRACEPTIVES ~71:THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, ; 1111 Franklin Street, 12th Floor Oakland, United States of America ~72: BERTHOLET, Ambre M.;KHASIN, Liliya Gabelev;KIRICHOK, Yuriy;LISHKO, Polina V.;SKINNER, William;TABARSI, Emiliano~ 33:US ~31:62/808,861 ~32:22/02/2019

2021/06831 ~ Complete ~54:A KIND OF OINTMENT CONTAINING TEA POLYPHENOLS AND TEA SEED OIL FOR PREVENTING INFANTILE DIAPER RASH ~71:Hangzhou Yingshili Biotechnology Limited Company, No.96 Daguan Rd, Gongshu District, Hangzhou City, Zhejiang Province, 310015, People's Republic of China ~72: TU YOUYING;XIA CHEN;ZHAO HANGYE~

2021/06841 ~ Complete ~54:BURIED ORGANIC RIGIDITY-REINFORCED TOUGHENED ALLOY WINDING STRUCTURE WALL PIPE AND PREPARATION METHOD THEREOF ~71:Anhui jielante New Material Co., Ltd, No. 19, Guangping Road, Guangde Economic Development Zone, Anhui Province, People's Republic of China ~72: Junfeng Liu;Lili Mei;Weiheng Liu;Wenjun Zhou;Xiangrui Hou;Xinyan Teng;Xuedong Pan~ 33:CN ~31:202011181576.4 ~32:29/10/2020

2021/06890 ~ Complete ~54:ROCK BOLT HAVING SENSOR FOR MEASURING MECHANICAL TENSION ~71:MONTANUNIVERSITÄT LEOBEN, FRANZ-JOSEF-STR. 18, 8700 LEOBEN, AUSTRIA, Austria ~72: FEIEL, Susanne;GRIESSER, Thomas;KERN, Wolfgang;MOSER, Peter~ 33:AT ~31:A60039/2019 ~32:19/02/2019

2021/07011 ~ Complete ~54:PLANT ADDITIVE FOR IMPROVING PORK QUALITY AND APPLICATION THEREOF ~71:INSTITUTE OF ANIMAL HUSBANDRY, HEILONGJIANG ACADEMY OF AGRICULTURAL SCIENCES, NO. 368, XUEFU ROAD, NANGANG DISTRICT, People's Republic of China ~72: DI LIU;GUIWEI LI;HAIFENG ZHANG;HAIJUAN HE;HESHU CHEN;JIQIAO XIA;LIANG WANG;MEIYU QI;MING TIAN;SAIHUI WU;WENTAO WANG;XIAOLONG YU;XINMIAO HE;YANZHONG FENG;ZIGUANG LIU~

2021/06945 ~ Complete ~54:ANTI-TREM2 ANTIBODIES AND METHODS OF USE THEREOF ~71:Denali Therapeutics Inc., 161 Oyster Point Blvd., SOUTH SAN FRANCISCO 94080, CA, USA, United States of America ~72: DENNIS, Mark S.;DUNCAN, Sherie;LISAINGO, Kathleen;MONROE, Kathryn M.;PARK, Joshua I.;PROROK, Rachel;SHI, Ju;SRIVASTAVA, Ankita;VAN LENGERICH, Bettina;WALSH, Riley~ 33:US ~31:62/808,141 ~32:20/02/2019

2021/06820 ~ Provisional ~54:FIRE RETARDANT ~71:KOEKEMOER, Louis Christiaan, 352 Larsens Road, South Africa ~72: KOEKEMOER, Louis Christiaan~

2021/06934 ~ Complete ~54:APPARATUS FOR AEROSOL GENERATING DEVICE ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, GREATER LONDON, UNITED KINGDOM, United Kingdom ~72: BEIDELMAN, Keith George~ 33:US ~31:62/816,287 ~32:11/03/2019

2021/06940 ~ Complete ~54:FLAT-BASED FOUNDATION ~71:Max Bögl Wind AG, Max-Bögl-Straße 1, SENGENTHAL 92369, GERMANY, Germany ~72: BETZ, Thorsten~ 33:DE ~31:10 2019 106 972.6 ~32:19/03/2019

2021/06946 ~ Complete ~54:CASING FOR APPARATUS, APPARATUS AND METHOD ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: FUNG, Chi Wai;MCGRATH, Conor John;TAANK, Jai-Ram;WEI, Guangyan;WU, Zexin~

2021/06900 ~ Complete ~54:DUAL MODE IMPELLER ASSEMBLY AND A VENTILATION UNIT ~71:PEAKVENT AS, Noreveien 26, 0379, OSLO, Norway ~72: MORTEN GULLIKSEN~ 33:NO ~31:20190246 ~32:22/02/2019;33:NO ~31:20190522 ~32:17/04/2019

2021/06902 ~ Complete ~54:MACROCYCLIC AZOLOPYRIDINE DERIVATIVES AS EED AND PRC2 MODULATORS ~71:FULCRUM THERAPEUTICS, INC., 26 Landsdowne Street, Cambridge, Massachusetts, 02139, United States of America ~72: FENG ZHOU;IVAN VIKTOROVICH EFREMOV;LORIN A. III THOMPSON;OWEN BRENDAN WALLACE;PETER RAHL;QINGYI LI;SHAWN DONALD JOHNSTONE;STEVEN KAZMIRSKI~ 33:US ~31:62/819,064 ~32:15/03/2019

2021/06913 ~ Complete ~54:AIR FILTER DEVICE ~71:PEAKVENT AS, Noreveien 26, 0379, OSLO, Norway ~72: MORTEN GULLIKSEN~ 33:NO ~31:20190246 ~32:22/02/2019;33:NO ~31:20190522 ~32:17/04/2019;33:NO ~31:20190732 ~32:14/06/2019;33:NO ~31:20191358 ~32:15/11/2019

2021/06924 ~ Complete ~54:SYSTEMS AND METHODS FOR COOLING POWER ELECTRONICS IN AN ENERGY STORAGE SYSTEM ~71:General Electric Company, 1 River Road, SCHENECTADY 12345, NY, USA, United States of America ~72: HOFER, Douglas C.~

2021/06941 ~ Complete ~54:METHOD OF PRODUCING BACTERIALLY DERIVED INDOLE-3 -PROPIONIC ACID AND COMPOSITIONS COMPRISING SAME ~71:The Procter & Gamble Company, One Procter & Gamble Plaza, CINCINNATI 45202, OH, USA, United States of America ~72: BREWSTER, Chelsay Lynn;KOZAK, Kimberly Conner;LI, Lijuan;STAMPER, Jason Allen;VENKATARAMAN, Arvind~ 33:US ~31:62/827,998 ~32:02/04/2019

2021/06942 ~ Complete ~54:AN ENCODER, A DECODER AND CORRESPONDING METHODS OF INTRA 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: CHEN, Jianle;ESENLIK, Semih;GAO, Han;KOTRA, Anand Meher;WANG, Biao~ 33:US ~31:62/839,670 ~32:27/04/2019

2021/06944 ~ Complete ~54:EARLY TERMINATION FOR OPTICAL FLOW REFINEMENT ~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;ESENLIK, Semih;KOTECHA, Sagar;SETHURAMAN, Sriram~ 33:IN ~31:201931007114 ~32:22/02/2019

2021/06947 ~ Complete ~54:BIOCONJUGATES OF E. COLI O-ANTIGEN POLYSACCHARIDES, METHODS OF PRODUCTION THEREOF, AND METHODS OF USE THEREOF ~71:GlaxoSmithKline Biologicals SA, Rue de I'Institut 89, RIXENSART 1330, BELGIUM, Belgium;Janssen Pharmaceuticals, Inc., 1125 Trenton-Harbourton Rd., 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 ~31:62/819,746 ~32:18/03/2019

2021/06842 ~ Complete ~54:BURIED ORGANIC RIGIDITY-REINFORCED TOUGHENED ALLOY PIPE AND PREPARATION METHOD THEREOF ~71:Anhui jielante New Material Co., Ltd, No. 19, Guangping Road, Guangde Economic Development Zone, Anhui Province, People's Republic of China ~72: Junfeng Liu;Lili Mei;Weiheng Liu;Xiangrui Hou;Xinyan Teng;Xuedong Pan;Yin Fu~ 33:CN ~31:202011172931.1 ~32:28/10/2020

2021/06845 ~ Complete ~54:TISSUE CULTIVATE AND RAPID PROPAGATION METHOD OF CALADUIM BICOLOR APPLICABLE FOR FACTORY PRODUCTION ~71:Zhanjiang Sugarcane Research Center, Guangzhou Sugarcane Research Institute, No. 99, Suizhan Road, Xinqiao, Suixi County, Zhanjiang City, Guangdong Province, 524000, People's Republic of China ~72: GUAN, Jinyan;HUANG, Haiying;LUO, Jianpiao;LUO, Qingwen;TAN, Jiana;WEN, Mingfu;XU, Yuchan~ 33:CN ~31:202011502109.7 ~32:17/12/2020

2021/06855 ~ Complete ~54:NANO-CUPROUS OXIDE COMPOSITE CERAMSITE FOR WATER TREATMENT AND PREPARATION METHOD AND APPLICATION THEREOF ~71:Zaozhuang University, No. 1 Bei'an Road, Centre District, Zaozhuang City, Shandong Province, 277160, People's Republic of China ~72: LI, Tianpeng;SUN, Tingting~

2021/06863 ~ Complete ~54:PLANTS WITH INCREASED PHOTORESPIRATION EFFICIENCY ~71:THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY OF AGRICULTURE, 1400 Independence Ave. S.W., United States of America ~72: ORT, Donald R.;SOUTH, Paul, F.;WALKER, Berkley~ 33:US ~31:62/467,993 ~32:07/03/2017;33:US ~31:15/913,395 ~32:06/03/2018

2021/06869 ~ Complete ~54:AEROSOL DELIVERY DEVICE PROVIDING FLAVOR CONTROL ~71:RAI STRATEGIC HOLDINGS, INC., 401 North Main Street, United States of America ~72: HEJAZI, Vahid~ 33:US ~31:16/353,556 ~32:14/03/2019

2021/06823 ~ Provisional ~54:BODY HEATING EQUIPMENT ~71:BUDRICKS, Francois Johannes, 310 Aristia Drive, MOSSELBAY 6506, Western Cape Province, SOUTH AFRICA, South Africa ~72: BUDRICKS, Francois Johannes~

2021/06824 ~ Complete ~54:METHOD FOR THE PURIFICATION OF ACRYLAMIDO-2-METHYL-2-PROPANESULPHONIC ACID ~71:SPCM SA, Zone d'Activité Commerciale de Milieux, France ~72: DOUDIN, RaphaëI;FAVERO, Cédrick;KIEFFER, Johann;LEGRAS, Benoît~ 33:FR ~31:2009493 ~32:18/09/2020

2021/06834 ~ Complete ~54:LUGGAGE TROLLEY FOR TOURIST HOTEL ~71:Central South University of Forestry and Technology, Central South University of forestry and technology, No. 498, Shaoshan South Road, Changsha, Hunan, People's Republic of China ~72: Yang Mei~

2021/06850 ~ Complete ~54:BENZAZEPINE COMPOUNDS, CONJUGATES, AND USES THEREOF ~71:SILVERBACK THERAPEUTICS, INC., 500 Fairview Avenue North, Suite 600, Seattle, Washington, 98109, United States of America ~72: CRAIG ALAN COBURN;PETER ROBERT BAUM;SEAN WESLEY SMITH~ 33:US ~31:62/471,886 ~32:15/03/2017;33:US ~31:62/573,630 ~32:17/10/2017;33:US ~31:62/622,780 ~32:26/01/2018

2021/06851 ~ Complete ~54:SHP2 PHOSPHATASE INHIBITORS AND METHODS OF USE THEREOF ~71:D. E. SHAW RESEARCH, LLC, 120 West 45th Street, 39th Floor, New York, New York, 10036, United States of America;RELAY THERAPEUTICS, INC., 399 Binney Street, Second Floor, Cambridge, Massachusetts, 02139, United States of America ~72: ALEXANDER M TAYLOR;ANDRÉ LESCARBEAU;ELIZABETH H KELLEY;ERIC THERRIEN;FABRIZIO GIORDANETTO;HAKAN GUNAYDIN;KELLEY C SHORTSLEEVES;MARK ANDREW MURCKO;THOMAS H MCLEAN;W. PATRICK WALTERS~ 33:US ~31:62/646,083 ~32:21/03/2018;33:US ~31:62/646,099 ~32:21/03/2018;33:US ~31:62/649,834 ~32:29/03/2018;33:US ~31:62/661,902 ~32:24/04/2018;33:US ~31:62/737,819 ~32:27/09/2018

2021/06935 ~ Complete ~54:AEROSOL GENERATION ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, GREATER LONDON, UNITED KINGDOM, United Kingdom ~72: PATON, David~ 33:GB ~31:1903260.6 ~32:11/03/2019;33:GB ~31:1903263.0 ~32:11/03/2019

2021/06937 ~ Complete ~54:METHOD FOR PREPARING STABLE PEPTIDE FORMULATIONS ~71:Eli Lilly and Company, Lilly Corporate Center, INDIANAPOLIS 46206-6288, IN, USA, United States of America ~72: BROWN, Gregory Nelson;VAN SCOIK, Kurt Gard~ 33:US ~31:62/839,246 ~32:26/04/2019

2021/06943 ~ Complete ~54:SYSTEM FOR TRUSTED DISTANCE MEASUREMENT ~71:Koninklijke Philips N.V., High Tech Campus 52, EINDHOVEN 5656 AG, THE NETHERLANDS, Netherlands ~72: BERNSEN, Johannes Arnoldus Cornelis;VAN DE LAAR, Franciscus Antonius Maria~ 33:EP ~31:19158090.1 ~32:19/02/2019

2021/06948 ~ Complete ~54:POTASSIUM-BINDING AGENTS FOR USE IN HEMODIALYSIS PATIENTS ~71:AstraZeneca AB, SÖDERTÄLJE SE-151 85, SWEDEN, Sweden ~72: GUZMAN, Nicolas;JONASSON, Jenny~ 33:US ~31:62/817,817 ~32:13/03/2019

2021/06932 ~ Complete ~54:SYSTEM FOR TRUSTED DISTANCE MEASUREMENT ~71:Koninklijke Philips N.V., High Tech Campus 52, EINDHOVEN 5656 AG, THE NETHERLANDS, Netherlands ~72: BERNSEN, Johannes Arnoldus Cornelis~ 33:EP ~31:19158080.2 ~32:19/02/2019

2021/06829 ~ Complete ~54:BREEDING METHOD OF MULTI-RESISTANCE GENE POLYMERIZED SOYBEAN AND APPLICATION THEREOF ~71:Institute of Crop Science, Chinese Academy of Agricultural Sciences, 12 Zhongguancun South Street, Haidian District, Beijing, People's Republic of China ~72: Liu Zhangxiong;Qiu Lijuan;Ye Junhua~

2021/06840 ~ Complete ~54:HIGH-MODULUS IMPACT-RESISTANT HDPE DOUBLE-WALL CORRUGATED PIPE AND PREPARATION METHOD THEREOF ~71:Anhui jielante New Material Co., Ltd, No. 19, Guangping Road, Guangde Economic Development Zone, Anhui Province, People's Republic of China ~72: Hongwei Li;Junfeng Liu;Lili Mei;Weiheng Liu;Xiangrui Hou;Xinyan Teng;Yin Fu~ 33:CN ~31:202011172939.8 ~32:28/10/2020

2021/06898 ~ Complete ~54:METHODS OF PREPARING FLUORINATED ALCOHOLS ~71:MEXICHEM FLUOR S.A. DE C.V., Eje 106, (sin número), Zona Industrial, Mexico ~72: GRUNDY, David;SAXENA, Ira;SHARRATT, Andrew~ 33:GB ~31:1903909.8 ~32:21/03/2019

2021/06899 ~ Complete ~54:STEALTH VEHICLE WITH RAPID DEPLOYMENT INTEGRATED WEAPON SYSTEM ~71:JOHN COCKERILL DEFENSE SA, Rue Alfred Deponthière, 44, 4431, Loncin, Belgium ~72: FABIAN CORONA;PHILIPPE BOLEN~ 33:EP ~31:19158468.9 ~32:21/02/2019

2021/06901 ~ Complete ~54:DATA COMMUNICATION IN THE MICROWAVE RANGE USING ELECTRICALLY CONDUCTIVE ELEMENTS IN A CONSTRUCTION MACHINE ~71:FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V., Hansastrasse 27 C, 80686, München, Germany;HERRENKNECHT AG, Herrenknecht AG - Schlehenweg 2, 77963, Schwanau, Germany ~72: ALEXANDER FREY;FELIX WEBER;FREDERIC SENG;MATHIS SCHMIEDER;WILHELM KEUSGEN~ 33:EP ~31:19164653.8 ~32:22/03/2019

2021/06903 ~ Complete ~54:MODULE-BASED ENERGY SYSTEMS HAVING CONVERTER-SOURCE MODULES AND METHODS RELATED THERETO ~71:TAE TECHNOLOGIES, INC., 19631 Pauling, Foothill Ranch, California, 92610, United States of America ~72: MIKHAIL SLEPCHENKOV;ROOZBEH NADERI~ 33:US ~31:62/826,158 ~32:29/03/2019;33:US ~31:62/826,238 ~32:29/03/2019;33:US ~31:62/906,007 ~32:25/09/2019

2021/06906 ~ Complete ~54:MODULE-BASED ENERGY SYSTEMS CAPABLE OF CASCADED AND INTERCONNECTED CONFIGURATIONS, AND METHODS RELATED THERETO ~71:TAE TECHNOLOGIES,

INC., 19631 Pauling, Foothill Ranch, California, 92610, United States of America ~72: MIKHAIL SLEPCHENKOV;ROOZBEH NADERI~ 33:US ~31:62/826,158 ~32:29/03/2019;33:US ~31:62/826,238 ~32:29/03/2019;33:US ~31:62/906,007 ~32:25/09/2019

2021/06915 ~ Complete ~54:COMPOUNDS WITH ANTI-TUMOR ACTIVITY AGAINST CANCER CELLS BEARING HER2 EXON 21 INSERTIONS ~71:BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM, 210 West 7th Street, United States of America ~72: HEYMACH, John V.;ROBICHAUX, Jacquiyne~ 33:US ~31:62/826,758 ~32:29/03/2019

2021/06919 ~ Complete ~54:GLOVE AND ACCESSORY FOR USE WITH A GLOVE ~71:GLOVE IP (PTY) LTD, 4 East Park, Central Park on Park Lane, South Africa ~72: QUINLAN, Stephen John~ 33:ZA ~31:2019/01014 ~32:18/02/2019

2021/06923 ~ Complete ~54:SODIUM-HYDROGEN EXCHANGER 3 INHIBITOR COMPOUNDS ~71:Eli Lilly and Company, Lilly Corporate Center, INDIANAPOLIS 46206-6288, IN, USA, United States of America ~72: GAVARDINAS, Kostas;JADHAV, Prabhakar;WANG, Xiaojun;WETTERAU, John Rowley~ 33:US ~31:62/848,652 ~32:16/05/2019

2021/06825 ~ Complete ~54:THREE-DIMENSIONAL VEGETABLE CULTIVATION DEVICE ~71:SHANDONG ACADEMY OF AGRICULTURAL SCIENCES, 202 Gongye North Road, Licheng District, People's Republic of China ~72: BO, Luji;FU, Longyun;JING, Yongping;LI, Yan;WANG, Yanqin;ZHANG, Yingpeng~

2021/06827 ~ Complete ~54:REAGENTS FOR TREATMENT OF OCULOPHARYNGEAL MUSCULAR DYSTROPHY (OPMD) AND USE THEREOF ~71:BENITEC IP HOLDINGS INC., Corporation Trust Centre, 1209 Orange Street, City of Wilmington, County of New Castle, United States of America ~72: STRINGS-UFOMBAH, Vanessa;SUHY, David~ 33:US ~31:62/434,312 ~32:14/12/2016

2021/06927 ~ Complete ~54:TOPICAL COMPOSITIONS AND METHODS FOR TREATING ACNE VULGARIS ~71:Bausch Health Ireland Limited, 3013 Lake Drive, CityWest Business Campus, 24, DUBLIN, IRELAND, Ireland ~72: BHATT, Varsha D.;PILLAI, Radhakrishnan~ 33:US ~31:62/819,880 ~32:18/03/2019

2021/06886 ~ Complete ~54:COMPOSITIONS AND METHODS FOR THE TREATMENT OF KRAS ASSOCIATED DISEASES OR DISORDERS ~71:DICERNA PHARMACEUTICALS, INC, 75 Hayden Avenue, Lexington, United States of America ~72: GANESH, Shanthi~ 33:US ~31:62/826,121 ~32:29/03/2019

2021/06887 ~ Complete ~54:COMPOSITIONS AND METHODS COMPRISING A TTR GUIDE RNA AND A POLYNUCLEOTIDE ENCODING AN RNA-GUIDED DNA BINDING AGENT ~71:INTELLIA THERAPEUTICS, INC., 40 Erie Street, Ste. 130, United States of America ~72: ALEXANDER, Seth, C.;CHANG, Yong;KANJOLIA, Arti, Mahendra, Prakash;LESCARBEAU, Reynald, Michael;ODATE, Shobu;SEITZER, Jessica, Lynn;STRAPPS, Walter;WOOD, Kristy, M.~ 33:US ~31:62/825,637 ~32:28/03/2019

2021/06891 ~ Complete ~54:PESTICIDAL MIXTURES COMPRISING A PYRAZOLE COMPOUND ~71:BASF SE, CARL BOSCH STRASSE 38, 67056 LUDWIGSHAFEN AM RHEIN, GERMANY, Germany ~72: GEWEHR, Markus;REINHARD, Robert;SOERGEL, Sebastian~ 33:EP ~31:19158312.9 ~32:20/02/2019

- APPLIED ON 2021/09/20 -

2021/06949 ~ Provisional ~54:HEARING AID ~71:DANIEL, Robert Rainey, 66B Third Ave, Inanda, South Africa ~72: DANIEL, Robert Rainey~

2021/06954 ~ Complete ~54:A HIGH-EFFICIENCY DE-JOINT DRILLING DEVICE FOR PROCESSING FLUTE ~71:West Anhui University, Hexi, Lu 'an City, Anhui, 237000, People's Republic of China ~72: Mo Junmei;Shen Bingyi;Wang Jin;Zhang Chengyong;Zhou Fengwu~ 33:CN ~31:202110975541.6 ~32:24/08/2021

2021/06957 ~ Complete ~54:FARMING METHOD OF MULTIPLE CROPPING IN A YEAR ON ARID LAND IN LOW-LATITUDE AND HIGH-COLD MOUNTAINOUS AREAS ~71:Institute of grain crops, Yunnan Academy of Agricultural Sciences, No.2238 Beijing Road, Panlong District, Kunming City, Yunnan Province, People's Republic of China ~72: An Hua;Fu Zhaocong;Guan Junjiao;Ji Jiagao;Li Sheping;Li Xiaolin;Zhang Jianhua;Zhang Peng~

2021/06960 ~ Complete ~54:MULTI-POINT FERTILIZING AND SEEDING PLATE AND INTEGRATED FERTILIZING AND SEEDING MACHINE EQUIPPED WITH SAME ~71:Shandong Academy of Agricultural Sciences, No.202 Gongye North Road, Licheng District, Jinan City, Shandong Province, People's Republic of China ~72: Bo Luji;Huang Xianmin;Li Bing;Li Yan;Liu Zhaohui;Ma Ronghui;Wang Yanqin;Zhang Rongquan;Zhang Yingpeng~

2021/06964 ~ Complete ~54:PURIFICATION AND TREATMENT METHOD OF CHEMICAL LEACHING WASTEWATER GENERATED BY REMEDIATION OF HEAVY METAL CONTAMINATED SOIL ~71:Nanjing Agricultural University, No.1 Wei Gang, Xuanwu District, Nanjing City, Jiangsu Province, People's Republic of China ~72: Dong Changxun;Shi Weixi;Tang Yingmei;Wang Wanjing;Zheng Wei~

2021/06953 ~ Provisional ~54:CABLE ANCHOR TENSIONING ASSEMBLY ~71:INNOVATIVE MINING PRODUCTS (PTY) LTD, 109 Adcock Ingram Avenue, Aeroton, South Africa ~72: GREYVENSTEYN, James~

2021/06956 ~ Complete ~54:ASSEMBLED SUBMERGED WAVE-DISSIPATING BREAKWATER WITH FUNCTION OF ARTIFICIAL REEF ~71:OCEAN UNIVERSITY OF CHINA, No.238 Songling Road, Laoshan District, Qingdao, Shandong Province, People's Republic of China;TIANJIN RESEARCH INSTITUTE FOR WATER TRANSPORT ENGINEERING, M.O.T., No.2618, Xingang Erhao Road, Tanggu, Binhai New Area, Tianjin, People's Republic of China ~72: Chen Hanbao;Ge Longzai;Guan Ning;Hu Chuanqi;Liang Bingchen;Liu Mingyang;Luan Yingni;Tan Zhonghua;Yin Zegao;Zhang Huaqing~

2021/06981 ~ Complete ~54:CELLS, COMPOSITIONS AND METHODS FOR ENHANCING IMMUNE FUNCTION ~71:THE COUNCIL OF THE QUEENSLAND INSTITUTE OF MEDICAL RESEARCH, 300 Herston Rd, Herston, Australia ~72: BALD, Tobias;BRAUN, Matthias;SMYTH, Mark~ 33:AU ~31:2019900621 ~32:27/02/2019

2021/07004 ~ Complete ~54:MEDICAL CARE AND HEALTH INTELLIGENT EXECUTION SYSTEM BASED ON INTERNET OF THINGS AND INTERNET ~71:NINGBO SANHAN ALLOY MATERIAL CO., LTD., No. 333, Liantang Road, Binhai Cixi Economic Development Zone, Ningbo, People's Republic of China;QINGDAO UNIVERSITY OF TECHNOLOGY, No. 777, Jialingjiang Road, Economic and Technological Development Zone, Qingdao, People's Republic of China ~72: CAO, Huajun;CHEN, Shuai;CUI, Xin;GAO, Teng;HOU, Yali;JIA, Dongzhou;LI, Changhe;LI, Runze;LIU, Mingzheng;LU, Bingheng;LUO, Liang;MA, Wuxing;WU, Xifeng;YANG, Min;ZHANG, Yanbin~ 33:CN ~31:201911413320.9 ~32:31/12/2019

2021/06952 ~ Provisional ~54:CARTRIDGE UNIT FOR ENERGISING A WATER TURBINE ~71:Raymond William Hinks, 19 Adderley Street, Kensington B, South Africa ~72: Raymond William Hinks~ 33:ZA ~31:1 ~32:19/09/2021

2021/06984 ~ Complete ~54:TONER CARTRIDGE AND IMAGE FORMATION DEVICE ~71:CANON KABUSHIKI KAISHA, 30-2, Shimomaruko 3-chome, Ohta-ku, Japan ~72: ASANUMA, Naoya;ATSU, Yusuke;HAMADA, Takatoshi;KAWAMURA, Tomofumi;TANABE, Masato~ 33:JP ~31:2019-168214 ~32:17/09/2019;33:JP ~31:2020-093285 ~32:28/05/2020

2021/06987 ~ Complete ~54:METHOD AND SYSTEM OF CONSTRUCTING AN UNDERGROUND TUNNEL ~71:HYPERTUNNEL IP LIMITED, VIEWPOINT, BASING VIEW, BASINGSTOKE, HAMPSHIRE, RG21 4RG, UNITED KINGDOM, United Kingdom ~72: JORDAN, Stephen~ 33:GB ~31:1903979.1 ~32:22/03/2019

2021/06992 ~ Complete ~54:DIGITAL MODELING AND TRACKING OF AGRICULTURAL FIELDS FOR IMPLEMENTING AGRICULTURAL FIELD TRIALS ~71:The Climate Corporation, 201 Third Street, Suite 1100, SAN FRANCISCO 94103, CA, USA, United States of America ~72: BOGDAN, Christina;BULL, Jason Kendrick;CIZEK, Nicholas Charles;EHLMANN, Tonya;JACOBS, Morrison;LADONI, Moslem;MERRILL, Hunter;REICH, Timothy;RINKENBERGER, Brandon;ROBINSON, Aaron E.;RUFF, Thomas Gene;SAUDER, Doug;TRAPP, Allan;WILLIAMS, Daniel~ 33:US ~31:62/808,807 ~32:21/02/2019

2021/07014 ~ Complete ~54:HANDLING DEVICE INTENDED TO TRANSPORT AN INTERVENTION TOOL FOR AN ELECTROLYTIC CELL ~71:RIO TINTO ALCAN INTERNATIONAL LIMITED, 400-1190, avenue des Canadiens-de-Montréal, Montréal, QC H3B 0E3, Canada ~72: FRÉDÉRIC BRUN;STEEVE RENAUDIER~ 33:FR ~31:19/02640 ~32:14/03/2019

2021/06982 ~ Complete ~54:ASSEMBLY OF AN ALUMINIUM COMPONENT AND OF A PRESS HARDENED STEEL PART HAVING AN ALLOYED COATING COMPRISING SILICON, IRON, ZINC AND MAGNESIUM, THE BALANCE BEING ALUMINUM ~71:ARCELORMITTAL, 24-26, Boulevard d'Avranches, Luxembourg ~72: Astrid GREGOIRE;Laurence DOSDAT;Stéphane MOREL;Tiago MACHADO AMORIM~ 33:IB ~31:PCT/IB2019/052899 ~32:09/04/2019

2021/06991 ~ Complete ~54:AN ENCODER, A DECODER AND CORRESPONDING METHODS USING IBC DEDICATED BUFFER AND DEFAULT VALUE REFRESHING FOR LUMA AND CHROMA COMPONENT ~71:Huawei Technologies Co., Ltd., Huawei Administration Building, Bantian, Longgang District, SHENZHEN 518129, GUANGDONG, CHINA (P.R.C.), People's Republic of China ~72: CHEN, Jianle;ESENLIK, Semih;GAO, Han;KOTRA, Anand Meher;WANG, Biao~ 33:US ~31:62/849,119 ~32:16/05/2019;33:IB ~31:2019/065540 ~32:13/06/2019

2021/06997 ~ Complete ~54:INTERVENTION TOOL FOR USING AN ELECTROLYTIC CELL ~71:RIO TINTO ALCAN INTERNATIONAL LIMITED, 400-1190, avenue des Canadiens-de-Montréal, Montréal, QC H3B 0E3, Canada ~72: FRÉDÉRIC BRUN;STEEVE RENAUDIER~ 33:FR ~31:19/02639 ~32:14/03/2019

2021/07006 ~ Complete ~54:SYSTEM AND METHOD OF ADSORPTION AND MULTISTAGE SCREENING TYPE FOR PEANUT POD CLEANING AND IMPURITY REMOVAL ~71:HENAN UNIVERSITY OF SCIENCE AND TECHNOLOGY, No. 263, Kaiyuan Avenue Luoyang, People's Republic of China;QINGDAO UNIVERSITY OF TECHNOLOGY, No. 777, Jialingjiang Road, Economic and Technological Development Zone, Qingdao, People's Republic of China;RESEARCH INSTITUTE OF AGRICULTURAL MECHANIZATION, XINJIANG ACADEMY OF AGRICULTURAL SCIENCES, No. 403, Nanchang Road Urumqi, People's Republic of China ~72: HOU, Yali;LI, Changhe;LI, Xinping;LIU, Mingzheng;LIU, Xiangdong;WANG, Xiaoming;YANG, Huimin;ZHANG, Yanbin~ 33:CN ~31:202010286319.0 ~32:13/04/2020

2021/06976 ~ Complete ~54:METHOD FOR ENCODING AND METHOD FOR DECODING A LUT AND CORRESPONDING DEVICES ~71:DOLBY INTERNATIONAL AB, Apollo Building, 3E, Herikerbergweg 1-35, NL-1101, CN Amsterdam Zuidoost, Netherlands ~72: EMMANUEL JOLLY;PHILIPPE BORDES;PIERRE ANDRIVON~ 33:EP ~31:13305453.6 ~32:08/04/2013;33:EP ~31:13306010.3 ~32:15/07/2013;33:EP ~31:14305109.2 ~32:27/01/2014

2021/06998 ~ Complete ~54:QUBIT HARDWARE FOR ELECTRONS ON HELIUM ~71:DAVID REES, 2-13-23 Ishima-cho, Kita-ku, Okayama-shi, 7000016, Japan;JOHANNES POLLANEN, 315 West Madison Street, Lansing, Michigan, 48906, United States of America;NIYAZ BEYSENGULOV, 1685 Burrows Street, Apt 60, East, Lansing, Michigan, 48823, United States of America ~72: DAVID REES;JOHANNES POLLANEN;NIYAZ BEYSENGULOV~ 33:US ~31:62/825,466 ~32:28/03/2019;33:US ~31:16/818,508 ~32:13/03/2020

2021/06966 ~ Complete ~54:POTATO SLIMMING MEAL REPLACEMENT POWDER AND PREPARATION METHOD THEREOF ~71:Hebei University of Engineering, 19 Taiji Road, Economic and Technological Development District, Handan City, Hebei Province, People's Republic of China ~72: Li Tiemei;Lian Haiping;Lian Zhaohui;Liu Meiyu~

2021/06972 ~ Complete ~54:ANTI-BLUE LIGHT PROTECTIVE FILM ~71:Zhengzhou University of Aeronautics, No. 2, University Middle Road, Zhengzhou City, Henan Province, 450015, People's Republic of China ~72: Li, Yan;Wang, Haili;Wang, Yanyan;Xin, Su;Yang, Peng;Zhong, Facheng~

2021/06979 ~ Complete ~54:TEST METHOD FOR DYNAMIC INSTABILITY FAILURE MECHANISM OF GOAF IN OPEN-PIT MINE SLOPE ~71:DEEP MINING LABORATORY, SHANDONG GOLD GROUP CO., LTD., Sanshandao Village, Sanshandao Street, Laizhou, People's Republic of China;SHANDONG GOLD GROUP CO., LTD., No. 2503 Jingshi Road, Licheng District, People's Republic of China ~72: CHEN, Kexu;JIA, Hanwen;LI, Guilin;LI, Xuguang;LIU, Huanxin;PENG, Chao;WANG, Jianbo;WU, Qinzheng;YAN, Baoxu;YIN, Yantian;ZHANG, Pingshun~ 33:CN ~31:202110667176.2 ~32:16/06/2021

2021/06994 ~ Complete ~54:COMPOSITION TO SUPPORT HEALTHY BRAIN FUNCTION ~71:The Procter & amp; Gamble Company, One Procter & amp; Gamble Plaza, CINCINNATI 45202, OH, USA, United States of America ~72: BREWSTER, Chelsay Lynn;KOZAK, Kimberly Conner;LI, Lijuan;VENKATARAMAN, Arvind~ 33:US ~31:62/827,994 ~32:02/04/2019

2021/07001 ~ Complete ~54:SATIETY INDUCING FOOD PRODUCTS AND PREPARATION THEREOF ~71:SMARTBUBBLE LTD., 11 Ravina Street, Israel ~72: EDELHEIT, Oded;ETZIONI, Adi;GOLAN, Alon~ 33:US ~31:62/811,690 ~32:28/02/2019

2021/07012 ~ Complete ~54:METHOD FOR CONTROLLING MICROCELLULAR INJECTION FOAMING ~71:GUIZHOU MATERIAL INDUSTRIAL TECHNOLOGY INSTITUTE, GUIZHOU SCIENCE CITY, NO.3491 BAIJIN ROAD, People's Republic of China ~72: JIANG, TUANHUI;LI, SHENGNAN;SHEN, CHAO;ZENG, XIANGBU;ZHANG, XIANG;ZHU, NENGGUI~

2021/07016 ~ Complete ~54:PROSTHETIC ACCESSORY STERILIZER ~71:PROSTHETIC ACCESSORY STERILIZER, 2 RHODES AVE, WALMER ESTATE, WOODSTOCK, South Africa ~72: JOHANN CORNELIUS VISSER~ 33:ZA ~31:2019/01518 ~32:12/03/2020

2021/06955 ~ Complete ~54:DOUBLE-RATCHET TYPE STUBBLE-PRESSING, SOIL-COVERING AND FERTILIZING-SOWING DEVICE ~71:Nanjing Institute of Agricultural Mechanization, Ministry of Agriculture and Rural Affairs, No. 100 Liuying, Xuanwu District, Nanjing, Jiangsu, People's Republic of China;Suzhou Hualei Agricultural Technology Co., Ltd., South of Lianyang Road, West of Longqiao Road, Wujiang Economic and Technological Development Zone, Suzhou, Jiangsu, People's Republic of China ~72: Jin Qianli;Wang Gang;Wang Shanshan;Yu Shanshan;Zhang Aiping~

2021/06962 ~ Complete ~54:PNEUMATIC SEEDER ~71:Qingdao Agricultural University, No.700 Changcheng Road, Chengyang District, Qingdao, Shandong, People's Republic of China ~72: Liu Xinghua;Wang Fangyan~

2021/06965 ~ Complete ~54:METHOD FOR PREPARING ANTIBACTERIAL EXTRACT OF SCHISANDRA CHINENSIS ~71:Poultry Institute, Shandong Academy of Agricultural Sciences, No.202 Gongye North Road, Jinan City, Shandong Province, People's Republic of China;Qilu Univsersity of Technology, No.3501 Daxue Road,

Changqing District, Jinan City, Shandong Province, People's Republic of China ~72: Huang Zhongli;Lin Shuqian;Liu Yueyue;Su Bei;Yan Shaoyue;Yang Shifa;Yang Xiaohui;Yi Yunpeng;Yin Bin;Zhao Zengcheng~

2021/06993 ~ Complete ~54:COMPOUNDS AND COMPOSITIONS AS MODULATORS OF TLR SIGNALING ~71:Neuropore Therapies, Inc., 10835 Road to the Cure, Suite 230, SAN DIEGO 92121, CA, USA, United States of America ~72: NATALA, Srinivasa Reddy;STOCKING, Emily;WRASIDLO, Wolfgang J.~ 33:US ~31:62/824,170 ~32:26/03/2019;33:US ~31:62/824,189 ~32:26/03/2019

2021/06950 ~ Provisional ~54:A FRIDGE ~71:OTEGA HOLDINGS, 6 GERANIUM STREET, ROSETTENVILLE, JOHANNESBURG, GAUTENG, 2190, SOUTH AFRICA, South Africa ~72: ADEDEGE, Adeniyi;HOBO, Vuyo;TAWANA, Tshepo~

2021/06989 ~ Complete ~54:TYRE COLD RETREADING METHOD ~71:Bridgestone Europe NV/SA, Kleine Kloosterstraat 10, ZAVENTEM 1932, BELGIUM, Belgium ~72: LELIO, Luca;LUST, Jeroen;VINCENT, Bram~ 33:IT ~31:102019000003979 ~32:19/03/2019

2021/07002 ~ Complete ~54:SYSTEMS, DEVICES, AND METHODS FOR DRIVING A WHEEL OF A BICYCLE ~71:CLIP.BIKE INC, 19 MORRIS AVENUE BUILDING 128 BROOKLYN, United States of America ~72: RAY, Somnath~ 33:US ~31:62/826,712 ~32:29/03/2020;33:US ~31:62/906,434 ~32:26/09/2020

2021/07005 ~ Complete ~54:SPIRAL PEANUT SHELL BREAKING SYSTEM AND WORKING METHOD ~71:HENAN UNIVERSITY OF SCIENCE AND TECHNOLOGY, No. 263, Kaiyuan Avenue Luoyang, People's Republic of China;QINGDAO UNIVERSITY OF TECHNOLOGY, No. 777, Jialingjiang Road, Economic and Technological Development Zone, Qingdao, People's Republic of China;RESEARCH INSTITUTE OF AGRICULTURAL MECHANIZATION, XINJIANG ACADEMY OF AGRICULTURAL SCIENCES, No. 403, Nanchang Road Urumqi, People's Republic of China ~72: HOU, Yali;LI, Changhe;LI, Xinping;LIU, Mingzheng;LIU, Xiangdong;WANG, Xiaoming;YANG, Huimin;ZHANG, Yanbin~ 33:CN ~31:202010287117.8 ~32:13/04/2020

2021/06985 ~ Complete ~54:STRUCTURED MOLECULAR VECTORS FOR ANTI-INFLAMMATORY COMPOUNDS AND USES THEREOF ~71:CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, 3 RUE MICHEL ANGE, 75016 PARIS, FRANCE, France;INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE, 101 RUE DE TOLBIAC, 75013 PARIS, FRANCE, France;UNIVERSITE CLAUDE BERNARD LYON 1, 43 BOULEVARD DU 11 NOVEMBRE 1918, 69100 VILLEURBANNE, FRANCE, France;UNIVERSITE JEAN MONNET SAINT ETIENNE, 10, RUE TRÉFILERIE MAISON DE L'UNIVERSITÉ- CS82301, 42100 SAINT ETIENNE, FRANCE, France ~72: BELMEGUENAÏ, Amor;BEZIN, Laurent;BLOT, Victor;BODENNEC, Jacques;BODENNEC, Selena;GEORGES, Béatrice~ 33:EP ~31:19305212.3 ~32:21/02/2019;33:EP ~31:19306376.5 ~32:23/10/2019

2021/07013 ~ Complete ~54:CULTIVATION METHOD FOR PROMOTING EARLY EMERGENCE OF PEANUTS AND PRESERVING FULL SEEDLINGS IN SALINE-ALKALI SOIL ~71:SHANDONG PEANUT RESEARCH INSTITUTE, No.126 Wannianquan Road, Licang District, Qingdao, People's Republic of China ~72: DAI, Liangxiang;DING, Hong;GUO, Qing;QIN, Feifei;XU, Yang;ZHANG, Guanchu;ZHANG, Zhimeng~

2021/06973 ~ Complete ~54:A TAMPER INDICATOR FOR AN ELECTRIC FENCE ~71:WILLIAMSON, Shaun, Leo, James, BISHOPS COURT, CEDAR LAKES ESTATE, CEDAR ROAD, FOURWAYS, 2021, SOUTH AFRICA, South Africa ~72: WILLIAMSON, Shaun, Leo, James~ 33:ZA ~31:2020/03465 ~32:10/12/2020

2021/06980 ~ Complete ~54:TRACK CHAIN AND METHODS FOR BUSHING ROTATION ~71:CATERPILLAR INC., 100 NE Adams Street Peoria, United States of America ~72: AKINLUA, Temitope, O.;HAKES, David, J.;HASSELBUSCH, Michael, D.~ 33:US ~31:16/360,351 ~32:21/03/2019

2021/06996 ~ Complete ~54:INTEGRATED SEWAGE TREATMENT TANK EMPLOYING BIOLOGICAL DOUBLE-EFFICIENCY PROCESS AND FLUIDIZED BED PROCESS ~71:JIANGSU LINGZHI ENVIRONMENTAL PROTECTION CO., LTD, ZHOU, Zhou D District, Industrial Park For Environmental Science & Technology,, Yixing, Wuxi, Jiangsu, 214200, People's Republic of China;JIANGSU LINGZHI ENVIRONMENTAL PROTECTION EQUIPMENT CO., LTD, ZHOU, Zhou No.9 Guangdong Road, Binhai New District, Haimen, Nantong, Jiangsu, 214200, People's Republic of China;LINGZHI ENVIRONMENTAL PROTECTION (LINQUAN) CO., LTD, ZHOU, Zhou Economic Development Zone In Linquan County, Fuyang, Anhui, 236400, People's Republic of China;LINGZHI ENVIRONMENTAL PROTECTION CO., LTD, ZHOU, Zhou Nanxin East Road, Heqiao Town, Yixing, Wuxi, Wuxi, Jiangsu, 214200, People's Republic of China ~72: LING, Jianjun;ZHANG, Dong~ 33:CN ~31:CN 201910301756.2 ~32:16/04/2019

2021/07007 ~ Complete ~54:WALNUT SHELLS CLEANING DEVICE AND METHOD WITH COOPERATION OF ULTRASONIC VIBRATION AND AUGER ROTARY PROPULSION ~71:HENAN UNIVERSITY OF SCIENCE AND TECHNOLOGY, No. 263, Kaiyuan Avenue Luoyang, People's Republic of China;QINGDAO UNIVERSITY OF TECHNOLOGY, No. 777, Jialingjiang Road, Economic and Technological Development Zone, Qingdao, People's Republic of China;XINJIANG JIANG NING LIGHT INDUSTRIAL MACHINERY ENGINEERING TECHNOLOGY CO., LTD., Room 301, 3rd Floor, No. 303, Yinxing Street Urumqi, People's Republic of China ~72: CHE, Ji;HOU, Yali;LI, Changhe;LI, Xinping;LIU, Mingzheng;LIU, Xiangdong;SHI, Mingcun;WANG, Xiaoming;YANG, Huimin;ZHANG, Yanbin~ 33:CN ~31:202010287322.4 ~32:13/04/2020

2021/06986 ~ Complete ~54:DRAINAGE SYSTEM, DRAINAGE UNITS, AND METHODS ~71:ACO SEVERIN AHLMANN GMBH & amp; CO. KG, AM AHLMANNKAI, 24782 BÜDELSDORF, GERMANY, Germany ~72: MÜLLER-BAKU, Sascha;MEINCKE, Arne;WANDKOWSKI, Marco~ 33:EP ~31:PCT/EP2019/054379 ~32:21/02/2019;33:EP ~31:PCT/EP2019/054383 ~32:21/02/2019

2021/06988 ~ Complete ~54:TYRE COLD RETREADING METHOD ~71:Bridgestone Europe NV/SA, Kleine Kloosterstraat 10, ZAVENTEM 1932, BELGIUM, Belgium ~72: LELIO, Luca;LUST, Jeroen;VINCENT, Bram~ 33:IT ~31:102019000004001 ~32:19/03/2019

2021/07009 ~ Complete ~54:ETHYL ACETATE AND WATER STRATIFICATION DEVICE AND APPLICATION THEREOF ~71:YANKUANG LUNAN CHEMICALS CO., LTD., Mushi Town, Tengzhou City, Zaozhuang, People's Republic of China ~72: BAO, Leilei;CHANG, Liang;CHEN, Ming;GUO, Xiangdong;LU, Yiwu;PENG, Xin;SHI, Panpan;WU, Xiaoping;XU, Kaifeng;ZHANG, Jianli;ZHANG, Yu;ZHANG, Yujuan~ 33:CN ~31:201910641099.6 ~32:16/07/2019

2021/06951 ~ Provisional ~54:A MICROWAVE OVEN ~71:OTEGA HOLDINGS, 6 GERANIUM STREET, ROSETTENVILLE, JOHANNESBURG, GAUTENG, 2190, SOUTH AFRICA, South Africa ~72: ADEDEGE, Adeniyi;HOBO, Vuyo;TAWANA, Tshepo~

2021/06959 ~ Complete ~54:A SUBMERSIBLE OCEAN WAVE POWER GENERATION DEVICE ~71:Ludong University, NO.186, Middle Hongqi Road, Zhifu District, Yantai City, Shandong, People's Republic of China ~72: Deng Hongli;Dong Xiaolong;Gao Haojie;Li Huaqing;Liu Chaoyue;Liu Zhiyi;Ma Chengkun;Shi Hongyuan;Xing Hao;Yu Lehan;Zhang Xuri~

2021/06967 ~ Complete ~54:CONTINUOUS PREPARATION METHOD OF CARBON FIBER WITH HIGH ELECTRICAL CONDUCTIVITY AND HIGH THERMAL CONDUCTIVITY ~71:Shandong Yunhai New Material Technology Co., Ltd., Room 306, Floor 3, Block A, Zhongguancun Science and Technology Park, Qilu High-tech Development Zone, Qihe County, Dezhou, Shandong, People's Republic of China ~72: Cao Weiwei;Gao Xueping;Liu Yulan;Qiao Kun;Wang Yongwei;Zhang Min;Zhu Bo~ 2021/06970 ~ Complete ~54:PREPARATION METHOD OF LOW GI POTATO BREAD ~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;Yan Chenmiao~

2021/07000 ~ Complete ~54:HETEROARYL(HETEROCYCLYL)METHANOL COMPOUNDS USEFUL IN THE TREATMENT OF HYPERGLYCAEMIA ~71:ATROGI AB, Cardellgatan 1 SE-114 36 Stockholm, Sweden ~72: BENJAMIN PELCMAN;TORE BENGTSSON~ 33:GB ~31:1903832.2 ~32:20/03/2019

2021/06974 ~ Complete ~54:SWITCHING ARRANGEMENT ~71:Eaton Intelligent Power Limited, Eaton House, 30 Pembroke Road, DUBLIN 4, IRELAND, Ireland ~72: CEJNAR, Pavel~ 33:GB ~31:2016017.2 ~32:09/10/2020

2021/06977 ~ Complete ~54:SATELLITE FOR END-TO-END BEAMFORMING ~71:VIASAT, INC., Patent Department, 6155 EI Camino Real, Carlsbad, California, 92009, United States of America ~72: KENNETH BUER;MARK MILLER~ 33:US ~31:62/145,804 ~32:10/04/2015;33:US ~31:62/145,810 ~32:10/04/2015;33:US ~31:62/164,456 ~32:20/05/2015;33:US ~31:62/278,368 ~32:13/01/2016;33:US ~31:62/298,911 ~32:23/02/2016;33:US ~31:62/312,342 ~32:23/03/2016;33:US ~31:62/314,921 ~32:29/03/2016

2021/06999 ~ Complete ~54:HETEROCYCLYL(PHENYL)METHANOL COMPOUNDS USEFUL IN THE TREATMENT OF HYPERGLYCAEMIA ~71:ATROGI AB, Cardellgatan 1 SE-114 36 Stockholm, Sweden ~72: BENJAMIN PELCMAN;TORE BENGTSSON~ 33:GB ~31:1903827.2 ~32:20/03/2019

2021/06983 ~ Complete ~54:HUMAN ANTIBODIES THAT BIND RET AND METHODS OF USE THEREOF ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: DALY, Christopher;PAPADOPOULOS, Nicholas;THURSTON, Gavin~ 33:US ~31:62/832,218 ~32:10/04/2019

2021/06995 ~ Complete ~54:OXIDATION DITCH AND MOVING BED BIOFILM REACTOR INTEGRATED SEWAGE TREATMENT EQUIPMENT ~71:JIANGSU LINGZHI ENVIRONMENTAL PROTECTION CO., LTD, District, Industrial Park For Environmental Science & amp; Technology, Yixing City, Wuxi, Jiangsu, 214200, People's Republic of China;JIANGSU LINGZHI ENVIRONMENTAL PROTECTION EQUIPMENT CO., LTD, No.9 Guangdong Road, Binhai New District,, Haimen City, Nantong, Jiangsu, 214200, People's Republic of China;LINGZHI ENVIRONMENTAL PROTECTION (LINQUAN) CO., LTD, Economic Development Zone In Linquan County, Fuyang, Anhui, 214200, People's Republic of China;LINGZHI ENVIRONMENTAL PROTECTION CO., LTD, Nanxin East Road, Heqiao Town, Yixing City, Wuxi, Jiangsu, 214200, People's Republic of China ~72: LING, Jianjun;ZHANG, Dong~ 33:CN ~31:201911123541.2 ~32:17/11/2019

2021/07003 ~ Complete ~54:FLEXIBLE AND WEARABLE MULTI-ENERGY ELECTRICITY-CONVERTED INTELLIGENT MONITORING SYSTEM FOR PHYSIOLOGICAL SIGNS ~71:NINGBO SANHAN ALLOY MATERIAL CO., LTD., No. 333, Liantang Road, Binhai Cixi Economic Development Zone, Ningbo, People's Republic of China;QINGDAO UNIVERSITY OF TECHNOLOGY, No. 777, Jialingjiang Road, Economic and Technological Development Zone, Qingdao, People's Republic of China ~72: CAO, Huajun;CHEN, Shuai;CUI, Xin;GAO, Teng;HOU, Yali;JIA, Dongzhou;LI, Changhe;LI, Runze;LIU, Mingzheng;LU, Bingheng;LUO, Liang;MA, Wuxing;WU, Xifeng;YANG, Min;ZHANG, Yanbin~ 33:CN ~31:201911413320.9 ~32:31/12/2019

2021/07008 ~ Complete ~54:MULTI-PARTICLE SIZE DOMAIN CLASSIFICATION DEVICE AND METHOD OF WALNUT SHELL MICRO-POWDER BASED ON MULTI-ENERGY FIELD DRIVING ~71:QINGDAO UNIVERSITY OF TECHNOLOGY, No. 777, Jialingjiang Road, Economic and Technological Development Zone, Qingdao, People's Republic of China;RESEARCH INSTITUTE OF AGRICULTURAL MECHANIZATION, XINJIANG ACADEMY OF AGRICULTURAL SCIENCES, No. 403, Nanchang Road Urumqi, People's Republic of China;XINJIANG NING LIGHT INDUSTRIAL MACHINERY ENGINEERING TECHNOLOGY CO., LTD., Room 301, 3rd Floor, No. 303, Yinxing Street Urumqi, People's Republic of China ~72: CHE, Ji;DUAN,

Zhenjing;HOU, Yali;HUANG, Baoteng;LI, Changhe;LI, Xinping;LIU, Mingzheng;LIU, Xiangdong;SHI, Mingcun;WANG, Xiaoming;YANG, Huimin;ZHANG, Yanbin~ 33:CN ~31:202010287094.0 ~32:13/04/2020

2021/06958 ~ Complete ~54:SHORELINE SAND DUNE PROTECTIVE STRUCTURE ~71:Ludong University, 186, Middle Hongqi Road, Zhifu District, Yantai City, Shandong Province, People's Republic of China ~72: Deng Hongli;Dong Xiaolong;Du Wenyan;Gao Haojie;Li Qinghua;Liu Chaoyue;Ma Chengkun;Shi Hongyuan;Xing Hao;Yu Lehan;Zhang Xuri~

2021/06961 ~ Complete ~54:SYNCHRONOUS TESTING METHOD FOR VIBRATION OF RUNNER AND OUTER WALL OF THROUGH-FLOW HYDRAULIC MACHINERY ~71:Xi'an University of Technology, No. 13 Yanta Road, Xi'an, Shaanxi Province, People's Republic of China ~72: Feng Jianjun;Li Kang;Luo Xingqi;Zhu Guojun~ 33:CN ~31:202011094423.6 ~32:14/10/2020

2021/06963 ~ Complete ~54:PREPARATION METHOD FOR THERMOPLASTIC PREPREG FABRIC BY RADIANT HEATING ~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: Cao Weiwei;Di Chengrui;Liu Yulan;Luo Zengshu;Wang Yongwei;Zhou Liang;Zhu Bo~

2021/06968 ~ Complete ~54:FOLDING FURNITURE WITH SPACE REUSABLE TECHNOLOGY ~71:Shandong Jianzhu University, No. 1000, Fengming Road, Licheng District, Jinan City, Shandong Province, People's Republic of China ~72: Dong Min;Zhang Qingran~

2021/06969 ~ Complete ~54:METHOD OF REDUCING NITROGEN FERTILIZER APPLICATION ON CORN IN LOW-LATITUDE AND HIGH-COLD MOUNTAINOUS AREAS ~71:Institute of grain crops, Yunnan Academy of Agricultural Sciences, No.2238 Beijing Road, Panlong District, Kunming City, Yunnan Province, People's Republic of China ~72: An Hua;Guan Junjiao;Li Sheping;Li Xiaolin;Wang Baoshu;Zhang Jianhua;Zhang Peng;Zhang Xingfu~

2021/06971 ~ Complete ~54:PREPARATION METHOD FOR ANTI-BLUE LIGHT PROTECTIVE FILM BASED ON PLASMONIC PARTICLES ~71:Zhengzhou University of Aeronautics, No. 2, University Middle Road, Zhengzhou City, Henan Province, 450015, People's Republic of China ~72: Chu, Bo;Li, Yan;Ma, Huali;Tan, Qianwen;Wang, Yanyan;Yuan, Sheng;Zeng, Fanguang;Zhong, Facheng~

2021/06975 ~ Complete ~54:A MASK ~71:MARC BARNFATHER, 26 Promontory Road, South Africa ~72: MARC BARNFATHER~

2021/06978 ~ Complete ~54:SATELLITE FOR END-TO-END BEAMFORMING ~71:VIASAT, INC., Patent Department, 6155 EI Camino Real, Carlsbad, California, 92009, United States of America ~72: KENNETH BUER;MARK MILLER~ 33:US ~31:62/145,804 ~32:10/04/2015;33:US ~31:62/145,810 ~32:10/04/2015;33:US ~31:62/164,456 ~32:20/05/2015;33:US ~31:62/278,368 ~32:13/01/2016;33:US ~31:62/298,911 ~32:23/02/2016;33:US ~31:62/312,342 ~32:23/03/2016;33:US ~31:62/314,921 ~32:29/03/2016

2021/06990 ~ Complete ~54:METHOD FOR PRODUCING A CATALYST FOR UNSATURATED CARBOXYLIC ACID SYNTHESIS ~71:Mitsubishi Chemical Corporation, 1-1, Marunouchi 1-chome, Chiyoda-ku, TOKYO 1008251, JAPAN, Japan ~72: ABE, Yoshimune;KANUKA, Nariyasu;OKADA, Shigeki~ 33:JP ~31:2019-067228 ~32:29/03/2019;33:JP ~31:2020-055290 ~32:26/03/2020

2021/07015 ~ Complete ~54:BRIDGED TRICYCLIC CARBAMOYLPYRIDONE COMPOUNDS AND THEIR PHARMACEUTICAL USE ~71:Gilead Sciences, Inc., 333 Lakeside Drive, Foster City, United States of America ~72: CHU, Hang;GONZALEZ BUENROSTRO, Ana Z.;GUO, Hongyan;HAN, Xiaochun;JIANG, Lan;LI,

Jiayao;MITCHELL, Michael L.;PYUN, Hyung-Jung;SCHROEDER, Scott D.;SCHWARZWALDER, Gregg M.;SHAPIRO, Nathan D.;SHIVAKUMAR, Devleena M.;WU, Qiaoyin;YANG, Hong;ZHANG, Jennifer R.~ 33:US ~31:62/822,703 ~32:22/03/2019;33:US ~31:62/948,697 ~32:16/12/2019

- APPLIED ON 2021/09/21 -

2021/07050 ~ Complete ~54:ZERO-STIFFNESS IMPACT ISOLATION DEVICE ~71:BEIHANG UNIVERSITY, No. 37, Xueyuan Road, Haidian District, People's Republic of China;HANGZHOU DETI CIVIL AIR DEFENSE EQUIPMENT CO., LTD., Room 8418, No. 2, Tushan 1st Lane, Huancheng East Road, Shangcheng District, People's Republic of China ~72: CHENG, Wei;LI, Ming;MEI, Junjie;QIAN, Feijie;RAN, Ji;ZHENG, Hexiang~ 33:CN ~31:201910716329.0 ~32:05/08/2019

2021/07021 ~ Complete ~54:BEAMFORMER FOR END-TO-END BEAMFORMING ~71:VIASAT, INC., Patent Department, 6155 EI Camino Real, Carlsbad, California, 92009, United States of America ~72: CHRISTOPHER CRONIN;KENNETH BUER;MARK MILLER~ 33:US ~31:62/145,804 ~32:10/04/2015;33:US ~31:62/145,810 ~32:10/04/2015;33:US ~31:62/164,456 ~32:20/05/2015;33:US ~31:62/278,368 ~32:13/01/2016;33:US ~31:62/298,911 ~32:23/02/2016;33:US ~31:62/312,342 ~32:23/03/2016;33:US ~31:62.314,921 ~32:29/03/2016

2021/07027 ~ Complete ~54:STABLE WRAPPER FOR AEROSOL GENERATING ARTICLE ~71:PHILIP MORRIS PRODUCTS S.A., Quai Jeanrenaud 3, Switzerland ~72: JOYEUX, Thierry~ 33:EP ~31:19179254.8 ~32:10/06/2019

2021/07032 ~ Complete ~54:D-METYROSINE COMPOSITIONS AND METHODS FOR PREPARING SAME ~71:Tyme, Inc., 1 Pluckemin Way, Suite 103, BEDMINSTER 07921, NJ, USA, United States of America ~72: ZUCARO, John~ 33:US ~31:62/822,242 ~32:22/03/2019

2021/07040 ~ Complete ~54:METHANATION METHOD IN A BIOREACTOR UNDER CONTINUOUS CELL-RETENTION CONDITIONS ~71:ELECTROCHAEA GMBH, Semmelweisstrasse 3, Germany ~72: FORNERO, Jeff;GAASTRA, Imko;HAFENBRADL, Doris;HEIN, Mich;HOERL, Manuel;KNUDSEN, Hans;LARDON, Laurent;POPP, Felix~ 33:DE ~31:10 2019 110 387.8 ~32:18/04/2019

2021/07049 ~ Complete ~54:AN IMPLANTABLE ELECTRONIC DEVICE AND ENDOPROSTHESIS ~71:MOKETE LIPALO, 16 Queens Road, South Africa ~72: MOKETE LIPALO~ 33:ZA ~31:2019/05590 ~32:22/02/2019

2021/07036 ~ Complete ~54:METHOD OF TREATING INFECTIVE ENDOCARDITIS ~71:ContraFect Corporation, 28 Wells Avenue, 3rd Floor, YONKERS 10701, NY, USA, United States of America ~72: SCHUCH, Raymond~ 33:US ~31:62/822,386 ~32:22/03/2019;33:US ~31:62/832,708 ~32:11/04/2019;33:US ~31:62/849,093 ~32:16/05/2019;33:US ~31:62/898,379 ~32:10/09/2019;33:US ~31:62/965,720 ~32:24/01/2020

2021/07052 ~ Complete ~54:PHASE-CORRECTION OF RADIOFREQUENCY-MULTIPLEXED SIGNALS ~71:BECTON, DICKINSON AND COMPANY, 1 Becton Drive, United States of America ~72: BAHR, Matthew;LIN, Jonathan;OWSLEY, Keegan~ 33:US ~31:62/854,875 ~32:30/05/2019

2021/07020 ~ Complete ~54:MESH SUPPORT ~71:STRUKSOL ENGINEERING (PTY) LTD, 1 Strawberry Fields 1, Palm Lakes Estate, South Africa ~72: MOREL, Dane~

2021/07034 ~ Complete ~54:MINIMIZING AGGLOMERATION, AERATION, AND PRESERVING THE COATING OF PHARMACEUTICAL COMPOSITIONS COMPRISING IBUPROFEN ~71:Catalent U.K. Swindon Zydis

Limited, 1 George Square, GLASGOW G2 1AL, UNITED KINGDOM, United Kingdom ~72: HOWES, Simon Andrew Martyn;MCLAUGHLIN, Rosaleen;PARKER, Adam;WHEADON, Craig;WHITEHOUSE, Jonathon~ 33:US ~31:62/809,287 ~32:22/02/2019;33:US ~31:62/809,293 ~32:22/02/2019;33:US ~31:62/809,307 ~32:22/02/2019

2021/07093 ~ Provisional ~54:PHONE FINGERPRINT EMERGENCY BUTTON ~71:Michael Grunyuza, 504 Russells Place, Sophie de Bruyne street, Pretoria Central, South Africa ~72: Michael Grunyuza~

2021/07023 ~ Complete ~54:A MEDIUM FOR INCREASED SURFACE AREA ~71:CLEAR EDGE PROJECTS CC, 37 Palm Springs Village, Mount Edgecombe, South Africa ~72: CARLISLE, Mathew Benedict~ 33:ZA ~31:2020/05916 ~32:25/09/2020

2021/07044 ~ Complete ~54:HEAVY CHAIN ANTIBODIES BINDING TO PSMA ~71:TENEOBIO, INC., 7999 Gateway Blvd., Suite 320, Newark, California, 94560, United States of America ~72: BEN BUELOW;KEVIN DANG;STARLYNN CLARKE;WIM VAN SCHOOTEN~ 33:US ~31:62/830,130 ~32:05/04/2019

2021/07045 ~ Complete ~54:CONE CRUSHER ~71:METSO OUTOTEC FINLAND OY, Lokomonkatu 3, Tampere, 33900, Finland ~72: AKI LAUTALA;ANDRZEJ NIKLEWSKI;JONATHON HOOGLAND;KARI KUVAJA;MAXIME DELAHAYE;MIKA PELTONEN;NICOLAS GALLAY;PAULO BARSCEVICIUS;PIERRICK BOULAY~ 33:US ~31:16/363,477 ~32:25/03/2019

2021/07038 ~ Complete ~54:EGFR X CD28 MULTISPECIFIC ANTIBODIES ~71:Regeneron Pharmaceuticals, Inc., 777 Old Saw Mill River Road, TARRYTOWN 10591, NY, USA, United States of America ~72: HABER, Lauric;LIN, Chia-Yang;MURPHY, Andrew J.;SKOKOS, Dimitris;YANCOPOULOS, George D.~ 33:US ~31:62/822,124 ~32:22/03/2019

2021/07042 ~ Complete ~54:PROGRAMMABLE EPIGENETIC CONTROL OF GENE EXPRESSION IN PLANTS ~71:SOUND AGRICULTURE COMPANY, 5858 Horton Street, Suite 575, Emeryville, California, 94608, United States of America ~72: ADEN KINNE;ITXASO GARAY;JENNIFER ADELE SAMSON;KEVIN L SCHNEIDER;TRAVIS BAYER~ 33:US ~31:62/820,172 ~32:18/03/2019

2021/07043 ~ Complete ~54:MODIFIED UPSAMPLING FOR VIDEO CODING TECHNOLOGY ~71:V-NOVA INTERNATIONAL LTD, 8th Floor 1 Sheldon Square, Paddington, London, W2 6TT, United Kingdom ~72: GUIDO MEARDI~ 33:GB ~31:1903844.7 ~32:20/03/2019;33:GB ~31:1904014.6 ~32:23/03/2019;33:GB ~31:1904492.4 ~32:29/03/2019;33:GB ~31:1905325.5 ~32:15/04/2019

2021/07022 ~ Complete ~54:ACCESS NODE FOR END-TO-END BEAMFORMING ~71:VIASAT, INC., Patent Department, 6155 EI Camino Real, Carlsbad, California, 92009, United States of America ~72: CHRISTOPHER CRONIN;KENNETH BUER;MARK MILLER~ 33:US ~31:62/145,804 ~32:10/04/2015;33:US ~31:62/145,810 ~32:10/04/2015;33:US ~31:62/164,456 ~32:20/05/2015;33:US ~31:62/278,368 ~32:13/01/2016;33:US ~31:62/298,911 ~32:23/02/2016;33:US ~31:62/312,342 ~32:23/03/2016;33:US ~31:62.314,921 ~32:29/03/2016

2021/07024 ~ Complete ~54:A SYNTHETIC METHOD FOR A-KETOAMIDE COMPOUND OF ORTHO ALDEHYDE GROUP ~71:Jiangnan University, No.1800 Lihu Avenue, Jingkai District, People's Republic of China ~72: Ce WANG;Hao QIN;Kailing ZHANG;Lianghua ZOU;Shuang LIU;Shuke YANG;Yuanyuan CHEN;Zeyu SHAO~

2021/07030 ~ Complete ~54:MINIMIZING AGGLOMERATION OF DRUG PARTICLE COATING MATERIAL DURING STORAGE TO STABILIZE DISINTEGRATION TIMES OF PHARMACEUTICAL PRODUCTS ~71:Catalent U.K. Swindon Zydis Limited, 1 George Square, GLASGOW G2 1AL, UNITED KINGDOM, United

Kingdom ~72: HOWES, Simon Andrew Martyn;MCLAUGHLIN, Rosaleen;WHEADON, Craig;WHITEHOUSE, Jonathon~ 33:US ~31:62/809,307 ~32:22/02/2019

2021/07037 ~ Complete ~54:METHOD AND APPARATUS FOR DETERMINING A STATE OF CHARGE FOR A BATTERY ~71:General Electric Company, 1 River Road, SCHENECTADY 12345, NY, USA, United States of America ~72: BAYADI, Ramaprakash;BHAT, Sanketh;GOURICHANKAR, Karthick~

2021/07046 ~ Complete ~54:FUNGICIDAL ARYL AMIDINES ~71:CORTEVA AGRISCIENCE LLC, 9330 Zionsville Road, Indianapolis, Indiana, 46268, United States of America ~72: ANN M BUYSSE;BENJAMIN M NUGENT;BRIAN A LOY;CRUZ AVILA-ADAME;DAVID M JONES;GARY D GUSTAFSON;JEFF PETKUS;JEREMY KISTER;JOSEPH M GRUBER;NICHOLAS R BABIJ;STACY T MEYER;WEIWEI WANG~ 33:US ~31:62/852,074 ~32:23/05/2019

2021/07051 ~ Complete ~54:APPARATUS, METHOD AND KIT FOR DETECTION OF VON WILLEBRAND FACTOR AND FACTOR VIII ~71:INDIAN COUNCIL OF MEDICAL RESEARCH, V. Ramalingaswami Bhawan, India ~72: KASATKAR, Priyanka Arun;SHETTY, Shrimati Dharmapal~ 33:IN ~31:201911010626 ~32:19/03/2019

2021/07019 ~ Provisional ~54:GAMING CONTROLLER ~71:GARID GEORGE GLENN, 7 Simonzicht Crescent, Avalon Estate, Uitzicht, Cape Town, 7550, South Africa ~72: GARID GEORGE GLENN~

2021/07026 ~ Complete ~54:METHODS FOR GENERATING, AND SEQUENCING FROM, ASYMMETRIC ADAPTORS ON THE ENDS OF POLYNUCLEOTIDE TEMPLATES COMPRISING HAIRPIN LOOPS ~71:ILLUMINA CAMBRIDGE LIMITED, ; 19 Granta Park Great Abingdon Cambridge, United Kingdom ~72: GORMLEY, Niall Anthony~ 33:US ~31:62/926,360 ~32:29/10/2019

2021/07035 ~ Complete ~54:INVESTMENT POWDER ~71:Goodwin PLC, Ivy House Foundry, Hanley, STOKE-ON-TRENT ST1 3NR, STAFFORDSHIRE, UNITED KINGDOM, United Kingdom ~72: GOODWIN, Simon Robert;PALIN, Michael Gerard~ 33:GB ~31:1904495.7 ~32:29/03/2019;33:GB ~31:1906989.7 ~32:17/05/2019

2021/07018 ~ Provisional ~54:AN APPARATUS AND METHOD FOR THE REVERSE VENDING OF USED OIL ~71:HALFON, Daniel Ezra, 9B Lancaster House, 209 Main Road, THREE ANCHOR BAY, Cape Town 8005, Western Cape Province, SOUTH AFRICA, South Africa;ROSS, Alick Willem, 22 Vesperdene Road, GREEN POINT, Cape Town 8005, Western Cape Province, SOUTH AFRICA, South AFRICA, South Africa ~72: HALFON, Daniel Ezra;ROSS, Alick Willem~

2021/07031 ~ Complete ~54:PRESERVING FUNCTIONALLY-COATED API PARTICLES PRODUCED BY SOLVENTLESS MIXING PROCESSES IN AQUEOUS SUSPENSION ~71:Catalent U.K. Swindon Zydis Limited, 1 George Square, GLASGOW G2 1AL, UNITED KINGDOM, United Kingdom ~72: MCLAUGHLIN, Rosaleen;PARKER, Adam;WHITEHOUSE, Jonathon~ 33:US ~31:62/809,287 ~32:22/02/2019

2021/07041 ~ Complete ~54:T CELL REPERTOIRE DYNAMICS AND ONCOLYTIC VIRAL THERAPY ~71:ONCOLYTICS BIOTECH INC., 1167 Kensington Crescent, NW, Suite 210, Calgary, Alberta, T2N 1X7, Canada ~72: GREY WILKINSON~ 33:US ~31:62/809,190 ~32:22/02/2019

2021/07047 ~ Complete ~54:HETERODIMERIC ANTIBODIES THAT BIND ENPP3 AND CD3 ~71:XENCOR, INC., 111 West Lemon Avenue, Monrovia, California, 91016, United States of America ~72: ALEX NISTHAL;GREGORY MOORE;RUMANA RASHID;SEUNG CHU;SUNG-HYUNG LEE;UMESH S MUCHHAL;YOON KYUNG KIM~ 33:US ~31:62/812,922 ~32:01/03/2019;33:US ~31:62/929,687 ~32:01/11/2019

2021/07053 ~ Complete ~54:NOVEL PROCESS FOR THE PREPARATION OF FILGOTINIB AND INTERMEDIATES THEREOF ~71:UNICHEM LABORATORIES LIMITED, Unichem Bhavan, Prabhat Estate, Off. S.V. Road, Jogeshwari (W), Mumbai, Maharashtra, 400102, India ~72: DAS, Arijit;KSHIRSAGAR, Eknath;MATALE, Ashok;PATEL, Bhavesh;PATIL, Dipak;SATHE, Dhananjay G.~ 33:IN ~31:201921012919 ~32:30/03/2019

2021/07017 ~ Provisional ~54:E-VOTING CONCEPTS FOR SOUTH AFRICA ~71:Linda Mzwakhe Mhletywa Manetsi, 700 Haggard Street, Goblerspark, South Africa ~72: Linda Manetsi~ 33:ZA ~31:2 ~32:20/09/2021

2021/07025 ~ Complete ~54:PI4-KINASE INHIBITORS AND METHODS OF USING THE SAME ~71:THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY, Office of the General Counsel, United States of America ~72: BASU, Kaustabh;GLENN, Jeffrey S.;PHAM, Edward A.;SMITH, Mark;STABLER, Stephen~ 33:US ~31:62/821,853 ~32:21/03/2019

2021/07029 ~ Complete ~54:METHODS AND COMPOSITIONS FOR REPELLING BIRDS IN CROP PLANTS ~71:Bayer Aktiengesellschaft, Kaiser-Wilhelm-Allee 1, LEVERKUSEN 51373, GERMANY, Germany ~72: BARTLETT, Mark;BONNISSOL, Stéphane;DE VERGNES, Bernard;DIETENBECK, JoëI;HAHNE, Joerg;SOUBIEUX, Laurence~ 33:EP ~31:19158912.6 ~32:22/02/2019

2021/07028 ~ Complete ~54:PROBIOTIC BIOFILM COMPOSITIONS AND METHODS OF PREPARING SAME ~71:MYBIOTICS PHARMA LTD., 2 Ilan Ramon, 2nd floor, P.O box 4061, Science Park, Israel ~72: COHEN, Stephanie;DABOUSH, David;ELYAHU, Hila;ROZNER, Dorit~ 33:US ~31:16/368,030 ~32:28/03/2019;33:US ~31:62/827,931 ~32:02/04/2019

2021/07033 ~ Complete ~54:MINIMIZING AERATION OF SUSPENSIONS DURING IN-LINE MIXING ~71:Catalent U.K. Swindon Zydis Limited, 1 George Square, GLASGOW G2 1AL, UNITED KINGDOM, United Kingdom ~72: HOWES, Simon Andrew Martyn;MCLAUGHLIN, Rosaleen;WHITEHOUSE, Jonathon~ 33:US ~31:62/809,293 ~32:22/02/2019

2021/07039 ~ Complete ~54:A FACIAL RECOGNITION SMART LOCK CONTROL SYSTEM BASED ON 5G TECHNOLOGY ~71:FUYANG WANRUI ELECTRONIC LOCKS CO. LTD, Yingshang County Industrial Park, People's Republic of China ~72: Weizhong LIN~ 33:CN ~31:202010152663.0 ~32:06/03/2020

2021/07048 ~ Complete ~54:HMOX1 INDUCERS ~71:MITOBRIDGE, INC., 1030 Massachusetts Avenue, Suite 200, Cambridge, Massachusetts, 02138, United States of America ~72: ARTHUR KLUGE;BHARAT LAGU;ERIC BELL;MARGARET BIDDLE;SANJITA SASMAL;TAKASHI OGIYAMA;XINYUAN WU~ 33:US ~31:62/833,031 ~32:12/04/2019;33:US ~31:62/932,629 ~32:08/11/2019

- APPLIED ON 2021/09/22 -

2021/07075 ~ Complete ~54:TERMINAL AND TRANSMISSION METHOD ~71:PANASONIC INTELLECTUAL PROPERTY CORPORATION OF AMERICA, 20000 MARINER AVENUE, SUITE 200, TORRANCE, CA 90503, USA, United States of America ~72: HORIUCHI, Ayako;NISHIO, Akihiko;SUZUKI, Hidetoshi;YAMAMOTO, Tetsuya~ 33:JP ~31:2019-061490 ~32:27/03/2019

2021/07064 ~ Complete ~54:A HEALTH MONITORING SYSTEM ~71:DE VILLIERS, Johnathan Pierre, 33A Dean Road, Bedfordview, South Africa ~72: DE VILLIERS, Johnathan Pierre~

2021/07056 ~ Provisional ~54:DEPLOYMENT OF A DETONATOR ASSEMBLY ~71:DETNET SOUTH AFRICA (PTY) LTD, AECI Place, The Woodlands, Woodlands Drive, Woodmead, South Africa ~72: KRUGER, Michiel Jacobus~

2021/07073 ~ Complete ~54:PECAN NUT KERNEL EXTRACTION METHOD ~71:DUNSHEA, Christopher Laurence, Pine Valley Estate, Farm Rietvallei 256 JT Portion 11, Schagen, South Africa ~72: BERLEIN, Anthony Walter;BERLEIN, Catherine Mary~ 33:WO ~31:PCT/IB2019/058608 ~32:09/10/2019

2021/07077 ~ Complete ~54:ANTI-CD6 ANTIBODY COMPOSITIONS AND METHODS FOR TREATING LUPUS ~71:EQUILLIUM, INC., 2223 AVENIDA DE LA PLAYA, LA JOLLA, CALIFORNIA 92037, USA, United States of America;UNIVERSITY OF HOUSTON SYSTEM, 4800 CALHOUN ROAD, HOUSTON, TEXAS 77004, USA, United States of America ~72: CONNELLY, Stephen;MOHAN, Chandra;POLU, Krishna~ 33:US ~31:62/810,628 ~32:26/02/2019;33:US ~31:62/933,294 ~32:08/11/2019

2021/07091 ~ Complete ~54:MANUFACTURING METHODS AND POLYMORPHS OF A THIAZOLINE ANTI-HYPERALGESIC AGENT ~71:CERSCI THERAPEUTICS, INC., 1601 Elm Street, Floor 33, Dallas, Texas, 75201, United States of America ~72: SCOTT L DAX~ 33:US ~31:62/846,096 ~32:10/05/2019

2021/07059 ~ Complete ~54:NOVEL SELF-CLEANING SCREENING AND SAMPLING DEVICE FOR GEOLOGICAL ENGINEERING SURVEY ~71:SHANDONG UNIVERSITY OF SCIENCE AND TECHNOLOGY, No.579 Qianwangang Road, Huangdao District,, Qingdao, Shandong Province, 266590, People's Republic of China ~72: GAO, Fasheng;GAO, Zongjun;TONG, Hui~

2021/07092 ~ Complete ~54:NOVEL FORMULATIONS COMPRISING MELFLUFEN ~71:ONCOPEPTIDES AB, Västra Trädgårdsgatan 15, 111 53, Stockholm, Sweden ~72: FREDRIK LEHMANN;PETER TEODOROVIC~ 33:GB ~31:1905477.4 ~32:17/04/2019

2021/07054 ~ Provisional ~54:BUTTER FAT SPREAD ~71:SIQALO FOODS (PTY) LTD, 10 The Boulevard, Westway Office Park, South Africa ~72: MZUNGU, Chipita;SAKWA, Susan, Matemu;VLOTMAN, Alicia;XABA, Phakamani~

2021/07062 ~ Complete ~54:ORGANIC FERTILIZER HEAVY METAL PASSIVATION REMOVAL DEVICE ~71:Cultivated Land and Fertilizer Management Station of Zhejiang, 29 East Road of Fengqi, Hangzhou, Zhejiang, 310021, People's Republic of China;Zhejiang Academy of Agricultural Sciences, No. 298 Desheng Middle Road, Jianggan District, Hangzhou, Zhejiang, 310021, People's Republic of China ~72: CHEN, Hongjin;CHEN, Zhengdao;KONG, Haimin;LIN, Hui;WU, Qifeng;YANG, Guiling;YU, Bing;YU, Yijun~

2021/07067 ~ Complete ~54:NUTRIENT SOLUTION FOR SOILLESS CULTURE OF FRUIT AND VEGETABLE CROPS, PREPARATION METHOD AND SOLUTION SUPPLYING METHOD ~71:CHINA AGRICULTURAL UNIVERSITY, NO. 2, YUANMINGYUAN WEST ROAD, HAIDIAN DISTRICT, People's Republic of China ~72: QIXIN SUN;ZHIFANG LI~

2021/07072 ~ Complete ~54:ECG SIGNAL CLASSIFICATION SYSTEM AND METHOD BASED ON FPA AND COMPACT MULTIPLE CLASS SVM ~71:GUPTA, Bhumika, Department of Computer Science and Engineering, Govind Ballabh Pant Institute of Engineering & amp; Technology, Uttarakhand, India;VERMA, Agya Ram, Department of Electronic & amp; Communication Engineering, Govind Ballabh Pant Institute of Engineering & amp; Technology, Uttarakhand, India ~72: GUPTA, Bhumika;VERMA, Agya Ram~

2021/07060 ~ Complete ~54:MULTIFUNCTIONAL DRAWING DEVICE FOR GEOLOGICAL FIELD RECORD ~71:SHANDONG UNIVERSITY OF SCIENCE AND TECHNOLOGY, No.579 Qianwangang Road, Huangdao District,, Qingdao, Shandong Province, 266590, People's Republic of China ~72: GAO, Fasheng;GAO, Zongjun;TONG, Hui~

2021/07058 ~ Complete ~54:SWEET POTATO SELENIUM-ENRICHED FERTILIZER WITH WATER RETENTION FUNCTION, AND PREPARATION METHOD OF SWEET POTATO SELENIUM-ENRICHED FERTILIZER ~71:Qingdao Agricultural University, #700 Changcheng Road, Chengyang, Qingdao, Shandong, People's Republic of China ~72: Liu Qing;Sun Ninghui;Tian Xia~

2021/07066 ~ Complete ~54:SIMULATION METHOD FOR ENERGY-SAVING BUILDING DESIGN AND ITS SYSTEM ~71:Anhui University of Science and Technology, No.168 Taifeng Street, Huainan City, Anhui, 232001, People's Republic of China ~72: Yunfeng Huang~

2021/07055 ~ Provisional ~54:PROCESS FOR THE PRODUCTION OF BUTTER FAT SPREAD ~71:SIQALO FOODS (PTY) LTD, 10 The Boulevard, Westway Office Park, South Africa ~72: MZUNGU, Chipita;SAKWA, Susan, Matemu;VLOTMAN, Alicia;XABA, Phakamani~

2021/07061 ~ Complete ~54:METHOD FOR PREPARING POLYPEPTIDE TUBULYSIN M WITH HIGH ANTI-TUMOR ACTIVITY ~71:Shenzhen Institute of Geriatrics, No.3002 Sungang West Road, Futian District, Shenzhen, Guangdong Province, People's Republic of China;Wu Zhengzhi, No.3002 Sungang West Road, Futian District, Shenzhen, Guangdong Province, People's Republic of China ~72: Long Bohua;Wu Zhengzhi~

2021/07063 ~ Complete ~54:THE DUAL-ADJUSTMENT INTELLIGENT HYDRAULIC AUXILIARY BRAKING SYSTEM AND CONTROL METHOD FOR HEAVY COMMERCIAL VEHICLE ~71:Jilin University, No. 2699, Qianjin Avenue, Changchun, Jilin, People's Republic of China ~72: Chunbao Liu;Kaidiao Jin;Konghua Yang;Xu Qian;Yuxiao Tang~

2021/07071 ~ Complete ~54:FLAX STRAW SMASHING AND THRESHING ALL-IN-ONE DEVICE ~71:Dali Bai Autonomous Prefecture Agricultural Science Extension Research Institute, North Suburb, Fengyi Town, Dali City, Dali Prefecture, Yunnan, 671005, 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;CHEN, Xiaoyan;FAN, Conggui;JIN, Guanrong;LI, Shufeng;LI, Wenlue;LIU, Tingting;LUO, Xiahong;WANG, Xueming;YANG, Jianping;YE, Jianda;ZHU, Guanlin;ZHU, Xuan~

2021/07086 ~ Complete ~54:PESTICIDALLY ACTIVE DIAZINE-AMIDE COMPOUNDS ~71:Syngenta Crop Protection AG, Rosentalstrasse 67, BASEL 4058, SWITZERLAND, Switzerland ~72: EDMUNDS, Andrew;GAGNEPAIN, Julien Daniel Henri;HALL, Roger Graham;JEANGUENAT, André;KOLLETH KRIEGER, Amandine;LE CHAPELAIN, Camille;PALWE, Shrikant;PHADTE, Mangala;PITTERNA, Thomas;RENDLER, Sebastian;SCARBOROUGH, Christopher Charles;SCHAETZER, Jürgen Harry~ 33:EP ~31:19168715.1 ~32:11/04/2019;33:EP ~31:19196236.4 ~32:09/09/2019;33:EP ~31:20152751.2 ~32:20/01/2020

2021/07069 ~ Complete ~54:UNPOLISHED DIAMONDS ONLINE BIDDING SYSTEM AND METHOD ~71:ARETHA BAUWENS HOLDINGS (PTY) LTD., 15 Barchan Circle, Cape Town, Western Cape, 7441, South Africa ~72: MARTIN - JEAN BAUWENS~

2021/07082 ~ Complete ~54:SUN PROTECTANT FOR CROP PLANTS ~71:GLOBACHEM NV, Lichtenberglaan 2019, Belgium ~72: CLAES, Francis;VAN DAELE, Guy~ 33:EP ~31:19020239.0 ~32:29/03/2019

2021/07088 ~ Complete ~54:DEVICE FOR DETERMINING THE PRESENCE OF A BACTERIOLOGICAL CONTAMINATION IN A FLUID ~71:bioMérieux, MARCY L'ETOILE 69280 , FRANCE, France ~72: BUATHIER, Yoann;HEURTAUX, Emilie;MONTET, Marie-Pierre;ROZAND, Christine;THEVENOT, Cécile~ 33:FR ~31:1903807 ~32:09/04/2019;33:FR ~31:1911739 ~32:21/10/2019

2021/07076 ~ Complete ~54:TERMINAL AND TRANSMISSION METHOD ~71:PANASONIC INTELLECTUAL PROPERTY CORPORATION OF AMERICA, 20000 MARINER AVENUE, SUITE 200, TORRANCE, CA 90503,

USA, United States of America ~72: LI, Yihui;NISHIO, Akihiko;SUZUKI, Hidetoshi;YAMAMOTO, Tetsuya~ 33:JP ~31:2019-061499 ~32:27/03/2019

2021/07068 ~ Complete ~54:STARCH-SOLUBLE DIETARY FIBRE NANOCOMPOSITE ~71:CAPE PENINSULA UNIVERSITY OF TECHNOLOGY, Symphony Way (off Modderdam Road) Bellville, Cape Town, 7530, South Africa ~72: DANIEL IMWANSI OGIEMWANVA IKHU-OMOREGBE;NONTOBEKO BENHILDA GULU;VICTORIA ADAORA EBELE JIDEANI;YVONNE MAPHOSA~ 33:GB ~31:2016304.4 ~32:14/10/2020

2021/07080 ~ Complete ~54:RETROREFLECTIVE SHEET ~71:KIWA CHEMICAL INDUSTRY CO., LTD, 33 Minamitanabe-cho, Wakayama-shi, Japan ~72: MAEDA, Yukihiro;MAEKAWA, Ippei~ 33:JP ~31:2019-197594 ~32:30/10/2019

2021/07065 ~ Complete ~54:HIGH-TEMPERATURE-RESISTANT COLORING EARLY SELECTION METHOD FOR EARLY-MID RIPENING HYBRID APPLE SEEDLINGS ~71:SHANDONG INSTITUTE OF POMOLOGY, No. 64, Longtan Road, Tai'an City,, People's Republic of China ~72: CHANG, Yuansheng;HE, Ping;HE, Xiaowen;LI, Linguang;WANG, Haibo;WANG, Sen~

2021/07078 ~ Complete ~54:MIXTURE COMPRISING GLYOXYLIC ACID OR CONDENSATION OR ADDITION PRODUCTS THEREOF ~71:BASF SE, CARL BOSCH STRASSE 38, 67056 LUDWIGSHAFEN AM RHEIN, GERMANY, Germany ~72: BIZZOZERO, Julien;DENGLER, Joachim;GRASSL, Harald;SCHÖBEL, Alexander~ 33:EP ~31:19159761.6 ~32:27/02/2019

2021/07083 ~ Complete ~54:FLUID ANALYSIS APPARATUS, SYSTEM AND METHOD ~71:ENERGY TECHNOLOGY SERVICES PTY. LTD., Unit 2, 26A Ralph Street, Alexandria, NSW, 2015, Australia ~72: PAPESH, Brent, Thomas;SINCLAIR, Jarrod, James~ 33:AU ~31:2019900892 ~32:18/03/2019

2021/07089 ~ Complete ~54:SLIDE-TYPE RANGE HOOD ~71:Oy Halton Group Ltd., Firdonkatu 2 T 146, Tripla - Workery West, HELSINKI 00520, FINLAND, Finland ~72: HIRSCHMANN, Christian;RYYNÄNEN, Jouni;TAN, Chun Khai~ 33:US ~31:62/829,218 ~32:04/04/2019

2021/07074 ~ Complete ~54:PRECLEANER SYSTEM ~71:CATERPILLAR INC., 100 NE Adams Street Peoria, United States of America ~72: FINN, Timothy~ 33:US ~31:16/365,286 ~32:26/03/2019

2021/07085 ~ Complete ~54:MODIFIED CYANINE DYES AND CONJUGATES THEREOF ~71:Bracco Imaging SpA, Via Egidio Folli, 50, MILANO 20134, ITALY, Italy ~72: BLASI, Francesco;BRIOSCHI, Chiara;BUONSANTI, Federica;MIRAGOLI, Luigi;NAPOLITANO, Roberta;ORIO, Laura;PIZZUTO, Lorena;VALBUSA, Giovanni~ 33:EP ~31:19174082.8 ~32:13/05/2019

2021/07057 ~ Complete ~54:METHOD FOR MEASURING ABSORPTION AND RETENTION EFFECTS OF PLANTS ON PARTICLES WITH DIFFERENT SIZES ~71:QINGDAO AGRICULTURAL UNIVERSITY, No. 700 Changcheng Road, Chengyang District, Qingdao, People's Republic of China ~72: GUO, Xiao;LI, Haimei;SUN, Yingkun;XU, Meng;ZHOU, Chunling;ZHU, Xu~

2021/07070 ~ Complete ~54:USE OF REAGENT FOR DETECTING SNP MOLECULAR MARKERS IN PREPARING KIT FOR IDENTIFYING COLORECTAL CANCER PATIENTS WITH HIGH RISK OF PROGRESSION ~71:Yancheng Teachers University, No. 2, South Road of Xiwang Avenue, Yancheng City, Jiangsu Province , 224002, People's Republic of China ~72: GAO, Xueren;HUANG, Zhijun;LI, Jianping;LI, Xianyang;MA, Jing;ZHANG, Shulong~ 33:CN ~31:202110946527.3 ~32:18/08/2021
2021/07081 ~ Complete ~54:CONTINUOUS PRODUCTION OF RECOMBINANT PROTEINS ~71:GENZYME CORPORATION, 50 Binney Street, Cambridge, MA, United States of America ~72: BROWER, Kevin;COOLBAUGH, Michael;VARNER, Chad;VETTER, Tarl~ 33:US ~31:62/828,755 ~32:03/04/2019

2021/07090 ~ Complete ~54:FACILITY AND METHOD FOR ADVANCED NITROGEN REMOVAL FROM INDUSTRIAL WASTEWATER BY ANAMMOX ~71:BEIJING TANSI ENVIRONMENTAL PROTECTION TECHNOLOGY CO., LTD, 705-1, 7th Floor, Building 3, Fuhai Center, Daliushu, Haidian District, Beijing, 100081, People's Republic of China ~72: ANMING YANG;SHENG TIAN~ 33:CN ~31:202110117407.2 ~32:28/01/2021

2021/07079 ~ Complete ~54:FLUIDIZED BED APPARATUS ~71:DOOSAN LENTJES GMBH, Daniel-Goldbach-Strasse 19, Germany ~72: BROSCH, Björn;KARPINSKI, Andreas;KRÜLL, Ferdinand~ 33:DE ~31:19174197.4 ~32:13/05/2019

2021/07084 ~ Complete ~54:LIP FOR EXCAVATING BUCKET ~71:ESCO Group LLC, 2141 NW 25th Avenue, PORTLAND 97210-2578, OR, USA, United States of America ~72: CHURCHILL, Robin K.;ROSKA, Michael B.;WIDLUND, Ulf Daniel~ 33:US ~31:62/824,949 ~32:27/03/2019

2021/07087 ~ Complete ~54:FUSION SYSTEMS, INSTRUMENTS, BONE PLATES AND METHODS OF USE ~71:Paragon 28, Inc., 14445 Grasslands Drive, ENGLEWOOD 80112, CO, USA, United States of America ~72: BRINKER, Laura Zagrocki;DACOSTA, Albert;HUNT, Richard David;RAYMOND, Spanky~ 33:US ~31:62/812,132 ~32:28/02/2019

- APPLIED ON 2021/09/23 -

2021/07146 ~ Provisional ~54:BOOKMARK PRO ~71:Tumelo Peter Tshabalala, 860 Maseloane Street Zone 1,, South Africa ~72: Tumelo Peter Tshabalala~

2021/07101 ~ Complete ~54:COMPLEX STRUCTURE RELIABILITY DESIGN METHOD BASED ON HYBRID VECTOR SURROGATE MODEL ~71:Fudan University, No. 220, Handan Road, Yangpu District, Shanghai, 200433, People's Republic of China ~72: FEI, Chengwei;HAN, Lei;LU, Cheng~

2021/07122 ~ Complete ~54:EMERGENCY PERMISSION-STARTING COMMUNICATION DEVICE SYSTEM AND METHOD THEREFOR ~71:ZHUIXIN DIGITAL TECHNOLOGY CO., LTD., ZHANG, Jingmin Room 1-333, Building 19, Shanda North Road, Licheng District, Jinan, Shandong, 250000, People's Republic of China ~72: ZHANG, Jingmin~ 33:CN ~31:201911322026.7 ~32:20/12/2019

2021/07118 ~ Complete ~54:VERMICULAR CAST IRON ALLOY, COMBUSTION ENGINE BLOCK AND HEAD ~71:TUPY S.A., Rua Albano Schmidt, nº 3400 , Joinville, Santa Catarina, 89227-901, Brazil ~72: CARLOS DE SOUZA CABEZAS;EITAN MELLERAS;MARIA FURBINO MARTINS~ 33:BR ~31:BR 10 2020 019029 6 ~32:23/09/2020

2021/07112 ~ Complete ~54:TIAL COATING CAPABLE OF IMPROVING HIGH-TEMPERATURE OXIDATION RESISTANCE OF TITANIUM ALLOY AND PREPARATION METHOD THEREOF ~71:North China University of Technology, No.5 Jinyuanzhuang Road, Shijingshan District, Beijing, People's Republic of China ~72: Dong Zhichao;Li Hang;Ouyang Peixuan;Sun Wei;Yang Jinhe;Zhang Shuting~

2021/07131 ~ Complete ~54:FUSED BICYCLIC HETEROCYCLE DERIVATIVES AS PESTICIDES ~71:Bayer Aktiengesellschaft, Kaiser-Wilhelm-Allee 1, LEVERKUSEN 51373, GERMANY, Germany ~72: FISCHER, Rüdiger;GÖRGENS, Ulrich;HAGER, Dominik;HOFFMEISTER, Laura;ILG, Kerstin;LÖSEL, Peter;LINKA, Marc;TURBERG, Andreas;WILLOT, Matthieu;XIANG, Jing;ZHU, Yongkuan~ 33:IB ~31:2019/076145 ~32:26/02/2019 2021/07116 ~ Complete ~54:CONTAINMENT SHELL SIMULATION TEST APPARATUS ~71:China Nuclear Power Engineering Co., Ltd., No. 117 West Third Ring Road, Haidian District, BEIJING 100840, CHINA (P.R.C.), People's Republic of China ~72: DING, Ming;LI, Wei;MENG, Zhaoming;SUN, Zhongning;WANG, Hui;XING, Ji;YU, Yong;ZHANG, Nan~ 33:CN ~31:202011026079.7 ~32:25/09/2020

2021/07100 ~ Complete ~54:FERMENTED FEED FOR AQUATIC PRODUCTS AND PREPARATION METHOD AND APPLICATION THEREOF ~71:Foshan zhushui biology science technology co.ltd, No.1, Yinkeng village (Jiuyangang), Qingqiyuan, Xinan street, Sanshui distric, Foshan city, Guangdong province, People's Republic of China;Pearl River Fisheries Research Institute, NO.1, Xingyu road, Fang village, Xilong, Liwan district, Guangzhou city, Guangdong province, People's Republic of China ~72: Liang jianhui;Liao guoli;Lin Minghui~

2021/07108 ~ Complete ~54:ENGINEERING STRAIN FOR PRODUCING 2-HYDROXY-PHENAZINE AND USE THEREOF ~71:Qilu University of Technology, No. 3501 Daxue Road, Changqing District, Jinan, Shandong, 250353, People's Republic of China ~72: LI, Ling;LIU, Kaiquan;LV, Yandong;WANG, Ruiming;WANG, Tengfei~ 33:CN ~31:202011026637.X ~32:25/09/2020

2021/07123 ~ Complete ~54:DEVICES, SYSTEMS, AND METHODS FOR INSTALLING AND LOAD TESTING EARTH ANCHOR FOUNDATIONS ~71:BOGUESS, Brian C., 927 5th Street, Unit 6, Santa Monica, CA 90403, United States of America ~72: BOGUESS, Brian C.~ 33:US ~31:63/061,733 ~32:05/08/2020

2021/07114 ~ Complete ~54:SPREADER BEAM FOR HANDLING CONTAINERS ~71:PORT STEVEDORING (PTY) LTD, South Arm Road, D Berth, Duncan Dock, South Africa ~72: OLDEWAGE, David Fredrick~ 33:ZA ~31:2020/06497 ~32:20/10/2020

2021/07094 ~ Provisional ~54:MULTI-FUNCTIONAL DEVICE AND SYSTEM FOR VEHICLES ~71:ZINHLE MEDIA (PTY) LTD, 79 Plumbago Street, Country View Ext 2, South Africa ~72: MOLEFE, Rethabile;NOMVALO, Matlhasedi;RANTAO, Lebogang~

2021/07099 ~ Complete ~54:HIGH FIELD ASYMMETRIC ION MOBILITY SPECTROMETRY (FAIMS) CLASSIFICATION AND RECOGNITION METHOD, DEVICE AND EQUIPMENT THEREOF ~71:Henan Agricultural University, No. 95 Wenhua Road, Jinshui District, Zhengzhou City, Henan Province, 450002, People's Republic of China ~72: Hongbo Qiao;Hui Zhang;Jibo Yue;Liangliang Liu;Shufeng Xiong;Tong Sun;Xiaoyun Sun;Yuanyuan Fu;Ziteng Li~ 33:CN ~31:202110981213.7 ~32:25/08/2021

2021/07109 ~ Complete ~54:FEED CRUSHING DEVICE FOR PIG BREEDING ~71:INSTITUTE OF ANIMAL HUSBANDRY AND VETERINARY MEDICINE, SHANDONG ACADEMY OF AGRICULTURAL SCIENCES, NO. 202 INDUSTRIAL NORTH ROAD, People's Republic of China ~72: GUO, JIANFENG;LIN, HAICHAO;WANG, HUAIZHONG;ZHAO, XUEYAN~

2021/07121 ~ Complete ~54:CONTAINER CLOSURE ~71:ALPLA WERKE ALWIN LEHNER GMBH & amp; CO. KG, Allmendstrasse 81, Austria ~72: Mayer ERWIN~ 33:CH ~31:00516/19 ~32:05/04/2019;33:CH ~31:01467/19 ~32:20/11/2019;33:CH ~31:01695/19 ~32:23/12/2019

2021/07127 ~ Complete ~54:AUTOMATED SIMULTANEOUS PROCESS CONTROL ~71:Bayer Aktiengesellschaft, Kaiser-Wilhelm-Allee 1, LEVERKUSEN 51373, GERMANY, Germany ~72: BORCHERT, Sven-Oliver;BRANDT, Heiko;LOBEDANN, Martin;SCHWAN, Peter;WEBER, Nils~ 33:EP ~31:19159005.8 ~32:25/02/2019

2021/07135 ~ Complete ~54:VENTED PRODUCE PACK ~71:Oji Fibre Solutions (NZ) Limited, 289 Great South Road, Ellerslie, AUCKLAND 1051, NEW ZEALAND, New Zealand ~72: EAST, Andrew Richard;LENTING, Gerhard Francis Dio;MARTINEZ, Gonzalo~ 33:NZ ~31:752010 ~32:26/03/2019

2021/07115 ~ Complete ~54:A FIBRE RELAY UNIT ~71:VODACOM (PTY) LTD., 082 Vodacom Boulevard, MIDRAND 1682, Gauteng, SOUTH AFRICA, South Africa ~72: BUITENDACH, Albertus;PIENAAR, Vernon~ 33:ZA ~31:2020/07469 ~32:01/12/2020

2021/07097 ~ Provisional ~54:A DEVICE FOR CARRYING TABLEWARE ~71:Wietzie Gunther, 8 Leyden Street, South Africa ~72: Wietzie Gunther~

2021/07106 ~ Complete ~54:PHARMACEUTICAL COMPOSITION FOR TREATING ALZHEIMER'S DISEASE ~71:Xinxiang Medical University, Xinxiang Medical University, No. 601, Jinsui Road, Xinxiang, Henan Province, 453003, People's Republic of China ~72: JIANG, Li;PAN, Guopin;SUN, Ruili;YIN, Qingfeng;YIN, Yaling;ZHAO, Fanrong;ZHU, Moli~

2021/07110 ~ Complete ~54:ELECTRICALLY-POWERED AEROSOL DELIVERY SYSTEM ~71:R. J. REYNOLDS TOBACCO COMPANY, 401 North Main Street, Winston-Salem, United States of America ~72: ADEME, Balager;DAVIS, Michael F.;HUBBARD, Sawyer Austin;SEARS, Stephen Benson;TALUSKIE, Karen V.~ 33:US ~31:14/950,724 ~32:24/11/2015

2021/07117 ~ Complete ~54:NUTRITION ~71:DIPLAL, Sheetal, 1 Aurora Drive, 42 Horizon Views, Umhlanga Ridge 4319, KwaZulu-Natal, SOUTH AFRICA, South Africa ~72: DIPLAL, Sheetal~ 33:ZA ~31:2020/06000 ~32:29/09/2020

2021/07124 ~ Complete ~54:METHODS OF TREATING NEGATIVE SYMPTOMS OF SCHIZOPHRENIA USING DEUTERATED DEXTROMETHORPHAN AND QUINIDINE ~71:AVANIR PHARMACEUTICALS, INC., 30 Enterprise, Suite 200, United States of America ~72: DUBÉ, Sanjay~ 33:US ~31:62/820,142 ~32:18/03/2019

2021/07140 ~ Complete ~54:APPARATUS AND METHOD RELATING TO MANAGED PRESSURE DRILLING ~71:OIL STATES INDUSTRIES (UK) LIMITED, Site E6, Moss Road, Gateway Business Park, Nigg, Aberdeen, Aberdeenshire, AB12 3GQ, United Kingdom ~72: MIGUEL FERNANDES MARTINS;RICHARD JOHNSTON~ 33:GB ~31:1906260.3 ~32:03/05/2019;33:GB ~31:1906364.3 ~32:06/05/2019

2021/07144 ~ Complete ~54:MOVING BED BIOFILM REACTOR COUPLED AMMOXIDATION INTEGRATED PURIFICATION TANK ~71:JIANGSU LINGZHI ENVIRONMENTAL PROTECTION CO., LTD, Nanxin East Road, Heqiao Town, Yixing City, Wuxi, Jiangsu, 214200, People's Republic of China;JIANGSU LINGZHI ENVIRONMENTAL PROTECTION EQUIPMENT CO., LTD, No. 9 Guangdong Road,, Binhai New District,, Haimen City,, Nantong, Jiangsu, 214200, People's Republic of China;LINGZHI ENVIRONMENTAL PROTECTION (LINQUAN) CO., LTD, Economic Development Zone In Linquan County,, Fuyang, Anhui, 214200, People's Republic of China;LINGZHI ENVIRONMENTAL PROTECTION CO., LTD, Nanxin East Road, Heqiao Town,, Yixing City,, Wuxi, Jiangsu, 214200, People's Republic of China ~72: LING, Jianjun;ZHANG, Dong~ 33:CN ~31:201911123537.6 ~32:17/11/2019

2021/07132 ~ Complete ~54:GRAPHENE FUNCTIONALIZATION METHOD, APPARATUS, AND FUNCTIONALIZED GRAPHENE PRODUCT ~71:United Kingdom Research and Innovation, Polaris House, North Star Avenue, SWINDON SN2 1FL, WILTSHIRE, UNITED KINGDOM, United Kingdom ~72: CATTERMOLE, David;NAYDENOVA, Katerina;PALMER, Chris;PEET, Mathew;RUSSO, Christopher;SCOTCHER, Steve~ 33:GB ~31:1904187.0 ~32:26/03/2019

2021/07139 ~ Complete ~54:METHODS AND COMPOSITIONS FOR TREATING CANCER ~71:FUSION PHARMACEUTICALS INC., 270 Longwood Road South, Hamilton, Ontario, L8P 0A6, Canada ~72: GRAEME CURRIE~ 33:US ~31:62/812,929 ~32:01/03/2019;33:US ~31:62/856,216 ~32:03/06/2019;33:US ~31:62/907,504 ~32:27/09/2019 2021/07125 ~ Complete ~54:SYSTEM FOR NON-INVASIVE EXAMINATION OF BLOOD ENVIRONMENT PARAMETERS ~71:DIGITAL BLOOD CORPORATION, 150 SE 2nd Ave. Suite 308, United States of America ~72: KAZAR, Pavel~ 33:US ~31:62/810,927 ~32:26/02/2019

2021/07133 ~ Complete ~54:AEROSOL PROVISION SYSTEM ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: MOLONEY, Patrick~ 33:GB ~31:1904842.0 ~32:05/04/2019

2021/07138 ~ Complete ~54:PITCHING MACHINE AND BATTING BAY SYSTEMS ~71:HOME RUN DUGOUT LLC, 3500 E. Palm Valley Boulevard Box 2 , Round Rock, Texas, 78665, United States of America ~72: JOHN KEVIN GENTRY;LAUREN WEST;NICHOLAS S HERMANDORFER;RODNEY D MURAS;SCOTT HUDSON;TYLER L BAMBRICK~ 33:US ~31:62/822,624 ~32:22/03/2019;33:US ~31:62/823,548 ~32:25/03/2019

2021/07142 ~ Complete ~54:REVERSIBLE COATING OF CHITOSAN-NUCLEIC ACID NANOPARTICLES AND METHODS OF THEIR USE ~71:ENGENE, INC., 7171 Frederick-Banting, Montreal, Quebec, H4S 1Z9, Canada ~72: ANTHONY CHEUNG;CARLOS FLEET;DANIEL VEILLEUX;NATALIE CHIN MUN TAM;PEI LIAN MA;RAJESH KRISHNAN GOPALAKRISHNA PANICKER~ 33:US ~31:62/818,425 ~32:14/03/2019;33:US ~31:62/923,403 ~32:18/10/2019;33:US ~31:62/924,131 ~32:21/10/2019

2021/07105 ~ Complete ~54:WOODCUT PRINT AND PREPARATION METHOD THEREOF ~71:Shandong Yingcai University, No.2, Yingcai Road, High Technological Industrial Development Zone, Ji'nan, Shandong, People's Republic of China ~72: Chen Zhaoguo~

2021/07143 ~ Complete ~54:EXPRESSION OF NITROGENASE POLYPEPTIDES IN PLANT CELLS ~71:COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION, Clunies Ross St, Acton, Australian Capital Territory, 2601, Australia ~72: AMRATHA MENON;ANDREW CHARLES WARDEN;CHRISTINA MARIA GREGG;CRAIG CHRISTOPHER WOOD;MATTHEW CRAIG TAYLOR;ROBERT SILAS ALLEN;SHOKO OKADA~ 33:AU ~31:2019900780 ~32:08/03/2019;33:AU ~31:2019903818 ~32:10/10/2019;33:AU ~31:2020900689 ~32:05/03/2020

2021/07095 ~ Provisional ~54:SCREENING DEVICE ~71:SASOL MINING (PTY) LIMITED, Sasol Place, 50 Katherine Street, Sandton, Gauteng, 2090, South Africa ~72: ODELL, Gregory Bruce~

2021/07098 ~ Complete ~54:PSEUDOMONAS CHLORORAPHIS QOHPHZ-8 FOR PRODUCING 1-HYDROXY-PHENAZINE (1-OH-PHZ) AND USE THEREOF ~71:Qilu University of Technology, No.3501 Daxue Road, Changqing District, Jinan, Shandong, 250353, People's Republic of China ~72: LI, Ling;LI, Piwu;LIU, Kaiquan;WANG, Ruiming;WANG, Tengfei~ 33:CN ~31:202011024003.0 ~32:25/09/2020

2021/07103 ~ Complete ~54:DEVICE AND METHOD FOR EXTRACTING MICROPLASTICS IN SOIL OF PINUS MASSONIANA LAMB. WOODLAND ~71:Guizhou Academy of Sciences, No.40 Yan'an East Road, Guiyang City, Guizhou Province, People's Republic of China;Guizhou University, No.2708, South Section of Huaxi Avenue, Huaxi District, Guiyang City,, Guizhou Province, People's Republic of China ~72: Ai Xiangling;Ding Guijie;Huang Xianfei;Zhang Jiachun;Zhang Zhenming;Zhou Xinwei;Zhou Yunchao~

2021/07113 ~ Complete ~54:VARICOSE VEIN REHABILITATION TRAINING DEVICE FOR VASCULAR SURGERY ~71:West China Hospital, Sichuan University, Guoxue Lane #37, Wuhou District, Chengdu, Sichuan, People's Republic of China ~72: Wu Zhoupeng;Xiang Yuwei~

2021/07134 ~ Complete ~54:TAPE WINCH, DRILLING PROGRESS MEASUREMENT AND HOLE DEPTH MEASUREMENT ~71:Globaltech Corporation Pty Ltd, 1st Floor, 883 Abernethy Road, FORRESTFIELD 6058,

WESTERN AUSTRALIA, AUSTRALIA, Australia ~72: HILL, Raymond;STEWART, Gordon~ 33:AU ~31:2019900616 ~32:27/02/2019

2021/07104 ~ Complete ~54:NURSING DEVICE USED AFTER BONE FLAP DECOMPRESSIVE CRANIECTOMY ~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: He Caixia;Huang Cuimai;Lu Qixiang;Meng Yu;Wang Jianyuan~

2021/07111 ~ Complete ~54:KENAF SEED-FERTILIZER SEPARATION SOWING MACHINE ~71:Zhejiang Academy of Agricultural Sciences, 298 Desheng Middle Road,, Shangcheng District, , Hangzhou City, Zhejiang Province , 310021, 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;JIN, Guanrong;LI, Wenlue;LIN, Tianbao;LIU, Tingting;LUO, Xiahong;ZHU, Guanlin~

2021/07130 ~ Complete ~54:CONDENSED BICYCLIC HETEROCYCLIC DERIVATIVES AS PEST CONTROL AGENTS ~71:Bayer Aktiengesellschaft, Kaiser-Wilhelm-Allee 1, LEVERKUSEN 51373, GERMANY, Germany ~72: FISCHER, Rüdiger;HAGER, Dominik;HOFFMEISTER, Laura;ILG, Kerstin;LÖSEL, Peter;WILLOT, Matthieu;ZHERSH, Sergey~ 33:EP ~31:19159323.5 ~32:26/02/2019

2021/07137 ~ Complete ~54:SAFETY FOR VEHICLE USERS ~71:CAMBRIDGE MOBILE TELEMATICS INC., 314 Main Street, Suite 1200, Cambridge, Massachusetts, 02142, United States of America ~72: BEN BOWNE;HARI BALAKRISHNAN;JAMES E HICKS JR;KATHERINE WELLMAN;LEWIS DAVID GIROD;SAMUEL ROSS MADDEN~ 33:US ~31:62/823,811 ~32:26/03/2019;33:US ~31:16/407,502 ~32:09/05/2019;33:US ~31:16/451,193 ~32:25/06/2019

2021/07119 ~ Complete ~54:GENETICALLY ENGINEERED STRAIN FOR HIGH PRODUCTION OF PHENAZINE-1-CARBOXYLIC ACID (PCA), AND CONSTRUCTION METHOD AND USE THEREOF ~71:Qilu University of Technology, No.3501 Daxue Road, Changqing District, Jinan, Shandong, 250353, People's Republic of China ~72: LI, Ling;LI, Piwu;LIU, Kaiquan;WANG, Ruiming;WANG, Tengfei~ 33:CN ~31:202011026544.7 ~32:25/09/2020

2021/07129 ~ Complete ~54:COMBINATION THERAPIES AND PATIENT STRATIFICATION WITH BISPECIFIC ANTI-EGFR/C-MET ANTIBODIES ~71:Janssen Biotech, Inc., 800/850 Ridgeview Drive, HORSHAM 19044, PA, USA, United States of America ~72: MOORES, Sheri;VIJAYARAGHAVAN, Smruthi~ 33:US ~31:62/810,716 ~32:26/02/2019;33:US ~31:62/930,190 ~32:04/11/2019

2021/07136 ~ Complete ~54:GYRATION-TYPE CRUSHER ~71:KABUSHIKI KAISHA EARTHTECHNICA, 2-4, Kandajinbo-cho, Chiyoda-ku, Tokyo, 1010051, Japan ~72: AKIMASA KOGA;ATSUSHI OYAMA;TAKASHI KIJIMA;YOSHICHIKA SATO~

2021/07200 ~ Complete ~54:STABLE WRAPPER FOR AEROSOL GENERATING ARTICLE ~71:PHILIP MORRIS PRODUCTS S.A., Quai Jeanrenaud 3, Switzerland ~72: JOYEUX, Thierry~ 33:EP ~31:19179241.5 ~32:10/06/2019

2021/07102 ~ Complete ~54:SAFETY VEST BOUND IN WHEELCHAIRS ~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;Lu Qixiang;Meng Yu;Wang Jianyuan~

2021/07120 ~ Complete ~54:INSULATING ELEMENT, IN PARTICULAR STRIP, METHOD OF INSPECTION OF WELDS AND MELTING OF INSULATING ELEMENTS AND CONTROL SYSTEM OF WELDS AND MELTING OF INSULATING ELEMENTS ~71:A.W.A.L. S.R.O., Eliášova 393/20, Czech Republic ~72: MISAR, Ivan;NOVOTNÝ, Marek;PELECH, Marcel~ 33:CZ ~31:PUV 2019-36081 ~32:03/04/2019

2021/07126 ~ Complete ~54:ELECTROMAGNETIC RELEASE HOPPING ROBOT, BADMINTON ROBOT AND ELECTROMAGNETIC RELEASE HOPPING MECHANISM ~71:ZHEJIANG WANLI UNIVERSITY, No. 8, South QianHu Road Ningbo, People's Republic of China ~72: HUAN, Honglun;LIU, Min~ 33:CN ~31:201910863979.8 ~32:12/09/2019

2021/07128 ~ Complete ~54:PYRAZOLOPYRIDINE DERIVATIVES AS INHIBITORS OF PASK ~71:Galapagos NV, Generaal De Wittelaan L11/A3, MECHELEN 2800, BELGIUM, Belgium ~72: BEAUMONT, Stéphane Nicolas Alain;BOCK, Xavier Marie;COMAS MARTINEZ, Daniel;JONCOUR, Agnès Marie;LÓPEZ RAMOS, Miriam;LABÉGUÈRE, Frédéric Gilbert;TEMAL-LAÏB, Taoues~ 33:GB ~31:1902490.0 ~32:25/02/2019

2021/07141 ~ Complete ~54:CHITOSAN POLYPLEX-BASED LOCALIZED EXPRESSION OF IL-12 ALONE OR IN COMBINATION WITH TYPE-I IFN INDUCERS FOR TREATMENT OF MUCOSAL CANCERS ~71:ENGENE, INC., 7171 Frederick-Banting, Montreal, Quebec, H4S 1Z9, Canada ~72: ANTHONY CHEUNG;CARLOS FLEET;DANIEL VEILLEUX;JOSE LORA;NATALIE CHIN MUN TAM;PEI LIAN MA;RAJESH KRISHNAN GOPALAKRISHNA PANICKER;SHAUNA DAUPHINEE;XIMIN CHEN~ 33:US ~31:62/818,425 ~32:14/03/2019;33:US ~31:62/923,403 ~32:18/10/2019;33:US ~31:62/924,131 ~32:21/10/2019

2021/07096 ~ Provisional ~54:A COMPETITION SYSTEM ~71:THEDI, Thabiso Tshidiso, 19 JEANNE HOWES PLACE, WATERFALL, DURBAN, South Africa ~72: THEDI, Thabiso Tshidiso~

2021/07107 ~ Complete ~54:DUAL MODE VEHICLE THAT OPERATES ON BOTH GUIDED RAILS AND UNGUIDED ROADWAYS ~71:Owen G. Drake, 1230 Garden Lane, Fortuna, CA 95540, United States of America ~72: Owen G. Drake~ 33:US ~31:17/125,259 ~32:17/12/2020

Application Number	Assignor	Assignee
2008/06402	MILLENNIUM PHARMACEUTICALS, INC.	TAKEDA PHARMACEUTICALCOMPANY LIMITED
2007/01509	ANNEX A	MSP MINE SUPPORT PRODUCTS (PTY) LTD.
2016/00235	BIOFILTRO S.P.A.	BIOFILTRO USA, INC.
2016/06532	NATIONAL UNIVERSITY CORPORATION SAITAMA UNIVERSITY	PUBLIC UNIVERSITY CORPORATION YOKOHAMA CITY UNIVERSITY
2018/03509	INSECT TECHNOLOGY GROUP RESEARCH UK LIMITED	PREZERO US, INC.
2010/00482	MILLENNIUM PHARMACEUTICALS, INC.	TAKEDA PHARMACEUTICAL COMPANY LIMITED
2018/04275	HERMES ARZNEIMITTEL GMBH	HERMES PHARMA GMBH
2009/09042	MASTERCARD ASIA/PACIFIC PTE. LTD.	UKHESHE TECHNOLOGIES PROPRIETARY LIMITED
2009/00259	DOGWOOD	ALLERGAN SALES, LLC

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

Application Number	Assignor	Assignee
	PHARMACEUTICALS INC	
2018/04330		KUNG BIOTHERAPEUTICS B V
2017/01281		
2017/01201	NOW INNOVATIONS (FTT) ETD	LTD
2013/01790	MASTERCARD ASIA/PACIFIC	UKHESHE TECHNOLOGIES
	PTE. LTD.	PROPRIETARY LIMITED
2016/05434	ANDREA BARAUSSE	BARAUSSE FAMILY TRUST
2016/05434	ANDREA BARAUSSE	THE TRUSTEES FOR THE TIME BEING OF
		THE BARAUSSE FAMILY TRUST
2004/08305	MSP MINE SUPPORT	MSP MINE SUPPORT PRODUCTS (PTY)
	PRODUCTS (PTY) LTD	LTD.
2005/08458	MSP MINE SUPPORT	MSP MINE SUPPORT PRODUCTS (PTY)
	PRODUCTS (PTY) LTD	LTD.
2005/07218	MSP MINE SUPPORT	MSP MINE SUPPORT PRODUCTS (PTY)
	PRODUCTS (PTY) LTD	LTD.
2005/09919	MSP MINE SUPPORT	MSP MINE SUPPORT PRODUCTS (PTY)
	PRODUCTS (PTY) LTD	LTD.
2007/03351	MSP MINE SUPPORT	MSP MINE SUPPORT PRODUCTS (PTY)
2007/00001	PRODUCTS (PTY) LTD	LTD.
2005/07039	MSP MINE SUPPORT	MSP MINE SUPPORT PRODUCTS (PTY)
2000,01000	PRODUCTS (PTY) LTD	LTD.
2005/00754	MSP MINE SUPPORT	MSP MINE SUPPORT PRODUCTS (PTY)
2000,00101	PRODUCTS (PTY) LTD	LTD.
2005/09411	MSP MINE SUPPORT	MSP MINE SUPPORT PRODUCTS (PTY)
	PRODUCTS (PTY) LTD	LTD.
2015/01104	MSP MINE SUPPORT	MSP MINE SUPPORT PRODUCTS (PTY)
	PRODUCTS (PTY) LTD	LTD.
2013/06359	MSP MINE SUPPORT	MSP MINE SUPPORT PRODUCTS (PTY)
	PRODUCTS (PTY) LTD	LTD.
2004/00568	CHEVRON U.S.A. INC.	SASOL TECHNOLOGY (PROPRIETARY)
		LIMITED
2001/09185	CHEVRON U.S.A. INC.	SASOL TECHNOLOGY (PROPRIETARY)
		LIMITED
2003/05034	CHEVRON U.S.A. INC.	SASOL TECHNOLOGY (PROPRIETARY)
		LIMITED
2004/02767	CHEVRON U.S.A. INC.	SASOL TECHNOLOGY (PROPRIETARY)
		LIMITED
2006/00310	CHEVRON U.S.A. INC.	SASOL TECHNOLOGY (PROPRIETARY)
		LIMITED
2004/09131	MILLENNIUM	TAKEDA PHARMACEUTICAL COMPANY
	PHARMACEUTICALS, INC.	LIMITED
2016/05342	DYAX CORP.	TAKEDA PHARMACEUTICAL COMPANY
		LIMITED
2014/07723	MILLENNIUM	TAKEDA PHARMACEUTICAL COMPANY
	PHARMACEUTICALS, INC.	LIMITED
2020/04214	TSINGHUA UNIVERSITY	GUANGDONG TSINGDA SMART BIOTECH
		CO., LTD.
2015/04987	MERCK SERONO S.A.	APITOPE TECHNOLOGY (BRISTOL)
		LIMITED
2015/04987	APITOPE INTERNATIONAL NV	APITOPE TECHNOLOGY (BRISTOL)
		LIMITED
2014/02774	GENERAL ELECTRIC COMPANY	BL TECHNOLOGIES, INC.

Application Number	Assignor	Assignee
2013/07858	IP2IPO INOVATIONS LIMITED	IMPERIAL COLLEGE INNOVATIONS
2017/07107	AZAMOUR INVESTMENT CORPORATION INCORPORATED	MAGNEVANE PORTUGAL LDA.
2016/01564	ABB SSCHWEIZ AG	ABB POWER GRIDS SWITZERLAND AG
2014/03515	MILLENNIUM PHARMACEUTICALS INC.	TAKEDA PHARMACEUTICAL COMPANY LIMITED
2014/04298	WINDFLOW TECHNOLOGY LIMITED	SYNCWIND POWER LIMITED
2014/04213	INVICO AB	SUNPINE AB
2019/03647	NICOVENTURES HOLDINGS	NICOVENTURES TRADING LIMITED
2013/04767	MSP MINE SUPPORT PRODUCTS (PTY) LTD	MSP MINE SUPPORT PRODUCTS (PTY) LTD.
2020/03699	MICROSOFT TECHNOLOGY LICENSING	ZENIMAX MEDIA INC.
2019/07683	MICROSOFT TECHNOLOGY	ZENIMAX MEDIA INC.
2019/07682	MICROSOFT TECHNOLOGY	ZENIMAX MEDIA INC.
2019/07686	MICROSOFT TECHNOLOGY	ZENIMAX MEDIA INC.
2019/07681	MICROSOFT TECHNOLOGY	ZENIMAX MEDIA INC.
2019/07680	MICROSOFT TECHNOLOGY	ZENIMAX MEDIA INC.
2020/03698	MICROSOFT TECHNOLOGY	ZENIMAX MEDIA INC.
2015/07604	SHIRE VIROPHARMA LLC	VIROPHARMA BIOLOGICS LLC
2017/06929	SHIRE VIROPHARMA LLC	VIROPHARMA BIOLOGICS LLC
2018/06793	SHIRE VIROPHARMA LLC	VIROPHARMA BIOLOGICS LLC
2014/02145	ESBATECH, A NOVARTIS COMPANY LLC	NOVARTIS AG
2020/06532	ESBATECH, a NOVARTIS COMPANY LLC	NOVARTIS AG
2017/06443	ESBATECH, A NOVARTIS COMPANY LLC	NOVARTIS AG
2018/00424	NOVARTIS AG	ARRAY BIOPHARMA INC.
2015/06693	NOVARTIS AG	ARRAY BIOPHARMA INC.
2019/05702	ZEALOCO (PTY) LTD	VAN DER MERWE, SCHALK MUNNIK
2015/05110	BAYER ANIMAL HEALTH GMBH	VETOQUINOL SA
2021/02178	PRETORIUS, GERARD	AFRICAN RAINBOW MINERALS LIMITED
2020/00608	TIZONA THERAPEUTICS	TRISHULA THERAPEUTICS, INC.
2020/05988	BLACK BELT TX LTD	PRAXIS BIOTECH LLC
2021/01665	MEDSHINE DISCOVERY INC.	CHIA TAI TIANGING PHARMACEUTICAL GROUP CO., LTD.
2021/02166	PRETORIUS, GERARD	AFRICAN RAINBOW MINERALS LIMITED
2009/05923	ADVANCED IMAGING TECHNOLOGIES (PROPRIETARY) LIMITED	CONTITECH SERVICES (PTY.) LTD
2008/04717	ANTHROGENESIS	CLARITY ACQUISITION II, LLC

Application Number	Assignor	Assignee
	CORPORARTION	
2009/05927	ADVANCED IMAGING TECHNOLOGIES (PROPRIETARY) LIMITED	CONTITECH SERVICES (PTY.) LTD.
2012/07492	ANTHROGENESIS CORPORARTION	CLARITY ACQUISITION II, LLC
2008/05794	ANTHROGENESIS CORPORARTION	CLARITY ACQUISITION II, LLC
2008/03929	ANTHROGENESIS CORPORARTION	CLARITY ACQUISITION II, LLC
2009/00956	ANTHROGENESIS CORPORARTION	CLARITY ACQUISITION II, LLC
2008/03930	ANTHROGENESIS CORPORARTION	CLARITY ACQUISITION II, LLC
2008/04718	ANTHROGENESIS CORPORARTION	CLARITY ACQUISITION II, LLC
2011/06982	ANTHROGENESIS CORPORARTION	CLARITY ACQUISITION II, LLC
2004/06356	ANTHROGENESIS CORPORARTION	CLARITY ACQUISITION II, LLC
2011/01210	ANTHROGENESIS CORPORARTION	CLARITY ACQUISITION II, LLC
2010/03057	ANTHROGENESIS CORPORARTION	CLARITY ACQUISITION II, LLC
2003/06271	ANTHROGENESIS CORPORARTION	CLARITY ACQUISITION II, LLC
2010/02302	ANTHROGENESIS CORPORARTION	CLARITY ACQUISITION II, LLC
2006/08755	SAMYANG BIOPHARMACEUTICALS CORPORATION	SAMYANG HOLDINGS CORPORATION
2010/08539	ANTHROGENESIS CORPORARTION	CLARITY ACQUISITION II, LLC
2010/04182	ANTHROGENESIS CORPORARTION	CLARITY ACQUISITION II, LLC
2010/08540	ANTHROGENESIS CORPORARTION	CLARITY ACQUISITION II, LLC
2010/02304	ANTHROGENESIS CORPORARTION	CLARITY ACQUISITION II, LLC
2010/05391	INTELLIKINE LLC	TAKEDA PHARMACEUTICAL COMPANY LIMITED
2009/02485	ANTHROGENESIS CORPORARTION	CLARITY ACQUISITION II, LLC
2009/05374	ANTHROGENESIS CORPORARTION	CLARITY ACQUISITION II, LLC
2009/05376	ANTHROGENESIS CORPORARTION	CLARITY ACQUISITION II, LLC
2010/05911	ADIENT LUXEMBOURG HOLDING S.A.R.L.	ADIENT YANFENG SEATING MECHANISMS CO., LTD.
2016/00511	GUANGDONG XIANGXUE LIFE SCIENCES, LTD.	XLIFESC, LTD.
2012/07534	ANTHROGENESIS	CLARITY ACQUISITION II, LLC

Application Number	Assignor	Assignee
	CORPORARTION	
2008/09327	VISTAKON PHARMACEUTICALS, LLC	JOHNSON & JOHNSON VISION CARE INC.
2016/06922	ANTHROGENESIS CORPORARTION	CLARITY ACQUISITION II, LLC
2016/05568	ANTHROGENESIS CORPORARTION	CLARITY ACQUISITION II, LLC
2016/06733	ANTHROGENESIS CORPORARTION	CLARITY ACQUISITION II, LLC
2012/01067	ANTHROGENESIS CORPORARTION	CLARITY ACQUISITION II, LLC
2012/00969	ANTHROGENESIS CORPORARTION	CLARITY ACQUISITION II, LLC
2021/02264	SHENYANG SINOCHEM AGROCHEMICALS R&D CO., LTD.	JIANGSU YANGNONG CHEMICAL CO., LTD.
2012/07196	BARNETT, ROBERT NICHOLAS	IMINING (PTY) LTD
2018/06956	AJO INDUSTRIE S.A.R.L.	CPPE CARBON PROCESS & PLANT ENGINEERING S.A.
2005/04319	ARCOSA, INC.	MCCONWAY & TORLEY, LLC
2020/07428	OMNICO (PTY) LIMITED	RI INVESTMENTS (PTY) LTD
2021/00446	TIMOTHY ROY HANSEN	BD KIESTRA B.V.
2016/03586	SUPRASENSOR TECHNOLOGIES, LLC	SUPRASENSOR ENTERPRISES, INC.
2016/03586	SUPRASENSOR ENTERPRISES, INC.	THE CLIMATE CORPORATION
2003/03353	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2005/02919	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2005/03019	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2005/03977	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2006/07841	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2008/01779	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2008/01780	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2008/01781	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2008/01782	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2008/01783	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2008/01784	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2008/01785	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2008/01786	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2008/01787	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2009/01555	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2010/03931	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2011/03003	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2012/03720	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2013/01711	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2013/04277	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2013/04510	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2013/08549	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2014/08754	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.

Application Number	Assignor	Assignee
2014/08901	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2014/09284	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2014/09332	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2015/00086	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2015/00703	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2015/04275		UNILEVER IP HOLDINGS B.V.
2016/03588	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2017/01857	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2017/02206		UNILEVER IP HOLDINGS B.V.
2017/03199	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2017/03610	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2017/07642	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2017/08392	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2018/00507	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2018/00607	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2018/00489	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2018/00490	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2018/00882	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2018/01360	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2018/02385	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2018/02386	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2018/02137	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2018/02138	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2018/02139	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2018/03562	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2018/03564	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2018/06717	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2018/06742	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2018/06688	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2018/07823	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2019/00379	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2019/02802	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2019/03415	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2019/03812	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2019/03891	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2019/03952	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2019/03953	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2019/04064	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2019/04065	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2019/04429	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2019/04526	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2019/05498	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2019/05752	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2019/06622	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2020/02682	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2020/03292	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2020/03479	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2020/04703	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2020/04788	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2020/05107	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.

Application Number	Assignor	Assignee
2020/06940	UNILEVER PLC	UNILEVER IP HOLDINGS B.V.
2003/05119	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2003/05174	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2003/09676	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2004/00029	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2004/02665	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2004/03677	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2004/08750	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2004/08985	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2004/08986	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2004/08987	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2005/00057	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2005/00241	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2005/01212	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2005/02000	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2005/03796	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2005/03921	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2005/03923	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2005/05997	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2005/09714	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2006/01085	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2006/02583	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2006/02874	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2006/03164	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2006/03520	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2006/03624	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2006/03625	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2006/03871	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2006/05700	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2006/07017	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2006/08313	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2006/08320	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2006/08620	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2006/09589	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2006/10026	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2007/00141	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2007/00568	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2007/00569	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2007/00570	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2007/00571	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2007/00572	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2007/00907	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2007/01617	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2007/01618	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2007/01619	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2007/01947	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2007/02420	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2007/05665	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2007/05986	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2007/07282	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED

Application Number	Assignor	Assignee
2007/07968	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2007/09010	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2007/09243	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2007/09293	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2008/00268	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2008/00902	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2008/00912	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2008/01174	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2008/02245	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2008/02597	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2008/03411	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2008/03523	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2008/03524	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2008/04205	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2008/04295	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2008/04678	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2008/05465	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2008/05796	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2008/06185	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2008/06805	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2008/07355	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2008/07945	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2008/09497	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2009/00158	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2009/01396	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2009/02458	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2009/04947	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2009/05141	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2009/06773	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2009/07500	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2009/07671	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2009/07783	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2009/07890	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2009/08137	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2009/08388	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2010/00215	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2010/00984	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2010/01428	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2010/01429	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2010/01723	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2010/02992	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2010/03053	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2010/04728	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2010/05206	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2010/05764	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2010/05908	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2010/06624	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2010/06625	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2010/07089	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2010/07320	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED

Application Number	Assignor	Assignee
2010/07321	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2010/07323	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2010/07953	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2010/08356	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2010/08792	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2010/08832	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2010/08833	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2010/08834	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2010/08835	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2010/08836	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2010/08837	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2010/08965	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2010/08967	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2010/09012	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2011/00531	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2011/01096	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2011/01783	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2011/02078	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2011/02641	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2011/02725	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2011/02726	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2011/02727	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2011/03120	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2011/03122	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2011/03526	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2011/03715	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2011/03716	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2011/03801	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2011/04223	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2011/04705	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2011/04790	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2011/05253	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2011/05527	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2011/06050	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2011/06078	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2011/07403	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2011/07439	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2011/07627	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2011/07769	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2011/07838	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2011/07839	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2011/08382	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2011/08912	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2011/08987	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2012/00442	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2012/00541	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2012/00581	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2012/00946	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2012/01831	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2012/01834	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED

Application Number	Assignor	Assignee
2012/02261	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2012/02752	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2012/03039	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2012/03722	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2012/03977	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2012/04573	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2012/04927	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2012/04931	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2012/04961	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2012/05562	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2012/05908	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2012/06787	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2012/07037	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2012/07082	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2012/07561	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2012/07810	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2012/08409	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2012/08756	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2012/08939	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2012/09076	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2012/09146	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2012/09483	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/00017	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/00018	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/00073	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/00074	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/00376	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/00377	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/00378	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/00571	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/00952	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/01321	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/01491	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/01494	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/01714	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/01715	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/01716	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/02069	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/02293	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/02294	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/02295	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/02296	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/02297	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/02298	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/02299	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/02300	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/02302	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/02303	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/02304	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/02306	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED

Application Number	Assignor	Assignee
2013/02307	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/02461	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/02505	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/02506	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/02655	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/03691	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/03878	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/03954	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/04274	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/04275	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/04276	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/04509	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/04736	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/04929	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/05194	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/05195	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/05196	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/05569	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/05746	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/05939	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/05940	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/06264	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/06447	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/06743	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/06985	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/07327	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/07328	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/07505	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/07506	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/07834	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/07835	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/08166	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/08383	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/08886	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/09153	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/09449	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2013/09450	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2014/00796	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2014/00797	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2014/00849	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2014/01260	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2014/01473	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2014/01474	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2014/02193	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2014/02430	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2014/02433	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2014/02583	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2014/02584	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2014/02588	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2014/02941	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED

Application Number	Assignor	Assignee
2014/03381	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2014/03382	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2014/03694	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2014/03695	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2014/03699	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2014/03700	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2014/03701	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2014/03703	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2014/04034	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2014/04162	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2014/04163	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2014/04303	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2014/05156	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2014/05161	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2014/06104	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2014/06105	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2014/06106	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2014/06107	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2014/06674	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2014/06871	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2014/07180	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2014/07290	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2014/07291	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2014/07292	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2014/07332	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2014/07337	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2014/07628	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2014/07631	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2014/07637	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2014/08342	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2014/08343	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2014/08344	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2014/08353	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2014/09017	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2014/09277	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2014/09406	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2015/00214	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2015/00291	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2015/00456	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2015/00514	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2015/00518	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2015/00519	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2015/00520	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2015/00603	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2015/00776	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2015/01109	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2015/01935	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2015/02219	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2015/02462	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2015/02548	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED

Application Number	Assignor	Assignee
2015/02941	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2015/02942	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2015/02943	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2015/03132	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2015/03324	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2015/03707	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2015/03708	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2015/04007	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2015/04118	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2015/04119	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2015/04444	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2015/04557	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2015/04595	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2015/04604	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2015/05017	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2015/05403	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2015/05404	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2015/05711	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2015/06534	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2015/06537	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2015/06589	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2015/06619	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2015/07199	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2015/07331	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2015/07766	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2015/07767	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2015/07768	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2015/07791	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2015/08009	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2015/08127	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2015/08128	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2015/09189	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2015/09193	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2015/09134	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2016/00130	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2016/00318	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2016/00319	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2016/00535	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2016/00536	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2016/00569	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2016/00892	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2016/02261	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2016/02667	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2016/02848	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2016/03128	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2016/03341	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2016/03346	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2016/03347	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2016/03348	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2016/03428	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED

Application Number	Assignor	Assignee
2016/03892	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2016/03971	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2016/03974	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2016/04566	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2016/04790	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2016/04791	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2016/05635	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2016/06264	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2016/06389	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2016/06391	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2016/06451	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2016/07070	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2016/07105	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2016/07156	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2016/07539	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2016/07932	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2016/08048	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2016/0832	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2016/08405	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2016/08406	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2016/08775	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2017/00174	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2017/00463	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2017/00469	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2017/00496	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2017/00497	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2017/00535	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2017/00620	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2017/00741	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2017/00949	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2017/01017	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2017/01220	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2017/01861	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2017/02212	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2017/02348	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2017/02492	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2017/02534	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2017/02948	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2017/03198	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2017/03201	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2017/03202	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2017/03203	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2017/03382	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2017/03383	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2017/03737	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2017/04062	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2017/04264	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2017/04391	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2017/04395	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2017/04397	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED

2017/05149	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2017/05590	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2017/06042	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2017/06306	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2017/06682	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2017/06798	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2017/06983	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2017/07150	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2017/07225	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2017/07228	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2017/07292	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2017/07504	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2017/07505	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2017/07559	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2017/08263	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2017/08391	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2017/08393	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/00219	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/00220	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/00417	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/00488	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/00543	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/00604	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/00639	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/00642	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/00801	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/00802	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/00834	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/00839	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/00840	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/00841	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/00842	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/00843	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/00877	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/01097	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/01102	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/01303	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/01481	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/01748	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/01775	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/01778	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/02004	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/02005	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/02090	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/02232	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/02233	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/02417	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/02419	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/03011	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/03487	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED

Application Number	Assignor	Assignee
2018/03488	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/03490	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/03602	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/03807	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/04329	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/04706	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/04708	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/04875	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/04878	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/04914	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/04919	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/05155	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/05303	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/05806	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/05931	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/06217	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/06409	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/06443	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/06445	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/06446	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/06578	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/06650	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/06689	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/06868	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/07103	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/07104	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/07189	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/07213	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/07254	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/07258	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/07551	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/07558	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/07622	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/07624	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/07665	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/07702	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/07782	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/07870	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/07872	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/07906	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/07951	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/08016	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/08017	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/08018	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/08019	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/08020	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/08055	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/08255	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2018/08478	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/00065	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED

Application Number	Assignor	Assignee
2019/00610	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/00668	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/00992	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/00998	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/01039	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/01380	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/01673	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/01944	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/01996	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/02066	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/02154	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/02304	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/02424	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/02425	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/02463	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/02721	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/02804	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/02805	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/03209	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/03270	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/03271	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/03342	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/03412	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/03413	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/03545	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/03631	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/03633	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/03660	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/03661	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/03890	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/04061	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/04063	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/04377	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/04527	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/04661	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/04690	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/05225	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/05321	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/05761	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/06214	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/06400	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/06401	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/06402	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/06404	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/06405	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/06406	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/06407	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/06728	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/06964	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/06966	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED

Application Number	Assignor	Assignee
2019/07551	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/07596	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/07796	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/07874	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/07875	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/07876	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/07878	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/07879	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/07986	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/08008	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/08009	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/08033	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/08411	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/08603	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/08604	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2020/00068	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2020/00094	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2020/00343	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2020/00346	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2020/00410	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2020/00606	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2020/01063	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2020/01065	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2020/01269	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2020/01313	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2020/01395	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2020/01677	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2020/01682	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2020/01837	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/04380	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/04409	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2019/06403	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2020/01315	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2020/01988	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2020/02497	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2020/02547	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2020/02548	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2020/02735	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2020/02924	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2020/02955	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2020/03098	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2020/03147	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2020/03181	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2020/03183	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2020/03294	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2020/03381	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2020/03420	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2020/03841	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2020/04356	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2020/04549	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED

Application Number	Assignor	Assignee
2020/04706	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2020/04900	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2020/05113	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2020/05156	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2020/05394	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2020/05397	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2020/05541	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2020/05637	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2020/05699	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2020/05700	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2020/05816	UNILEVER PLC	UNILEVER GLOBAL IP LIMITED
2020/06323	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

CHANGE OF NAME IN TERMS OF REGULATION 39

Application Number	In the name of	New name
2019/03116	LUCITE INTERNATIONAL UK LIMITED	MITSUBISHI CHEMICAL UK LIMITED
2012/00092	PLEDPHARMA AB	EGETIS THERAPEUTICS AB
2009/04609	NTH DIMENSION CC	THE NTH DIMENSION (PTY) LTD
2020/01221	THE GRITCHIE KITCHEN COMPANY LIMITED	THE CASHMERE CAVEMAN CO, WILD KITCHENS LIMIED
2020/01370	EBERSPACHER EXHAUST TECHNOLOGY GMBH	PUREM GMBH
2020/05565	LABORATOIRES MAJOR	PHARMAJOR
2020/01387	SMS MEVAC GMBH	SMS GROUP GMBH
2015/08889	WESTECH ENGINEERING, INC.	WESTECH ENGINEERING & PROCESS EQUIPMENT LLC
2015/08889	WESTECH ENGINEERING & PROCESS EQUIPMENT LLC	WESTECH ENGINEERING LLC
2015/08889	WESTECH ENGINEERING LLC	WESTECH ENGINEERING, LLC
2014/04904	PLEDPHARMA AB	EGETIS THERAPEUTICS AB
2012/02299	ESBATECH, an ALCON BIOMEDICAL RESEARCH UNIT LLC	ESBATECH, A NOVARTIS COMPANY LLC
2020/06532	ESBATECH, an ALCON BIOMEDICAL RESEARCH UNIT LLC	ESBATECH, A NOVARTIS COMPANY LLC
2021/03711	CRUNCHFISH PROXIMITY AB	CRUNCHFISH DIGITAL CASH AB
2020/03099	CRUNCHFISH PROXIMITY AB	CRUNCHFISH DIGITAL CASH AB
2014/02145	ESBATECH, an ALCON BIOMEDICAL RESEARCH UNIT LLC	ESBATECH, a NOVARTIS COMPANY LLC
2021/03262	CELULARITY, INC.	CELULARITY INC.
2015/06173	ORTHOGRID SYSTEMS S.A.R.L.	ORTHOGRID SYSTEMS HOLDINGS, LLC
2008/04717	CLARITY ACQUISITION II, LLC	ANTHROGENESIS LLC

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Application Number	In the name of	New name
0000/04747		
2008/04717		
2008/05794	CLARITY ACQUISITION II, LLC	ANTHROGENESIS LLC
2008/03929	CLARITY ACQUISITION II, LLC	ANTHROGENESIS LLC
2009/00956	CLARITY ACQUISITION II, LLC	ANTHROGENESIS LLC
2008/03930	CLARITY ACQUISITION II, LLC	ANTHROGENESIS LLC
2008/04718	CLARITY ACQUISITION II, LLC	ANTHROGENESIS LLC
2011/06982	CLARITY ACQUISITION II, LLC	ANTHROGENESIS LLC
2004/06356	CLARITY ACQUISITION II, LLC	ANTHROGENESIS LLC
2011/01210	CLARITY ACQUISITION II, LLC	ANTHROGENESIS LLC
2010/03057	CLARITY ACQUISITION II, LLC	ANTHROGENESIS LLC
2003/06271	CLARITY ACQUISITION II, LLC	ANTHROGENESIS LLC
2017/05625	ROMERIKA N.V.	VANEMA, storitve d.o.o.
2010/02302	CLARITY ACQUISITION II, LLC	ANTHROGENESIS LLC
2010/08539	CLARITY ACQUISITION II, LLC	ANTHROGENESIS LLC
2010/04182	CLARITY ACQUISITION II, LLC	ANTHROGENESIS LLC
2010/08540	CLARITY ACQUISITION II, LLC	ANTHROGENESIS LLC
2010/02304	CLARITY ACQUISITION II, LLC	ANTHROGENESIS LLC
2009/02485	CLARITY ACQUISITION II, LLC	ANTHROGENESIS LLC
2009/05374	CLARITY ACQUISITION II, LLC	ANTHROGENESIS LLC
2009/05376	CLARITY ACQUISITION II, LLC	ANTHROGENESIS LLC
2010/05911	ADIENT YANFENG SEATING	KEIPER SEATING MECHANISMS CO.,
	MECHANISMS CO., LTD.	LTD.
2012/07534	CLARITY ACQUISITION II, LLC	ANTHROGENESIS LLC
2016/06922	CLARITY ACQUISITION II, LLC	ANTHROGENESIS LLC
2016/05568	CLARITY ACQUISITION II, LLC	ANTHROGENESIS LLC
2016/06733	CLARITY ACQUISITION II, LLC	ANTHROGENESIS LLC
2012/01067	CLARITY ACQUISITION II, LLC	ANTHROGENESIS LLC
2012/00969	CLARITY ACQUISITION II, LLC	ANTHROGENESIS LLC

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
2020/07583	WITHDRAWN	28/05/2021
2020/04958	WITHDRAWN	26/07/2021
2020/04888	WITHDRAWN	26/08/5021

APPLICATION FOR RESTORATION OF A LAPSED PATENT

Notice is hereby given **KOTZE**, **HENDRIK MULLER** that made application for the Restoration of the Patent granted to said **KOTZE HENDRI K MULLER** an invention entitled **VALVE** numbered **2017/00511** dated **23/01/2017** which became void **20/01/2021** 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

THE PATENTS ACT, No. 57 OF 1978

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

No records available

APPLICATIONS TO AMEND SPECIFICATION

THE PATENTS ACT, 1978

APPLICATIONS TO AMEND SPECIFICATION

Applicant: UNIVERSITY OF CAPE TOWN Lovers Walk 7700 Rondebosch, Cape Town South Africa. Request permission to amend the specification of letters: 14/05/2019 Patent Application No: 2019/03019 for A METHOD OF SECURING A GAS DIFFUSION LAYER TO A CATALYST COATED MEMBRANE.

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: VIKING GENETICS FMBA Ebeltoftvej 16, Drastrup DK-8960 Randers SØ Denmark. Request permission to amend the specification of letters: 15/12/2017 Patent Application No:2017/08552 for SYSTEM AND METHOD FOR IDENTIFICATION OF INDIVIDUAL ANIMALS BASED ON IMAGES OF THE BACK.

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: BEIJING DABEINONG BIOTECHNOLOGY CO., LTD. No. 49 Building, Institute for Application of Atomic Energy, Chinese Academy of Agricultural Sciences, No. 2 Yuanmingyuan West Road Haidian District, Beijing 100193 People's Republic of China. Request permission to amend the specification of letters: 15/08/2018 Patent Application No: 2018/05452 for USE OF HERBICIDE-TOLERANT PROTEIN.

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: BEIJING DABEINONG BIOTECHNOLOGY CO., LTD. No. 49 Building, Institute for Application of Atomic Energy, Chinese Academy of Agricultural Sciences, No. 2 Yuanmingyuan West Road Haidian District, Beijing 100193 People's Republic of China.

Request permission to amend the specification of letters: **10/08/2017** Patent Application No: **2017/05395** for **HERBICIDE-RESISTANT PROTEIN, ENCODING GENE AND USE THEREOF.**

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: FOREVER CHEER INTERNATIONAL LIMITED Unit 1405-1406, Dominion Centre, 43-59 Queen's Road East Wan Chai Hong Kong. Request permission to amend the specification of letters: 18/05/2018 Patent Application No: 2018/03320 for PHARMACEUTICAL COMPOSITIONS FOR TREATING PAIN.

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: RODA FUTURA, LLC. Request permission to amend the specification of letters: 23/9/2020 Patent Application No: 2020/05900 for REMOVABLE POWER ASSIST FOR MANUAL WHEELCHAIR.

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: WOBBEN PROPERTIES GMBH. Request permission to amend the specification of letters: 03/7/2013 Patent Application No: 2013/04951 for METHOD AND DEVICE FOR ERECTING A TOWER FOR WIND ENERGY PLANT.

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: NOVARTIS AG. Request permission to amend the specification of letters: 19/5/2004 Patent Application No: 2005/08203 for IMMUNOSUPPRESSANT COMPOUNDS AND COMPOSITIONS.

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: MACROGENICS, INC. Request permission to amend the specification of letters: 25/5/2018 Patent Application No: 2018/03472 for BISPECIFIC MOLECULES HAVING IMMUNOREACTIVITY WITH PD-1 AND CTLA-4, AND METHODS OF USE THEREOF.

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: OBERMEYER, HENRY K. Request permission to amend the specification of letters: 30/4/2018 Patent Application No: 2019/02646 for IMPROVED REVERSIBLE PUMP-TURBINE INSTALLATION.

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: ABBVIE INC. Request permission to amend the specification of letters: 20/12/2018 Patent Application No: 2018/08623 for GLUCOCORTICOID RECEPTOR AGONIST AND IMMUNOCONJUGATES THEREOF

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: VALEANT INTERNATIONAL (BARBADOS) SRL of CHELSTON PARK COLLYMORE ROCK BUILDING 2 GROUND FLOOR, ST MICHAEL, BARBADOS. Request permission to amend the specification of letters patent no: 2005/09051 of 9 NOVEMBER 2005 for MODIFIED-RELEASE TABLET OF BUPROPION HYDROCHLORIDE

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: ROMETIC BIOTHERAPEUTICS, INC. of 1330 PICCARD DRIVE, SUITE 201, ROCKVILLE, MARYLAND, 20850, UNITED STATES OF AMERICA. Request permission to amend the specification of letters patent no: 2020/00280 of 15 JANUARY 2020 for PLASMINOGEN TREATMENT OF CONDITIONS ASSOCIATED WITH PAI-1 OVEREXPRESSION

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: Microsoft Technology Licensing, LLC of One Microsoft Way, Redmond, Washington, 98052-6399, United States of America. Request permission to amend the specification of letters patent no: 2019/02220 of 9 April 2019 for SECURE KEY MANAGEMENT

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: 2010/00845. 22: 2010/02/04. 43: 2021/07/06 51: B01L 71: Clondiag GmbH 72: ERMANTRAUT, Eugen, KAISER, Thomas,

SCHULZ, Torsten, STEINMETZER, Katrin, ULLRICH, Thomas 33: US 31: 60/951,358 32: 2007-07-23 54: ASSAYS

00: -

A device comprising a rigid substrate, a flexible cover element at least partially covering the substrate, a first structure formed in the substrate, adapted for accommodating liquids and adapted for releasing contents of one or more cells, spores, or viruses, the contents including the target molecules, a second structure formed in the substrate, adapted for accommodating liquids and comprising at least one binding member adapted for capturing the target molecules and for determining a value indicative for the presence and/or amount of the target molecules, a microfluidic network interconnecting at least the first structure and the second structure, and an actuator member adapted for effecting a fluid flow between the first structure and the second structure by pressing the flexible cover element against the substrate to selectively close a portion of the microfluidic network.

21: 2014/02491. 22: 2014/04/04. 43: 2021/08/16 51: C07K; A61P 71: BOEHRINGER INGELHEIM INTERNATIONAL GMBH 72: BROWN, Su-ELLEN, CANADA, KEITH, CHLEWICKI, LUKASZ, HOWELL, MICHAEL, MENNERICH, DETLEV, WOSKA JR, JOSEPH ROBERT 33: US 31: 61/560,554 32: 2011-11-16 33: US 31: 61/664,111 32: 2012-05-08 33: US 31: 61/713,713 32: 2012-10-15 33: JM 31: 070794 32: 2016-08-29 54: ANTI IL-36R ANTIBODIES 00: -

The present invention relates to anti-IL-36R binding compounds, in particular new anti-IL-36R antibodies and therapeutic and diagnostic methods and compositions for using the same.



21: 2015/00679. 22: 2015/01/29. 43: 2021/07/06
51: B29B; B29C; B65D; B67D
71: Heineken Supply Chain B.V.
72: WITTE, Pieter Gerard, PAAUWE, Arie Maarten, BAX, Bart Jan, BLOM, Harold Marcel
33: NL 31: 2009235 32: 2012-07-26
54: CONTAINER AND SET OF PREFORMS FOR FORMING A CONTAINER
00: -

Container of a bag-in-container type, wherein a neck region of the container is provided with at least one opening extending substantially radially there

through, into a space between the outer container and an inner container adjacent thereto, wherein the neck region is provided with coupling elements, preferably at opposite sides of said at least one opening, seen in circumferential direction, for coupling of a connecting device to the container for introducing a pressure fluid through said at least one opening into a space between the inner and outer container.



21: 2015/00682. 22: 2015/01/29. 43: 2021/07/06 51: C02F

71: Arvia Technology Limited

72: BROWN, Nigel, ROBERTS, Edward, EATON, Donald, ADEYEMI, Akinlabi

33: GB 31: 1212676.9 32: 2012-07-17

54: APPARATUS AND METHOD FOR AQUEOUS ORGANIC WASTE TREATMENT

00: -

The apparatus comprises a treatment reservoir defining first and second treatment zones separated by a porous membrane. Carbon-based adsorbent material capable of electrochemical regeneration is provided in said first and second treatment zones. An agitator is operable to distribute the adsorbent in aqueous organic waste liquid contained in the first and second treatment zones. First and second electric current feeders are operably connected to the adsorbent in the first and second treatment zones respectively. A controller operates the electric current feeders to pass an electric current through the adsorbent in the treatment zones in one direction to regenerate the adsorbent in one of the treatment zones and to then reverse the direction of the current applied to the adsorbent to regenerate the adsorbent in the other treatment zone. Further apparatus is described which facilitates aqueous waste water treatment in a continuous manner.



21: 2015/00729. 22: 2015/01/30. 43: 2021/07/06 51: B67D

71: Heineken Supply Chain B.V.

72: WITTE, Pieter Gerard, PAAUWE, Arie Maarten, BAX, Bart Jan

33: NL 31: 2009237 32: 2012-07-26

54: CONNECTING DEVICE AND TAPPING ASSEMBLY AS WELL AS A CONTAINER AND METHOD FOR BEVERAGE DISPENSING 00: -

Device 5 for connecting a gas line 6 to a bag-incontainer type of container 3, comprising a first 61 and a second part 62, movably connected to said first part 61, wherein one of the first or second part 61, 62 comprises a coupling opening 60 with coupling elements 67 for connecting the device 5 to a part of a bag-in-container type container 3 extending inside coupling opening 60. The connecting device 5 comprises a connecting element 70, movable between an extended position wherein the connecting element 70 extends partly inside coupling opening 60 and a retracted position in which the connecting element 70 extends less or not into coupling opening 60, the connecting device 5 further comprising a mechanism 72 for moving the connecting element 70 between the extended and

the retracted position by relative movement of first and second parts 61, 62.



- 21: 2015/00762. 22: 2015/02/02. 43: 2021/07/06 51: A61K; A61P; C07D
- 71: Acea Biosciences Inc.
- 72: XU, Xiao, WANG, Xiaobo, MAO, Long, ZHAO, Li, XI, Biao
- 33: US 31: 61/680,231 32: 2012-08-06
- 54: NOVEL PYRROLOPYRIMIDINE COMPOUNDS AS INHIBITORS OF PROTEIN KINASES 00: -

The present invention relates to certain pyrrolopyrimidine derivatives, pharmaceutical compositions containing them, and methods of using them, including methods for the treatment of proliferation disorders and other diseases related to the dysregulation of kinase (such as, but not limited to, EGFR (including HER), Alk, PDGFR, BLK, BMX/ETK, BTK, FLT3 (D835Y), ITK, JAKI, JAK2, JAK3, TEC and TXK) and/or the respective pathways.



- 21: 2015/00853. 22: 2015/02/05. 43: 2021/07/06
- 51: H01Q

71: SAAB AB 72: FORSLUND, Ola, HOLTER, Henrik 54: METHOD FOR INTEGRATING AN ANTENNA WITH A VEHICLE FUSELAGE 00: -

An antenna frame for reducing radar cross section of a vehicle provided with a flat microstrip patch antenna array comprising a number of microstrip patches arranged in an array pattern, the antenna frame: - being arranged to surround the outer periphery of the flat antenna array - the frame comprising a first conductive sheet; - the first conductive sheet extending from the most peripheral patches and outward in a sloping manner; wherein dielectric and magnetic absorbent material are arranged to improve impedance transition from a point of the antenna to a point on the periphery of the frame, which is also contemplated as adjoining a vehicle fuselage.



21: 2015/00924. 22: 2015/02/09. 43: 2021/07/06 51: H04L

- 71: Huawei Technologies Co., Ltd.
- 72: TANG, Zhenfei, LI, Yuanjie
- 33: PCT/CN 31: 2012/079607 32: 2012-08-02 54: METHOD, APPARATUS AND SYSTEM FOR TRANSMITTING CONTROL INFORMATION 00: -

Disclosed are a method, an apparatus and a system for transmitting control information. The method comprises: determining a serial number of an enhanced resource element group in a resource block, and determining, according to the serial number of the resource element group, a location of a resource element corresponding to the enhanced resource element group; interleaving the serial number of the enhanced resource element group, and determining an enhanced control channel element; determining, according to the enhanced control channel element and the location of the resource element corresponding to the enhanced resource element group, a location of a resource element corresponding to the enhanced control channel element; and transmitting corresponding control information at the location of the resource element corresponding to the control channel element. The present invention can alleviate a problem that the channel frequency diversity is bad, and reduce the probability of information loss of a terminal device.



21: 2015/01128. 22: 2015/02/18. 43: 2021/07/06 51: A61M 71: SHL Medical AG 72: HÖGDAHL, Stefan

33: SE 31: 1250934-5 32: 2012-08-20 54: AUTOMATIC INJECTION DEVICE 00: -

The present invention relates to a medicament injection device (100) arranged to receive a replaceable container subassembly (103) The medicament injection device (100) comprises a front housing (102) and a rear housing (101) releasably connectable to each other. A reloadable drive mechanism (108) is accommodated in the rear housing (101) for acting on the plunger (14) of a replaceable container subassembly (103) for expelling medicament. A needle hider front is slidably arranged within the front housing. A needle shield remover (109) is arranged to connect with a needle shield of the replaceable container subassembly, wherein the needle shield remover is arranged to be removably inserted into a proximal end of the front housing through the needle hider front. The needle shield remover is adapted to be used to interact with the reloadable drive mechanism accommodated in the rear housing such that a user can reload the drive mechanism.



Fig. 5b

21: 2015/01159. 22: 2015/02/19. 43: 2021/07/06 51: C02F 71: Outotec (Finland) Oy 72: NEVATALO, Laura, VAN DER MEER, Tuomas, KERSTIENS, Bernd

33: FI 31: 20125884 32: 2012-08-27 54: METHOD FOR REMOVING SULPHATE, CALCIUM AND/OR OTHER SOLUBLE METALS FROM WASTE WATER

00: -

The invention relates to a method and apparatus for re- moving sulphate, calcium and/or soluble metals from waste water, which method comprises the following steps a) a gypsum precipitation step b) an ettringite precipitation step, c) a first separation step, d) a neutralisation step, and e) a second separation step in order to obtain water having a reduced sulphate, calcium and/or soluble metals content. The waste water is process water, effluent or sulphatecontaining water, such as mine water, recycle water from concentrator or discharge water from concentrator.



Figure 1. Ettringite process flow sheet (option 1 for "low" sulfate load, only one clarifier).

21: 2015/01457. 22: 2015/03/03. 43: 2021/07/06 51: C07K

71: Bristol-Myers Squibb Company 72: CLOAD, Sharon, ENGLE, Linda, LIPOVSEK, Dasa, MADIREDDI, Malavi, RAKESTRAW, Ginger Chao, SWAIN, Joanna, ZHAO, Wenjun, WEI, Hui, YAMNIUK, Aaron P., RAMAMURTHY, Vidhyashankar, KOZHICH, Alexander T., CORBETT, Martin J., KRYSTEK, Stanley Richard Jr. 33: US 31: 61/700,697 32: 2012-09-13 54: FIBRONECTIN BASED SCAFFOLD DOMAIN PROTEINS THAT BIND TO MYOSTATIN 00: -

The present invention relates to fibronectin-based scaffold domain proteins that bind to myostatin. The invention also relates to the use of these proteins in therapeutic applications to treat muscular dystrophy, cachexia, sarcopenia, osteoarthritis, osteoporosis, diabetes, obesity, COPD, chronic kidney disease, heart failure, myocardial infarction, and fibrosis. The invention further relates to cells comprising such proteins, polynucleotides encoding such proteins or fragments thereof, and to vectors comprising the polynucleotides encoding the proteins.

21: 2015/01523. 22: 2015/03/05. 43: 2021/07/06

51: E21B

71: Robit Oyj

72: HEINONEN, Mikko, SJÖHOLM, Harri, RAUTIAINEN, Jussi, MATTILA, Mikko, MONTONEN, Jori 33: FI 31: 20125921 32: 2012-09-06 54: METHOD FOR SURVEYING DRILL HOLES, DRILLING ARRANGEMENT, AND BOREHOLE SURVEY ASSEMBLY 00: -

The invention relates to a method for surveying drill holes and to a drilling arrangement and to a borehole survey assembly. The method comprises a first providing step for providing a drill tool (1) comprising at least one drill rod (2) and a drill bit assembly (3), and a second providing step for providing a borehole survey tool (4) comprising sensor means (5) for measuring a borehole (6). In the method a drill tool (1) comprising a central flushing channel (8) for conducting flushing fluid to the drill bit assembly (3) is used, and the borehole survey tool (4) is arranged in the arranging step in the central flushing channel (8) so that flushing fluid can flow in the central flushing channel (8) past the borehole survey tool (4).



21: 2015/01707. 22: 2015/03/12. 43: 2021/07/06 51: H01L

71: Oxford University Innovation Limited

72: SNAITH, Henry James, CROSSLAND, Edward James William, HEY, Andrew, BALL, James, LEE, Michael, DOCAMPO, Pablo 33: GB 31: 1216605.4 32: 2012-09-18

54: OPTOELECTRONIC DEVICE

The invention provides an optoelectronic device comprising a photoactive region, which photoactive region comprises: an n-type region comprising at least one n-type layer; a p- type region comprising at least one p-type layer; and, disposed between the ntype region and the p-type region: a layer of a perovskite semiconductor without open porosity. The perovskite semiconductor is generally lightabsorbing. In some embodiments, disposed between the n-type region and the p-type region is: (i) a first layer which comprises a scaffold material, which is typically porous, and a perovskite semiconductor, which is typically disposed in pores of the scaffold material; and (ii) a capping layer disposed on said first layer, which capping layer is said layer of a perovskite semiconductor without open porosity, wherein the perovskite semiconductor in the capping layer is in contact with the perovskite semiconductor in the first layer. The layer of the perovskite semiconductor without open porosity (which may be said capping layer) typically forms a planar heterojunction with the n-type region or the p-type

region. The invention also provides processes for producing such optoelectronic devices which typically involve solution deposition or vapour deposition of the perovskite. In one embodiment, the process is a low temperature process; for instance, the entire process may be performed at a temperature or temperatures not exceeding 150 °C.

Metallic electrode
p-type semiconductor
Perovskite: n-type, intrinsic or p- type
n-type semiconductor
Metallic electrode

(a)

- 21: 2015/02055. 22: 2015/03/25. 43: 2021/07/06 51: C21D; C22C
- 71: ATI Properties LLC
- 72: FORBES JONES, Robin M., MCDEVITT, Erin T.
- 33: US 31: 13/777,066 32: 2013-02-26
- 54: METHODS FOR PROCESSING ALLOYS 00: -

A method of processing a workpiece to inhibit precipitation of intermetallic compounds includes at least one of thermomechanically processing and cooling a workpiece including an austenitic alloy. During the at least one of thermomechanically working and cooling the workpiece, the austenitic alloy is at temperatures in a temperature range spanning a temperature just less than a calculated sigma solvus temperature of the austenitic alloy down to a cooling temperature for a time no greater than a critical cooling time.

- 21: 2015/02057. 22: 2015/03/25. 43: 2021/07/06
- 51: C12M
- 71: Calysta, Inc.
- 72: SILVERMAN, Joshua, RESNICK, Sol M., REGITSKY, Drew
- 33: US 31: 61/711,104 32: 2012-10-08
- **54: GAS-FED FERMENTATION SYSTEMS**

00: -

A fermenter can have at least one hollow fluid conduit disposed at least partially within a vessel. An external circumference of the hollow fluid conduit and an interior circumference of the vessel can define a downward flow path through which a multiphase mixture including a liquid media and compressed gas substrate bubbles flows. An interior circumference of the hollow fluid conduit can defined an upward flow path which is in fluid communication with the downward flow path. The multi-phase liquid can flow through the upward flow path and exit the fermenter. Cooling may be provided in the hollow fluid conduit or the vessel. One or more backpressor generators can be used to maintain a backpressure on the fermenter. One or more fluid movers can be used to variously create an induced and/or forced flow in the downward and upward flow paths.



21: 2015/02242. 22: 2015/03/31. 43: 2021/07/06 51: A61M 71: SHL Medical AG 72: HOLMQVIST, Anders 33: SE 31: 1251133-3 32: 2012-10-05 33: US 31: 61/710,029 32: 2012-10-05 **54: MEDICAMENT DELIVERY DEVICE** 00: -

The present invention relates to a medicament delivery device comprising a housing (10) adapted to receive a medicament container (24); an actuation member (48) movable from a first position to a second position, such that the medicament is allowed to be expelled through the delivery member (28);an interlock member (46) movable between a locking position, and a releasing position, the device having an indicator to show that it has been used provided by the actuation member (48) being retained in its second position. The invention is characterised in that the actuation member comprises at least one latching projection (58) and the drive mechanism comprises corresponding latching surfaces (64) against which the latching projections (58) latch when the actuation member (48) is in its second position.



21: 2015/02302. 22: 2015/04/07. 43: 2021/07/06 51: H04N 71: QUALCOMM Incorporated 72: WANG, Ye-Kui 33: US 31: 61/703,695 32: 2012-09-20 54: VIDEO CODING WITH IMPROVED RANDOM ACCESS POINT PICTURE BEHAVIORS 00: -This disclosure describes techniques for selection of coded picture buffer (CPB) parameters used to

coded picture buffer (CPB) parameters used to define a CPB for a video coding device for clean random access (CRA) pictures and broken link access (BLA) pictures in a video bitstream. A video coding device receives a bitstream including one or more CRA pictures or BLA pictures, and also receives a message indicating whether to use an alternative set of CPB parameters for at least one of the CRA pictures or BLA pictures. The message may be received from an external means, such as a processing means included in a streaming server or network entity. The video coding device sets a variable defined to indicate the set of CPB parameters for a given one of the pictures based on the received message, and selects the set of CPB parameters for the given one of the pictures based on the variable for the picture.


21: 2015/02430. 22: 2015/04/10. 43: 2021/07/06 51: A61B; C09J

71: Lohmann GmbH & Co. KG, GRETZ, Norbert, SCHOCK-KUSCH, Daniel

72: GRETZ, Norbert, SCHOCK-KUSCH, Daniel, HERBERTZ, Michael, NITTENWILM, Ralf 33: DE 31: 10 2012 018 076.4 32: 2012-09-13 54: ADHESIVE FUNCTIONAL STRIP FOR TRANSCUTANEOUS FLUORESCENCE MEASUREMENT 00: -

00: -

The present invention pertains to a functional patch to be affixed to the skin, with the aim of measuring metabolic disruptions to organs, and general organ functions, of kidneys, liver, heart, pancreas and muscles (lactate), for example - more particularly it concerns the measurement of the glomerular filtration rate (GFR) - and also to a method for producing a functional patch of this kind.



21: 2015/02457. 22: 2015/04/13. 43: 2021/07/06 51: A61K; A61P; C07C; C07D 71: InterMune, Inc. 72: BUCKMAN, Brad Owen, NICHOLAS, John Beamond, RAMPHAL, Johnnie Y., EMAYAN, Kumaraswamy, SEIWERT, Scott D. 33: US 31: 61/709,075 32: 2012-10-02 54: ANTI-FIBROTIC PYRIDINONES 00: - Disclosed are pyridinone compounds, method for preparing these compounds, and methods for treating fibrotic disorders.

- 21: 2015/02778. 22: 2015/04/23. 43: 2021/07/06
- 51: A61K; C07K; C12N

71: Trophogen Inc.

72: SZKUDLINSKI, Mariusz, WEINTRAUB, Bruce D.

33: US 31: 61/677,331 32: 2012-07-30 54: GLYCOPROTEIN HORMONE LONG-ACTING SUPERAGONISTS

00: -

This invention provides long-acting, superactive analogs of glycoprotein hormones demonstrating enhanced bioactivity both in vitro and in vivo as compared to wild type counterparts. The analogs are particularly useful for treating subjects showing low receptor expression or poor receptor responsiveness, and for the treatment of any condition associated with glycoprotein hormone activity.

21: 2015/02996. 22: 2015/04/30. 43: 2021/07/06 51: A01N; A01P; C07D

71: Bayer CropScience AG 72: HEILMANN, Eike Kevin, GREUL, Jörg, TRAUTWEIN, Axel, SCHWARZ, Hans-Georg, ADELT, Isabelle, ANDREE, Roland, LÜMMEN, Peter, HINK, Maike, ADAMCZEWSKI, Martin, DREWES, Mark, BECKER, Angela, VOERSTE, Arnd, GÖRGENS, Ulrich, ILG, Kerstin, JANSEN, Johannes-Rudolf, PORTZ, Daniela 33: EP(DE) 31: 12186946.5 32: 2012-10-02 54: HETEROCYCLIC COMPOUNDS AS PESTICIDES

The present application relates to the use of heterocyclic compounds for the control of animal pests, including arthropods, insects and nematodes, novel heterocyclic compounds, methods for the production thereof and feedstock for the production of heterocyclic compounds.

- 21: 2015/03186. 22: 2015/05/08. 43: 2021/07/06
- 51: A61K; A61P

00: -

- 71: Merck Patent GmbH
- 72: BLADT, Friedhelm, FRIESE-HAMIM, Manja

33: EP(DE) 31: 12007039.6 32: 2012-10-11 54: COMBINATION OF A 6-OXO-1,6-DIHYDRO-PYRIDAZINE DERIVATIVE HAVING ANTI-CANCER ACTIVITY WITH A MEK INHIBITOR

00: -

A pharmaceutical composition comprising: 3-(1-{3-[5-(1-methyl-piperidin-4-ylmethoxy)-pyrimidin-2-yl]benzyl}-6-oxo-1,6-dihydro-pyridazin-3-yl)benzonitrile or a pharmaceutically acceptable salt and/or solvate thereof and N-((S)-2,3-dihydroxypropyl)-3-(2-fluoro-4-iodo-phenylamino)isonicotinamide or a pharmaceutically acceptable salt and/or solvate thereof.

21: 2015/03357. 22: 2015/05/14. 43: 2021/07/06 51: C07C; C07F

71: Evonik Operations GmbH

72: MOSER, Ralph, MAYER, Stefanie, RÖBEN, Caren

33: DE 31: 10 2014 209 233.7 32: 2014-05-15 54: UREA-CONTAINING MERCAPTOSILANES, PROCESS FOR PREPARATION THEREOF AND USE THEREOF

00: -





which are prepared by reacting a halosilane of the formula li



10

with compounds of the formula III



15 in an alcohol

21: 2015/03653. 22: 2015/05/22. 43: 2021/07/06 51: H04N

71: Sony Corporation

72: HATTORİ, Shinobu, KANAI, Kenichi, HAMADA, Toshiya, TSURU, Takumi, ETO, Hiroaki 33: JP 31: 2013-215060 32: 2013-10-15 54: DECODING DEVICE AND DECODING METHOD, AND CODING DEVICE AND CODING METHOD

00: -

There is provided a decoding device including circuitry configured to receive coded data and conversion information, the coded data pertaining to an image having luminance in a first dynamic range and the conversion information pertaining to a conversion of dynamic range of the luminance of the image from the first dynamic range into a second dynamic range; and decode the received coded data so as to generate the image, wherein the conversion uses a knee function.



21: 2015/03687. 22: 2015/05/25. 43: 2021/07/06 51: C11D 71: Colgate-Palmolive Company

72: PAN, Long, SCALA, Diana, WU, Donghui, MATTAI, Jairaj, BOYKE, Christine, SHI, Minli, CURLEY, Diane

54: BAR SOAP COMPOSITION AND METHOD OF MANUFACTURE

00: -

0

(II)

an.

A soap bar composition comprising solid soap and an oil-in-water emulsion, wherein the emulsion comprises one or more surfactants and wherein the emulsion is dispersed within the solid soap.

21: 2015/03842. 22: 2015/05/28. 43: 2021/07/06

51: B28B; B29C; C04B

71: Corning Incorporated

72: CHAPMAN, Thomas Richard, GEORGE, Jacob, HAGG, Ralph H., HALDER, Amit, SARMA, Huthavahana Kuchibhotla

33: US 31: 13/688.891 32: 2012-11-29

54: A HONEYCOMB STRUCTURE COMPRISING A MULTILAYER CEMENT SKIN

Disclosed is a ceramic honeycomb structure comprising a honeycomb body and a multilayered outer layer formed of a thick core layer applied and rapidly dried and a thin clad layer dried more gently to form a crack free dual skin layer. The core layer may have properties that are closer to those of the ceramic honeycomb body in service than the clad layer that may provide a tough outer shell to withstand handling and assembly.



21: 2015/03976. 22: 2015/06/03. 43: 2021/07/06 51: A61K; A61Q

71: Colgate-Palmolive Company

72: SZEWCZYK, Gregory, PATEL, Neeta Atul, JOGUN, Suzanne

54: NON-STAINING TOOTHPASTE

The present invention relates to a dentifrice which does not excessively stain toothbrush bristles, for example, a pigmented toothpaste formulations having a pigment system which comprises (i) a dissolvable or disintegratable film comprising one or more releasable pigments which are released during brushing, and (ii) titanium dioxide, wherein the level of titanium dioxide is 0.01-0.375% by weight of the toothpaste; together with methods of making and using the same.

21: 2015/04024. 22: 2015/06/04. 43: 2021/07/06 51: A61K; A61Q 71: L'Oréal 72: BURCKBUCHLER, Virginie 33: FR 31: 1350825 32: 2013-01-31 54: COMPOSITION COMPRISING A DICARBOXYLIC ACID AND AN OIL, AND HAIR STRAIGHTENING PROCESS 00: -

The invention relates to a composition comprising, in a physiologically acceptable aqueous medium, a dicarboxylic acid containing from 2 to 8 carbon atoms, and a plant oil of triglyceride type with a fatty acid fraction comprising not more than 20% by weight of oleic acid, the composition having a pH ranging from 7 to 11. Process for straightening African-type hair using the composition and a straightening step with an iron at a temperature of at least 100°C.

21: 2015/04110. 22: 2015/06/08. 43: 2021/07/06 51: E05B 71: Abloy Oy 72: HELISTEN, Mika 33: FI 31: 20126335 32: 2012-12-19 **54: DOOR LOCK**

00: -

The invention relates to a door lock (1) provided with an oblique bolt (5). The objective is to decrease the external force directed into to deadlocking organs. The oblique bolt (5) comprises slanted surfaces (10A, 10B) on both sides such that the tip part (5A) is narrower at its tip than in the back part of the tip part. The tip part has recesses (53A, 53B) in its lower part and upper part, which extend from the tip to the back part. Both recesses have a turning piece (31A, 31B). Additionally, the oblique bolt has a support piece (47) and flexing organs (46). The turning pieces guide external force up to a given turning angle via the support piece and flexing organs into the deadlocking organs.



21: 2015/04148. 22: 2015/06/09. 43: 2021/07/06 51: C21D; C22C; E21B 71: Sandvik Intellectual Property AB 72: LINDÉN, Johan, ANTONSSON, Tomas 33: EP(SE) 31: 12198569.1 32: 2012-12-20 54: BAINITIC STEEL FOR ROCK DRILLING COMPONENT

00: -

A bainitic steel comprising, in weight% (wt%): C: 0.16 - 0.23, Si: 0.8 - 1.0, Mo: 0.67 - 0.9, Cr: 1.101.30, V: 0.18 - 0.4, Ni: 1.60 - 2.0, Mn: 0.65 - 0.9, P: ≤ 0.020 , S: ≤ 0.02 , Cu: < 0.20, N: 0.005 - 0.01 balance Fe and unavoidable impurities.



21: 2015/04289. 22: 2015/06/12. 43: 2021/07/06 51: G10L

71: Samsung Electronics Co., Ltd.

72: CHOO, Ki-Hyun, POROV, Anton Victorovich, OSIPOV, Konstantin Sergeevich, LEE, Nam-suk 33: US 31: 61/725,694 32: 2012-11-13 54: METHOD AND APPARATUS FOR DETERMINING ENCODING MODE, METHOD AND APPARATUS FOR ENCODING AUDIO SIGNALS, AND METHOD AND APPARATUS FOR DECODING AUDIO SIGNALS 00: -

Provided is a method for determining an encoding mode comprising the steps of: determining one of a plurality of encoding modes including a first encoding mode and a second encoding mode as an initial encoding mode of the current frame in correspondence to the characteristics of an audio signal; and modifying, if an error exists in the determination of the initial encoding mode, the initial encoding mode into a third encoding mode so as to generate a modified encoding mode.



110 ... Encoding mode determining unit

130 ... Spectrum domain encoding unit 141 ... Time domain excitation encoding unit

43 ... Frequency domain excitation encoding unit

- 150 ... Bitstream generating unit
- AA ... Original signal

21: 2015/04355. 22: 2015/06/17. 43: 2021/07/06 51: C08G; C08H; C09D 71: Akzo Nobel Coatings International B.V. 72: BODE, Daniel, WILSON, Pam, CRAUN, Gary Pierce 33: US 31: 61/738,432 32: 2012-12-18 54: LIGNIN BASED COATING COMPOSITIONS 00: -

The current invention includes coating compositions having a lignin, methods for coating substrates using the coating compositions, and substrates coated with the coating compositions. In some embodiments of the invention, a coating composition having a mixtureof a) a lignin, b) a solvent, and c) a crosslinker, wherein the lignin has a neutral or negative charge. The current invention also includes a coating composition havinga mixtureof a) a lignin,b) apolymeric epoxy crosslinkerhavingglycidyl (meth)acrylate, and c) a solvent. Additionally, the current invention includes a coating composition havinga mixtureof a) a lignin, b) a solvent, and c) a phenolic crosslinker.

21: 2015/04433. 22: 2015/06/19. 43: 2021/07/06 51: G06F

71: Barclays Execution Services Limited 72: CHENG, Lawrence Lok-Lun, GOLDSTONE,

Jeremy 33: GB 31: 1221005.0 32: 2012-11-22 54: IDENTITY INFORMATION SYSTEMS AND METHODS

00: -

A computer implemented method of providing candidate information comprises: obtaining a challenge code from a verification service at a first device associated with an ID candidate; capturing the challenge code from the first device at a second device associated with an ID checker; verifying the challenge code between the second device and the verification service and, if the challenge code is verified, providing the candidate information from the verification service, such that the candidate information is accessible to the ID checker.



21: 2015/04439. 22: 2015/06/19. 43: 2021/07/06 51: C21B; C22B

71: Kabushiki Kaisha Kobe Seiko Sho (Kobe Steel, Ltd.)

72: KIKUCHI, Shoichi, MIMURA, Tsuyoshi, HARADA, Takao, YOSHIDA, Shingo 33: JP 31: 2013-018890 32: 2013-02-01 54: METHOD FOR PRODUCING REDUCED

54: METHOD FOR PRODUCING REDUCED IRON 00: -

Provided is a technique for increasing the yield of reduced iron, thereby improving productivity when manufacturing reduced iron by heating an agglomerate. This method for manufacturing reduced iron includes: a step in which a mixture is agglomerated, said mixture containing an iron oxidecontaining substance, a carbonaceous reducing agent, and a melting point regulator; and a step in which reduced iron is manufactured by heating the obtained agglomerate, reducing and partially melting the iron oxide in the agglomerate, and aggregating the iron component. The particle size of the fine particulate iron generated in the step in which the reduced iron is manufactured is adjusted, and the fine particulate iron is blended into the mixture. 21: 2015/04504. 22: 2015/06/23. 43: 2021/07/06 51: B25D; E21B; F16K 71: Sandvik Mining and Construction Oy 72: LEINO, Timo, MUUTTONEN, Timo, KOSKIMÄKI, Antti, KOTALA, Ari

33: EP(FI) 31: 14175564.5 32: 2014-07-03 54: CONTROL VALVE 00: -

A control valve for controlling flow of a pressure fluid in a breaking device, comprises a sleeve-like control valve comprising at least one opening enabling flow of the pressure fluid through the opening. The at least one opening comprises at least one wall at least a part of which is not arranged in a direction parallel to a radial direction of the control valve extending through the middle point of the cross section of the opening on the outer circumference of the control valve such that the pressure fluid flowing through the opening may be arranged to rotate the control valve about the longitudinal axis of the control valve. 72: FORBES JONES, Robin M., SMITH Jr., George J., FLODER, Jason P., THOMAS, Jean-Philippe A., MINISANDRAM, Ramesh S.
33: US 31: 13/792,285 32: 2013-03-11
54: THERMOMECHANICAL PROCESSING OF HIGH STRENGTH NON-MAGNETIC CORROSION RESISTANT MATERIAL
00: -

A method of processing a non-magnetic alloy workpiece comprises heating the workpiece to a warm working temperature, open die press forging the workpiece to impart a desired strain in a central region of the workpiece, and radial forging the workpiece to impart a desired strain in a surface region of the workpiece. In a non-limiting embodiment, after the steps of open die press forging and radial forging, the strain imparted in the surface region is substantially equivalent to the strain imparted in the central region. In another nonlimiting embodiment, the strain imparted in the central and surface regions are in a range from 0.3 inch/inch to 1 inch/inch, and there exists no more than a 0.5 inch/inch difference in strain of the central region compared with the strain of the surface region of the workpiece. An alloy forging processed according to methods described herein also is disclosed.



21: 2015/04566. 22: 2015/06/24. 43: 2021/07/06 51: B21J; B21K; C21D; E21B 71: ATI Properties LLC



21: 2015/04658. 22: 2015/06/26. 43: 2021/07/06 51: A61K; A61P; C07C; C07D 71: Nippon Zoki Pharmaceutical Co., Ltd. 72: OOKUBO, Tomohiro, NAKAMURA, Ko, NAKAZAWA, Yoshitaka, NANBA, Hiroyoshi, YOSHIDA, Hiroyuki 33: JP 31: 2012-286935 32: 2012-12-28 **54: CINNAMIC ACID AMIDE DERIVATIVE** 00: -

The present invention provides a cinnamic acid amide derivative having an excellent analgesic activity. The cinnamic acid amide derivative according to the present invention is a compound that exhibits an excellent analgesic activity on a nociceptive pain model animal as well as a neuropathic pain model animal, and is extremely useful as a medicine for treating various painful diseases in which acute or chronic pain or neuropathic pain is developed.

21: 2015/04663. 22: 2015/06/26. 43: 2021/07/06 51: C12Q

71: Pontificia Universidad Catolica de Chile 72: GONZALEZ DIAZ, Hernan Eugenio, VARGAS SALAS, Sergio, MARTINEZ SOLIS, Jose Rodrigo Waldemar

33: US 31: 61/730,391 32: 2012-11-27 54: COMPOSITIONS AND METHODS FOR DIAGNOSING THYROID TUMORS 00: -

The present invention provides dignostic assays for identifying thyroid cancer in a biological sample, including a fine needle aspirate, as well as related compositions and kits useful in practicing the methods of the invention.

21: 2015/04847. 22: 2015/07/06. 43: 2021/07/06 51: F24D; F24H; G05D

71: Oxford University Innovation Limited

72: MCCULLOCH, Malcolm Duncan, ARMSTRONG, Peter Michael

33: GB 31: 1221828.5 32: 2012-12-04

54: SENSOR, CONTROLLER AND SYSTEM 00: -

The present invention relates to a sensor (104) for measuring temperature of a fluid within a vessel (106), the vessel (106) having a first region and a second region and the fluid having a temperature profile extending between the first region and the second region, the sensor (104) comprising an array of elements (300), each element (300) having a temperature-dependent parameter, the array being capable of deployment within or adjacent the vessel (106) such that the array extends along the vessel (106) for measuring the temperature profile, the elements (300) of the array being coupled together between an input and an output, the input being coupled or capable of being coupled to a driving source for driving the sensors (104), and the output being coupled or capable of being coupled to a detector for measuring an aggregate of the temperature-dependent parameter from the array of elements (300). The invention further relates to a fluid temperature controller (100) comprising a first input for receiving a first signal (102) indicating a measurement of an aggregate of a temperaturedependent parameter from a sensor according to any preceding claim deployed within or adjacent a vessel containing a fluid having a temperature profile, a second input (108) for receiving a second signal indicating a (preferably absolute) temperature of the fluid in the vessel (106) and a processor (110) configured to calculate a total thermal energy of the fluid in the vessel (106) based on the first and second signals. The invention also relates to a combination comprising a sensing arrangement and a controller; a device; and a system.



21: 2015/04873. 22: 2015/07/07. 43: 2021/07/06 51: A61K; A61P; C07D

71: KalVista Pharmaceuticals Limited

72: ALLAN, Christine Elizabeth, BATT, Andrzej Roman, DAVIE, Rebecca Louise, EDWARDS, Hannah Joy, EVANS, David Michael, PETHEN, Stephen John

33: GB 31: 1300304.1 32: 2013-01-08 33: US 31: 61/750,074 32: 2013-01-08

54: BENZYLAMINE DERIVATIVES 00: -

The present invention provides compounds of formula (I): compositions comprising such compounds; the use of such compounds in therapy (for example in the treatment or prevention of a disease or condition in which plasma kallikrein activity is implicated); and methods of treating patients with such compounds; wherein R1 to R3,

R5 to R9, A, P, V, W, X, Y and Z are as defined herein.



21: 2015/05283. 22: 2015/07/22. 43: 2021/07/06 51: D03D; F41H

71: SAATI S.p.A.

72: CANONICO, Paolo, GARIBOLDI, Paolo 33: IT 31: MI2013A000258 32: 2013-02-22 54: BALLISTIC PROTECTION TEXTILE CONSTRUCTION AND METHOD THEREFOR 00: -

A novel multiple orientation construction for the ballistic protection, the process for making it and the main ballistic results obtained thereby. Said construction comprises at least a textile element and one or more thermoplastic or thermosetting based elements. The first textile element (1) comprises textile fi- bers. The second element (2) may comprise thermoplastic, thermosetting, rubber or polymeric elastomer based matrix arrangements or thermoplastic films for ad- justing the textile construction characteristics according to the intended applica- tions and for assisting in reducing bullet impact damages. The above elements jointly cooperate in absorbing and spreading a bullet impact stress.



21: 2015/05386. 22: 2015/07/27. 43: 2021/07/06 51: C07K; C12N; G01N 71: Faron Pharmaceuticals Oy 72: MAKSIMOW, Mikael, SALMI, Marko, JALKANEN, Markku, JALKANEN, Sirpa 33: FI 31: 20130049 32: 2013-02-14 54: A METHOD FOR DETERMINING ACUTE RESPIRATORY DISTRESS SYNDROME (ARDS) RELATED BIOMARKERS, A METHOD TO MONITOR THE DEVELOPMENT AND TREATMENT OF ARDS IN A PATIENT 00: -

This invention concerns methods for monitoring the development of and for treatment of ARDS in a patient. The method for monitoring the development of ARDS is based on comparing the level or activity of the biomarkers obtained in a sample drawn at a later point of time to the levels or activities of the same biomarkers in a sample drawn at a previous point of time. A favourable change in the level or activity of a certain biomarker represents a regression of the disease (recovery of the patient), and, conversely, an adverse change in the level or activity of a certain biomarker represents a worsening of the disease. If, for example, the level or activity for one or more of the biomarkers monitored discontinues to show a favourable change or starts to show an unfavourable change, the treatment of the patient is enhanced by administering a therapeutically active agent useful in the treatment of ARDS. The invention concerns further a method for simultaneous determination of a multiple of biomarkers in a sample from a patient, wherein said biomarkers are related to ARDS. The level or the activity of the biomarkers is determined. The invention also concerns a diagnostic kit useful for carrying out the method, particularly a kit comprising

a chip, such as a microarray suitable for use in biochip technology.

21: 2015/05733. 22: 2015/08/11. 43: 2021/07/06 51: B60G 71: The Norman Trust 72: DOWLE, James John Alexander

33: GB 31: 1414248.3 32: 2014-08-12 54: VEHICLE SUSPENSION 00: -

Most forms of suspension use components that are "handed", i.e. suited only to the left- or right-hand side of the vehicle. We disclose a suspension assembly for a vehicle, comprising a suspension arm having at least one attachment point at one end thereof for securing the arm to a vehicle, an upright assembly comprising a wheel hub and having upper and lower mounting points, each allowing rotation of the assembly around a substantially vertical axis, the upright assembly being connected to the suspension arm at its upper and lower mounting points, via a bracket being a distinct part from the suspension arm but attached thereto, the bracket being attachable to the suspension arm in two alternative orientations thereby permitting fitment of the assembly on a left side or a right side of the vehicle. In this way, an interchangeable suspension arm arrangement is provided, especially suited to the steerable front wheels of a vehicle, which also provides a minimal number of unique parts but allows for those parts to be assembled into a left- or right-hand unit. In a preferred arrangement, the bracket receives one of the upper and the lower mounting points, and the suspension arm receives the other. Thus, the arm and the bracket define the mounting points for the rotatable upright assembly. A separate steering arm can be connected to the upright assembly in order to control its rotation and steer the vehicle as desired.



21: 2015/05877. 22: 2015/08/14. 43: 2021/07/06 51: A61K; C07D

71: GlaxoSmithKline Intellectual Property (No. 2) Limited

72: AMANS, Dominique, ATKINSON, Stephen John, HARRISON, Lee Andrew, HIRST, David Jonathan, LAW, Robert Peter, LINDON, Matthew, PRESTON, Alexander, SEAL, Jonathan Thomas, WELLAWAY, Christopher Roland

33: US 31: 61/781,583 32: 2013-03-14 54: 2,3-DISUBSTITUTED 1 -ACYL-4-AMINO-1,2,3,4-TETRAHYDROQUINOLINE DERIVATIVES AND THEIR USE AS BROMODOMAIN INHIBITORS

00: -

The present invention relates to novel compounds of formula (I), wherein R₁ is C₁₋₄alkyl, R₂ is C₁₋₄alkyl, C₃₋₇cycloalkyl, -CH₂CF₃₋, -CH₂OCH₃ or heterocyclyl; R₃ is C₁₋₄alkyl, -CH₂F, -CH₂OH or -CH₂O(O)CH₃; R₄ when present is as defined in claim 1; R₅ when present is H, halo, hydroxy or C₁₊₄alkyl, -O₇, -S₇, -SO₇, -SO₇, -SO₇, -N(C₁₊₄alkyl) - O - NC(O)(CH₃); Y is phenyl, heteroaromatic or pyridone any of which may be optionally substituted by 1, 2 or 3 substituents; W is CH or N; X is C or N; Y is C or N; and Z is CH or N; subject to the proviso that no more than 2 of W, X, Y and Z are N, pharmaceutical compositions containing such compounds and to their use as bromodomain inhibitors.



21: 2015/05909. 22: 2015/08/17. 43: 2021/07/06 51: A61K; A61P; C07D

71: Galapagos NV

72: DESROY, Nicolas, HECKMANN, Bertrand, BRYS, Reginald Christophe Xavier, JONCOUR, Agnès, PEIXOTO, Christophe, BOCK, Xavier 33: US 31: 61/781,174 32: 2013-03-14 54: COMPOUNDS AND PHARMACEUTICAL COMPOSITIONS THEREOF FOR THE TREATMENT OF INFLAMMATORY DISORDERS 00: -

The present invention discloses compounds according to Formula I: Wherein R^{1a}, R^{1a}, R², R⁴, R², R⁶, R³, R³, R³, W, X, Cy, and the subscript a are as defined herein. The present invention relates to compounds inhibiting autotaxin (NPP2 or ENPP2), methods for their production, pharmaceutical compositions comprising the same, and methods of treatment using the same, for the prophylaxis and/or treatment of diseases involving fibrotic diseases, proliferative diseases, inflammatory diseases, autoimmune diseases, respiratory diseases, cardiovascular diseases, neurodegenerative diseases, dermatological disorders, and/or abnormal angiogenesis associated diseaseshy administering the compound of the invention.



21: 2015/06034. 22: 2015/08/20. 43: 2021/07/06 51: H04W

71: Huawei Technologies Co., Ltd.

72: ZHANG, Tao, LIN, Bo, GAO, Yongqiang

54: COMMUNICATION METHOD, DEVICE, AND SYSTEM

00: -

Disclosed is a communication method, comprising: user equipment (UE) sending a request message to a micro network node, so that the micro network node sends an indication message to a macro network node; receiving an uplink resource UG sent by the macro network node according to the indication message; and sending uplink signaling or uplink data to the macro network node according to the uplink resource UG. Also provided in embodiments of the present invention are corresponding equipment and system. According to the technical solution of the present invention, because the micro network node participates in accessing the UE to a network, the UE can be quickly accessed to the network, thus reducing the access delay of the UE.



101 USER EQUIPMENT SENDING A REQUEST MESNAET DA UNCRN ETTWORK NOCE INDICATION MESSAET DA MACRO NETWORK NODE 102 THE USER EQUIPMENT RECEIVING AN UPLINK RESOURCE USE BENT BY THE MACRO NETWORK 103 THE USER EQUIPMENT SENDING UPLINK RESOURCE USE ACCORDING TO THE UPLINK RESOURCE USE

- 21: 2015/06037. 22: 2015/08/20. 43: 2021/07/06
- 51: A01N; A61K
- 71: Tactical Therapeutics, Inc
- 72: KARMALI, Rashida A.
- 33: US 31: 13/986,103 32: 2013-04-01

54: METHODS AND COMPOSITIONS FOR TREATING CANCERS HAVING ACQUIRED RESISTANCE TO CHEMOTHERAPEUTIC AND TARGETED DRUGS USING CARBOXYAMIDOTRIAZOLE OROTATE 00: -

This invention provides methods and compositions useful for treating early and late stage metastatic cancer to prevent or treat acquired resistance due to gene amplification or mutation in response to chemotherapeutic and/or targeted drugs. In particular, the methods and compositions include carboxiamidotriazole orotate (CTO) alone or in combination with specific regimens of chemotherapeutic and/or targeted drugs designed to overcome the genomic resistance raised to prior therapy.

21: 2015/06478. 22: 2015/09/03. 43: 2021/07/06

51: C12N

71: The Children's Hospital of Philadelphia 72: QU, Guang, WRIGHT, John Fraser 33: US 31: 61/787,818 32: 2013-03-15 54: SCALABLE MANUFACTURING PROCESS TO PRODUCE RECOMBINANT LENTIVIRAL VECTORS IN SERUM-FREE SUSPENSION CELL CULTURE SYSTEM

00: -

Methods for preparing highly purified rLV vector formulations at the scale needed to meet anticipated demand for human gene therapy are provided.



21: 2015/06581. 22: 2015/09/07. 43: 2021/07/06 51: A61K

- 71: Janssen Vaccines & Prevention B.V.
- 72: POOLMAN, Jan Theunis
- 33: US 31: 61/774,993 32: 2013-03-08

54: ACELLULAR PERTUSSIS VACCINE

The invention relates to an acellular pertussis (aP) vaccine composition comprising Bordetella pertussis antigens pertussis toxoid (PT), filamentous hemagglutinin (FHA), and fimbriae types 2 and 3 (FIM), and optionally pertactin (PRN), wherein FIM is present in an amount of 12-100 µg per human dose.

21: 2015/07053. 22: 2015/09/22. 43: 2021/07/06 51: F02F; F16J

71: Federal-Mogul Corporation

72: ZURFLUH, Thomas Olin, OROZCO, Daniel Joseph, VIRGIN, Wilford Dean 33: US 31: 61/798,624 32: 2013-03-15 54: ENGINE SPACER PLATE GASKET 00: -

A sealing assembly for establishing a gas and fluid tight seal in an internal combustion engine (18) is provided. The sealing assembly includes a plate (26) of metal which has a plurality of openings and at least one generally flat surface. The plate also has at least one shelf (27) which circumferentially surrounds one of the openings and which opens to the generally flat surface and the opening. The sealing assembly further includes at least one sealing bead (28) of an elastically compressible material which is engaged with the shelf and extends outwardly therefrom past the generally flat surface for sealing the plate with another component in the internal combustion engine.



- 21: 2015/08183. 22: 2015/11/05. 43: 2021/07/06 51: B60H; H01M
- 71: Sandvik Mining and Construction Oy

72: LINDHOLM, Kari, VÄRE, Ville, KOUVO, Mikko

33: EP(FI) 31: 14192036.3 32: 2014-11-06

54: MINING MACHINE AND CHARGING STATION COMPRISING REFRIGERATION CIRCUITS 00: -

There is provided a charging station, and a mining machine comprising a battery for storing electrical energy, a refrigerant circuit for circulating a refrigerant via the battery, and a connection for connecting the refrigerant circuit to a refrigerant circuit of a charging station via a fluid-fluid heat exchanger.



21: 2016/00095. 22: 2016/01/06. 43: 2021/07/06 51: A61P 71: The Board of Trustees of the Leland Stanford Junior University
72: HELMS, Jill, DHAMDHERE, Girija
33: US 31: 61/957,946 32: 2013-07-16
54: ENHANCEMENT OF OSTEOGENIC

POTENTIAL OF BONE GRAFTS

00: -

The present invention concerns the enhancement of cell survival and osteogenic potential of bone graft by ex vivo treatment with a Wnt polypeptide, such as a liposomal Wnt polypeptide. In particular, the invention concerns the ex vivo treatment of bone grafts with a human Wnt3a protein, preferably liposomal human Wnt3a (LWnt3a).

21: 2016/00648. 22: 2016/01/29. 43: 2021/07/06

51: A61K; A61P; C07D

71: Acea Biosciences Inc.

72: XU, Xiao, WANG, Xiaobo, MAO, Long, ZHAO, Li, XI, Biao

33: US 31: 61/680,231 32: 2012-08-06

54: NOVEL PYRROLOPYRIMIDINE COMPOUNDS AS INHIBITORS OF PROTEIN KINASES 00: -

The present invention relates to certain pyrrolopyrimidine derivatives, pharmaceutical compositions containing them, and methods of using them, including methods for the treatment of proliferation disorders and other diseases related to the dysregulation of kinase (such as, but not limited to, EGFR (including HER), Alk, PDGFR, BLK, BMX/ETK, BTK, FLT3 (D835Y), ITK, JAKI, JAK2, JAK3, TEC and TXK) and/or the respective pathways.



21: 2016/03603. 22: 2016/05/26. 43: 2021/07/20 51: E21D; F16K 71: BARRY GRAEME HOLFELD 72: Barry Graeme HOLFELD 33: ZA 31: 2015/02030 32: 2015-03-25 54: A VALVE 00: -

A valve for use with a device which is to be internally pressurized by a pressurized fluid, the valve including a body, a passage through the body, an inlet to the passage, an outlet from the passage, a valve seat inside the passage, a valve member inside the passage which is engageable with the valve seat, an attachment formation on the body for connecting the inlet to a source of pressurized fluid, the valve member being movable at least by pressure of the fluid, out of engagement with the valve seat towards the outlet, and a guide structure between the inlet and the valve seat, for guiding movement of the valve member out of engagement with the valve seat, such that the fluid flows from the inlet through the passage into the device.



21: 2016/03924. 22: 2016/06/09. 43: 2021/08/19 51: C07K

71: BEEOLOGICS, INC.

72: GLEIT¿KIELMANOWICZ, Merav, GOLANI, Yael

33: US 31: 61/913,917 32: 2013-12-10

33: US 31: 62/069,142 32: 2014-10-27

54: COMPOSITIONS AND METHODS FOR VIRUS CONTROL IN VARROA MITE AND BEES 00: -

Compositions and methods for providing viral control in Varroa mites and bees using RNA interference technology, and more particularly, prevention and treatment of viral infections in Varroa mites and bees by providing trigger polynucleotides targeting viral sequences is disclosed.

21: 2017/01545. 22: 2017/03/02. 43: 2021/08/16 51: A61K; C07K; A61P

71: THE REGENTS OF THE UNIVERSITY OF CALIFORNIA

72: LIU, Bin, SU, Yang, BIDLINGMAIER, Scott, BEHRENS, Christopher R., LEE, Namkyung 33: US 31: 62/049,973 32: 2014-09-12 54: MACROPINOCYTOSING HUMAN ANTI-CD46 ANTIBODIES AND TARGETED CANCER THERAPEUTICS

00: -

In various embodiments human anti-CD46 antibodies that are internalizing and enter tumor cells via the macropinocytosis pathway are provided, as well as antibody-drug conjugates (ADCs) developed from these antibodies for diagnostic and/or therapeutic targeting of CD46-overexpressing tumors.



21: 2017/01733. 22: 2017/03/09. 43: 2021/08/25 51: A61K; C07K; G01N 71: NEURIMMUNE HOLDING AG 72: MONTRASIO, Fabio, GRIMM, Jan 33: EU 31: 14187180.6 32: 2014-09-30 33: EU 31: 15180310.3 32: 2015-08-07 54: HUMAN-DERIVED ANTI-DIPEPTIDE REPEATS (DPRS) ANTIBODY

00: -

Provided are novel human-derived dipeptide repeat (DPR) specific antibodies as well as synthetic variants and biotechnological derivatives thereof, preferably capable of binding C9ORF72 DPRs, as well as methods related thereto. Assays, kits, and solid supports related to antibodies specific for DPRs and DPR proteins such C9ORF72 DPRs are also disclosed. The antibody of the present invention can be used in pharmaceutical and diagnostic compositions for DPR protein-targeted immunotherapy and diagnostics.

21: 2017/01852. 22: 2017/03/15. 43: 2021/08/03 51: A61K; C07K 71: CHEMOCENTRYX, INC. 72: EBSWORTH, Karen, WANG, Yu, ZENG, Yibin, ZHANG, Penglie, TAN, Joanne 33: US 31: 62/060,454 32: 2014-10-06 54: COMBINATION THERAPY OF INHIBITORS OF C-C CHEMOKINE RECEPTOR TYPE 9 (CCR9) AND ANTI-ALHA4BETA7 INTEGRIN BLOCKING ANTIBODIES 00: -

Provided herein are compositions, methods and kits for treating inflammatory bowel disease (IBD) such as Crohn's disease and ulcerative colitis in a mammal in need thereof. The method include administering to a subject with IBD a combination therapy containing a therapeutically effective amount of a chemokine receptor 9 (CCR9) inhibitor

compound and a therapeutically effective amount of an anti-a4p7 integrin antibody such as vedolizumab. Also provided herein is a kit containing the CCR9 inhibitor compound and anti-a4p7 integrin antibody.



21: 2017/02053. 22: 2017/03/23. 43: 2021/07/06 51: A61K; C12N

71: Beth Israel Deaconess Medical Center, Inc., Janssen Vaccines & Prevention B.V.
72: BAROUCH, Dan, SCHUITEMAKER, Johanna, PAU, Maria Grazia, VAN MANEN, Danielle, TOMAKA, Frank, HENDRIKS, Jennifer Anne
33: US 31: 62/056,059 32: 2014-09-26
54: METHODS AND COMPOSITIONS FOR
INDUCING PROTECTIVE IMMUNITY AGAINST
HUMAN IMMUNODEFICIENCY VIRUS INFECTION

00: -

Compositions, vaccines and methods for inducing protective immunity against Human Immunodeficiency Virus (HIV) infection are described. Heterologous vaccine combinations of one or more viral expression vectors and an isolated antigenic polypeptide induced strong protective immunity against infections by one or multiple clades of HIV.



21: 2017/02235. 22: 2017/03/30. 43: 2021/08/24 51: C07K

71: DUKE UNIVERSITY, MACROGENICS, INC., UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

72: Barton, F. HAYNES, Guido FERRARI, Scott KOENIG, Leslie, S. JOHNSON, Chia-Ying, Kao LAM, Julia, A. SUNG, David, M. MARGOLIS, Liqin LIU, Jeffrey, Lee NORDSTROM 33: US 31: 62/056,834 32: 2014-09-29 33: US 31: 62/206,586 32: 2015-08-18 54: BISPECIFIC MOLECULES COMPRISING AN HIV-1 ENVELOPE TARGETING ARM 00: -

The invention is directed to bispecific molecules comprising an HIV-1 envelope targeting arm and an arm targeting an effector cell, compositions comprising these bispecific molecules and methods of use. In certain aspects, the bispecific molecules of the present invention can bind to two different targets or epitopes on two different cells wherein the first epitope is expressed on a different cell type than the second epitope, such that the bispecific molecules can bring the two cells together. In certain aspects, the bispecific molecules of the present invention can bind to two different cells, wherein the bispecific molecules comprises an arm with the binding specificity of A32, 7B2, CH27, CH28 or CH44.



21: 2017/03501. 22: 2017/05/22. 43: 2021/07/06 51: A61K; A61P; C07D

71: Array BioPharma Inc.

72: ARRIGO, Alisha B., JUENGST, Derrick, SHAH, Khalid

33: US 31: 62/080,374 32: 2014-11-16 54: CRYSTALLINE FORM OF (S)-N-(5-((R)-2-(2,5-DIFLUOROPHENYL)-PYRROLIDIN-1-YL)-PYRAZOLO[1,5-A]PYRIMIDIN-3-YL)-3-HYDROXYPYRROLIDINE-1-CARBOXAMIDE HYDROGEN SULFATE 00: -

A novel crystalline form of (S)-N-(5-((R)-2-(2,5difluorophenyl)pyrrolidin-1-yl)-pyrazolo[1,5a]pyrimidin-3-yl)-3-hydroxypyrrolidine-1carboxamide, pharmaceutical compositions containing said crystalline form and the use of said crystalline form in the treatment of pain, cancer, inflammation, neurodegenerative disease or Trypanosoma cruzi infection are disclosed. In some embodiments, the novel crystalline form comprises a stable polymorph of (S)-N-(5-((R)-2-(2,5difluorophenyl)pyrrolidin-1-yl)-pyrazolo[1,5a]pyrimidin-3-yl)-3-hydroxypyrrolidine-1-carboxamide hydrogen sulfate. The present invention is further directed to a process for the preparation of the novel crystalline form.

21: 2017/07995. 22: 2017/11/23. 43: 2018/09/06 51: E01F 71: BAEK, Kyoungpa 72: BAEK, Kyoungpa 33: KR 31: 10-2015-0089368 32: 2015-06-25 54: SHOCK-ABSORBING BARRIER USING PILLARS AND RAIL 00: - Disclosed is a shock-absorbing barrier. According to the present invention, the shock-absorbing barrier is configured wherein guardrails onto which shockabsorbing members Like waste tires or waste rubber are mounted are attached to barrier walls and pillar bodies made by attaching pillar tubes to pillars are connectedly erected by means of the barrier walls on which the guardrails are mounted, so that if an external collision occurs, rotary rods are changed to a shape of a cone around the axis of the pillar tube rail to extend a shock-absorbing section, and the external collision is distributed by the compression and tension of both side rails to decrease the deviation displacement of the barrier wall boundary and to allow the pressure of the collision portion to be distributedly absorbed to the parts connected by the guardrails.



21: 2017/08195. 22: 2017/12/01. 43: 2021/06/22 51: B65B 71: ULMA PACKAGING TECHNOLOGICAL CENTER, S.COOP. 72: Eneko IZQUIERDO EREÑO, Aitor OLALDE TOME, Iosu UGARTE BARRENA 33: EP 31: 15382359.6 32: 2015-07-07 54: METHOD, MACHINE AND INSTALLATION FOR VACUUM PACKAGING OF PRODUCTS 00: -

Method, machine and installation for vacuum packaging of products (P), where a plurality of individual bags closed at one end and open at the opposite end with at least one product (P) therein are generated. For generating the bags (1), a transverse cut and a complete transverse seal on both sides of the transverse cut are made on the film tube (3), and a transverse cut without complete transverse seals on the sides thereof is made at a distance (L) substantially equal to the desired length of the bag (1) to be generated from the transverse cut and seal on both sides. Each bag (1) is oriented at 180° with respect to the bag (1) previously generated in the forward movement direction (X).



21: 2017/08283. 22: 2017/12/06. 43: 2021/08/24 51: F16J

71: DSI GETRÄNKEARMATUREN GMBH

72: Harald STEINMETZ

33: DE 31: 10 2015 111 376.7 32: 2015-07-14 54: MARKED KEG/CASK SEAL, AND METHOD FOR DETERMINING THE AGE OF A KEG/CASK SEAL

00: -

The invention relates to a keg/cask seal (1) for a keg or cask containing a beverage, characterized in that a color mark (7) is arranged in a geometrically defined shape on a top side (6) of the keg/cask seal (1). The geometrically defined color mark (7) allows a conclusion to be drawn about the time lapsed since the keg/cask seal (1) was installed.



21: 2018/01761. 22: 2018/03/15. 43: 2021/08/24 51: A61K; A61L; C08B; A61Q 71: MERZ PHARMA GMBH & CO. KGAA 72: KRAUSE, Andreas 33: EP 31: 15002953.6 32: 2015-10-16 54: IN SITU CROSS-LINKABLE POLYSACCHARIDE COMPOSITIONS AND USES THEREOF 00: -

The present invention relates to a sterile in situ cross-linkable polysaccharide compositions for augmenting, filling or replacing soft tissues in various cosmetic and therapeutic applications. The composition comprises a first polysaccharide derivative functionalized with a nucleophilic group and a second polysaccharide derivative functionalized with an electrophilic group. Said nucleophilic and electrophilic functional groups spontaneously form in situ covalent linkages following co-injection in the body of a patient, resulting in the formation of a cross-linked hydrogel at the site of co-injection.

- 21: 2018/02019. 22: 2018/03/27. 43: 2021/08/03
- 51: A61K; C07K

71: FREDAX AB

72: TRAN, Amanda Thuy, AXELSSON, Anders, MALMBORG HAGER, Cecilia Ann-Christin, SJÖSTRÖM, Kjell, STRAND, Sven-Erik, LAMMINMÄKI, Urpo Juhani 33: GB 31: 1517550.8 32: 2015-10-05 33: GB 31: 1519105.9 32: 2015-10-29 54: HUMANIZED ANTI PSA (5A10) ANTIBODIES 00: -

The present disclosure provides antibody polypeptides with binding specificity for prostate specific antigen (PSA), wherein the antibody polypeptide comprises: (a) a heavy chain variable region comprising the amino acid sequences TTGMGVS, HIYWDDKRYSTSLK and KGYYGYFDY and/or (b) a light chain variable region comprising the amino acid sequences and RASQNVNTDVA, STSYLQS and QQYSNYPLT, and wherein the heavy chain variable region and light chain variable region comprise framework amino acid sequences from one or more human antibodies. The application further provides use of said antibody polypeptides in the diagnosis and treatment of prostate cancer. The experimental results demonstrate that the humanised antibody h5A10, effectively targets prostate tumours in vivo, exhibits better tumor

accumulation than its m5A10 and provides better imaging contrast (as shown with 15 higher tumor-toorgan ratios) than the murine antibody.



21: 2018/02220. 22: 2018/04/05. 43: 2021/08/16 51: F16K; F16L 71: VICTAULIC COMPANY 72: PARK, Yang, Bae 33: US 31: 62/258,797 32: 2015-11-23 54: VALVE COUPLING HAVING CENTERING

SUPPORT PROJECTIONS

00: -

A valve coupling for joining pipe elements includes a valve housing surrounded by coupling segments. Projections extend from the segments and engage channels in the valve housing. Engagement between the projections and the channels guides the segments as they are drawn together to engage the pipe elements and secures the valve housing between the segments.



21: 2018/02651. 22: 2018/04/20. 43: 2021/08/16 51: C07C 71: SENNICS CO., LTD. 72: CHO. Xianguun, XING. Jinguo, BLIAN, Xiang

72: GUO, Xiangyun, XING, Jinguo, RUAN, Xiaomin, CHEN, Xinmin

33: CN 31: 201510691388.9 32: 2015-10-21 54: PREPARATION METHOD FOR ARYL SUBSTITUTED P-PHENYLENEDIAMINE SUBSTANCE 00: -

A preparation method for an aryl substituted pphenylenediamine substance is provided. A structural formula of the aryl substituted pphenylenediamine substance is shown as Formula (I'), where R'' is phenyl or o-methylphenyl, and R' is the same as or different from R"; and the preparation method comprises that: a raw material A and a raw material B are reacted in the presence of a hydrogen acceptor and a catalyst to form the aryl substituted p-phenylenediamine substance, the raw material A having a structure shown as Formula (I), the raw material B being cyclohexanone and/or omethylcyclohexanone and the hydrogen acceptor being a hydrogen acceptor capable of accepting hydrogen for conversion into the raw material B. According to the preparation method, the raw materials are low in cost and readily available, and use of a large amount of water for posttreatment of reaction is avoided. Moreover, a reaction condition is relatively mild, and corrosion to reaction equipment is avoided. Therefore, the preparation method is

environment-friendly and less in pollution, and may achieve better economic benefits.



21: 2018/06234. 22: 2018/09/17. 43: 2021/08/24 51: F42C

71: Detnet South Africa (Pty) Ltd

72: BEUKES, Christo Andre 54: CONNECTOR

00: -

A detonator arrangement wherein a part of a detonator is in a housing, a first lead extends from the housing, a component of the detonator is in a coupler, and a flexible lead, attached to the coupler, can be connected to the first lead.



21: 2018/06314. 22: 2018/09/20. 43: 2021/07/06 51: H04N

71: QUALCOMM Incorporated 72: SEREGIN, Vadim, ZHAO, Xin, SAID, Amir,

KARCZEWICZ, Marta

33: US 31: 62/311,265 32: 2016-03-21

54: USING LUMA INFORMATION FOR CHROMA PREDICTION WITH SEPARATE LUMA-CHROMA FRAMEWORK IN VIDEO CODING 00: -

A method of decoding video data comprises receiving a bitstream of encoded video data, the encoded video data representing partitioned luma blocks and partitioned chroma blocks, wherein the chroma blocks are partitioned independently of the luma blocks, determining a respective coding mode corresponding to the respective partitioned luma blocks, decoding the respective partitioned luma blocks according to the determined respective coding modes, decoding a first syntax element indicating that the respective coding modes associated with the respective partitioned luma blocks are to be used for decoding a first partitioned chroma block, wherein the first partitioned chroma block is aligned with two or more partitioned luma blocks, determining a chroma coding mode for the first partitioned chroma block according to a function of the respective coding modes of the two or more partitioned luma blocks, and decoding the first partitioned chroma block in accordance with the determined chroma coding mode.



21: 2018/06404. 22: 2018/09/26. 43: 2021/08/03 51: A61K; C07K 71: MACROGENICS, INC. 72: Deryk T. LOO, Ling HUANG, Leslie S. JOHNSON, Thomas SON, Juniper SCRIBNER, Ezio BONVINI 33: US 31: 62/432.314 32: 2016-12-09 33: US 31: 62/323.228 32: 2016-04-15 33: US 31: 62/323,249 32: 2016-04-15 54: NOVEL B7-H3 BINDING MOLECULES, ANTIBODY DRUG CONJUGATES THEREOF AND **METHODS OF USE THEREOF** 00: -The present invention is directed to novel B7-H3binding molecules capable of binding to human and non-human B7-H3, and in particular to such molecules that are cross-reactive with B7-H3 of a

non-human primate (e.g., a cynomolgus monkey). The invention additionally pertains to B7-H3-binding molecules that comprise Variable Light Chain and/or Variable Heavy Chain (VH) Domains that have been humanized and/or deimmunized so as to exhibit a reduced immunogenicity upon administration to recipient subjects. The invention particularly pertains to bispecific, trispecific or multispecific B7-H3binding molecules, including bispecific diabodies, BiTEs, bispecific antibodies, trivalent binding molecules, etc. that comprise: (i) such B7-H3-binding Variable Domains and (ii) a domain capable of binding to an epitope of a molecule present on the surface of an effector cell. The invention also particularly pertains to a molecule that comprises the human B7-H3 binding domain of a humanized antihuman B7-H3 antibody conjugated to at least one drug moiety (a "B7-H3-ADC").





21: 2018/06983. 22: 2018/10/19. 43: 2021/07/06 51: G06Q

71: LANGTON, Craig Edward, COSTELHA, Armando Miguel da Silva Ramos
72: LANGTON, Craig Edward, COSTELHA, Armando Miguel da Silva Ramos
33: ZA 31: 2017/07166 32: 2017-10-23
54: LEISURE EQUIPMENT AND EXPERIENCE SYSTEM

00: -

A system for subscribing to a periodic recurring leisure experience, the system including a server with a processor, an associated database, and a communications interface, a plurality of mobile communication devices associated with subscribers to the system, and at least one leisure equipment location where a selection of leisure equipment is located; the system configured for the server to receive through the communications interface a subscription request and payment for a subscriber to be subscribed to system; for the server to register details of the subscriber and his subscription on the database; for the server to provide access to a communication device associated with the subscriber; for the server to store on the database a leisure experience selection including a schedule of leisure equipment located at the at least one leisure equipment location; to provide the subscriber with data input means through the subscriber's communication device to request a listing of leisure equipment available for use over a date range specified by the subscriber, alternatively to request a listing of date ranges on which a leisure equipment item selected from a list of leisure equipment available in accordance with the subscriber's subscription; for the processor to process the request received from the subscriber's communication device to generate a result including a listing of one or more of leisure equipment, date ranges and locations where the leisure equipment is located; for the server to transmit to the subscriber's communication device the result for communication thereof to the subscriber operating the device; for the server to receive data input from the subscriber's communication device to reserve a selected leisure equipment item for use by the subscriber over a determined data range; for the server to transmit to an interface associated with the leisure equipment location a reservation note confirming the reservation of the leisure equipment item for the subscriber for the selected date range, and for the server to transmit to the subscriber's communication device confirmation of the reservation of the leisure equipment item for the selected date range, the leisure equipment location, a collection date and time to receive the leisure equipment item at a return location, preferably the leisure equipment location, and preferably also a return date, time and location for the leisure equipment; the system operatively allowing a subscriber to select a leisure equipment item from a range of leisure equipment available to the subscriber according to his subscription for use over a date range, reserving the selected leisure equipment item for use by the subscriber over the date range, and providing the subscriber with confirmation of the reservation to collect and return the selected leisure equipment item at a predeterminable date, time and location, with payment for the use being made by the subscriber's subscription to the system.

21: 2018/06984. 22: 2018/10/19. 43: 2021/07/06 51: G06Q

71: LANGTON, Craig Edward 72: LANGTON, Craig Edward, COSTELHA, Armando Miguel da Silva Ramos 33: ZA 31: 2017/07167 32: 2017-10-23 54: INSURANCE SYSTEM 00: -

An insurance system which includes a server with a processor, an associated database, and a communications interface, a plurality of mobile tracking devices each associated with a mobile asset related to a subscriber to the system, and at least one base location associated with each asset; the system configured for the server to register details of a subscriber to the system and his subscription on the database; for the processor to determine comprehensive coverage and reduced coverage insurance premiums for all of the subscriber's insured assets; for the processor to determine a collective insurance premium for all of the subscriber's insured assets based on comprehensive insurance for the asset with the highest insurance cost and reduced insurance coverage for the balance of the subscribers assets; for the server to receive, through the communications interface. location data relating to each of the insured assets; for the processor to process the location data; for the processor to determine a periodic insurance premium by applying comprehensive insurance coverage to each asset whilst it is in use, either alone or in association with another asset, and reduced coverage whilst the asset is not in use, the insurance system operatively allowing a subscriber to insure multiple mobile assets at the comprehensive insurance cost of the asset with the highest insurance cost and the insurance cost for reduced coverage for the remainder of the assets, and to only pay comprehensive insurance for an asset whilst it is in use.

21: 2018/07076. 22: 2018/10/24. 43: 2021/08/03 51: B65D 71: GRIFOLS WORLDWIDE OPERATIONS LIMITED 72: ORIOLS GAJA, Joan 33: EP 31: 17382828.6 32: 2017-12-01

54: DEVICE FOR OPENING AND CLOSING CONTAINER LIDS

00: -

Device for opening and closing container lids for controlling the movement of a lid during the opening and closing thereof, characterised in that said device comprises: a) a fixed structure which is connected to the container; b) a resilient means which generates a force on the lid, the magnitude of which varies according to the relative position of the lid; and c) a common rotary shaft that hinges the lid to the fixed structure; the lid receiving the force of the resilient means at a point that is remote from the common rotary shaft, which is arranged such that the force exerted by the resilient means compensates for the weight of the lid.



21: 2018/07202. 22: 2018/10/29. 43: 2021/07/06 51: C12N; C12Q; G01N 71: DURBAN UNIVERSITY OF TECHNOLOGY 72: SABELA, Myalowenkosi I., KANCHI, Suvardhan, MPANZA, Thabani, BISETTY, Krishna 33: ZA 31: 2017/07307 32: 2017-10-27 54: AN APTAMER, A METHOD OF PRODUCING AN ELECTROCHEMICAL APTASENSOR, AN APTASENSOR, AND AN APTASENSOR SYSTEM 00: -

This invention relates to an aptamer, a method of producing an electrochemical aptasensor, an

aptasensor, an aptasensor system, and a method for determining an amount of capsaicin present in a sample of target material. The aptamer is one having SEQ ID NO. 1: CGC AAA TTT GCG and is provided for use in selectively binding to a compound of a plant of a Solanaceae family. In this regard, the aptasensor comprises an electrode effectively coated with the aptamer. Moreover, the system is typically configured to obtain electrical signals from the aptasensor in response to contact with a sample and generate an output indicative of the Scoville Heat Units of the sample.



21: 2018/07431. 22: 2018/11/06. 43: 2021/08/12 51: A61K; C12N; A61P

71: CELULARITY INC.

72: FISCHKOFF, Steven, HERZBERG, Uri, KANG, Lin, MURPHY, Brian, NORDBERG, Andrea, VOSKINARIAN-BERSE, Vanessa, WILSON, Keith, ZHANG, Xiaokui, MYINT, Han, HUSSEIN, Mohamed 33: US 31: 62/415,954 32: 2016-11-01 33: US 31: 62/333,187 32: 2016-05-07 33: US 31: 62/333,186 32: 2016-05-07 33: US 31: 62/415,918 32: 2016-11-01 54: METHODS OF TREATING ACUTE MYELOID LEUKEMIA AND MULTIPLE MYELOMA USING NATURAL KILLER CELLS

00: -

Provided herein are methods of treating acute myeloid leukemia (AML) and multiple myeloma (MM) by administering an effective amount of a cell population comprising natural killer cells, wherein the cell population comprising natural killer cells is produced by a three-stage method comprising culturing a population of hematopoietic stem or progenitor cells in media comprising stem cell mobilizing factors, e.g., three-stage methods of producing NK cells in media comprising stem cell mobilizing factors starting with hematopoietic stem or progenitor cells from cells of the placenta, for example, from placental perfusate (e.g., human placental perfusate) or other tissues, for example, umbilical cord blood or peripheral blood. Further provided herein are methods of using the NK cells produced by the three-stage methods provided herein to suppress the proliferation of acute myeloid leukemia cells. In certain embodiments, the NK cells produced by the three-stage methods described herein are used in combination with IL-2.

21: 2018/07766. 22: 2018/11/19. 43: 2021/07/06 51: A61K; A61P; C07D

71: AstraZeneca AB

72: HIRD, Alexander, BELMONTE, Matthew Alan, YANG, Wenzhan, SECRIST, John Paul, ROBBINS, Daniel William, KAZMIRSKI, Steven Lee, WU, Dedong, PENG, Bo, JOHANNES, Jeffrey, LAMB, Michelle Laurae, YE, Qing, ZHENG, XiaoLan 33: US 31: 62/326,156 32: 2016-04-22 54: MACROCYCLIC MCL1 INHIBITORS FOR TREATING CANCER 00: -

l: -

Disclosed is a compound which is 17-chloro-5,13,14,22-tetramethyl-28-oxa-2,9-dithia-5,6,12,13,22-

pentaazaheptacyclo[27.7.1.14,7.011,15.016,21.020, 24.030,35]octatriaconta-

1(37),4(38),6,11,14,16,18,20,23,29,31,33,35tridecaene-23-carboxylic acid (Formula I) and enantiomers and pharmaceutically acceptable salts thereof. Also disclosed are pharmaceutical compositions of 17-chloro-5,13,14,22-tetramethyl-28-oxa-2,9-dithia- 5,6,12,13,22-

pentaazaheptacyclo[27.7.1.14,7.011,15.016,21.020, 24.030,35]octatriaconta-

1(37),4(38),6,11,14,16,18,20,23,29,31,33,35tridecaene-23-carboxylic acid, and enantiomers and pharmaceutically acceptable salts thereof, and methods of treating cancer with such compounds and compositions.



21: 2019/00353. 22: 2019/01/17. 43: 2021/08/24 51: A61K; C07K

71: KYMAB LIMITED

72: CAMPBELL, Jamie, SANDY, Nikole, VAN KRINKS, Cassandra, ARKINSTALL, Stephen John, GERMASCHEWSKI, Volker, KIRBY, Ian, KOSMAC, Miha, GALLAGHER, Thomas, DEANTONIO, Cecilia, GILLIES, Stephen, Douglas 33: US 31: 62/352,291 32: 2016-06-20 33: US 31: 15/211,504 32: 2016-07-15 33: US 31: 15/354,971 32: 2016-11-17 33: US 31: 15/480,525 32: 2017-04-06 33: GB 31: 1613683.0 32: 2016-08-09 33: GB 31: 1615224.1 32: 2016-09-07 33: GB 31: 1615335.5 32: 2016-09-09 33: GB 31: 1620414.1 32: 2016-12-01 33: GB 31: 1621782.0 32: 2016-12-20 33: GB 31: 1702338.3 32: 2017-02-13 33: GB 31: 1702339.1 32: 2017-02-13 33: GB 31: 1703071.9 32: 2017-02-24 54: ANTI-PD-L1 ANTIBODIES

00: -

The present invention relates to anti-PD-L1 antibodies, bispecific antibodies containing one domain with specificity to PD-L1, and to immunocytokines comprising an anti-PD-L1 antibody fused to a cytokine, such as IL-2. The present invention also provides methods of treatment, uses and pharmaceutical compositions comprising the antibodies, bispecific antibodies and immunocytokines.

21: 2019/00664. 22: 2019/01/31. 43: 2021/07/06 51: C07K 71: Immatics Biotechnologies GmbH
72: ALTEN, Leonie, MAURER, Dominik, WALTER, Steffen, BUNK, Sebastian
33: DE 31: 10 2016 115 246.3 32: 2016-08-17
33: US 31: 62/376,059 32: 2016-08-17
54: T CELL RECEPTORS AND IMMUNE
THERAPY USING THE SAME
00: -

The present invention pertains to antigen recognizing constructs against COL6A3 antigens. The invention in particular provides novel T cell receptor (TCR) based molecules which are selective and specific for the tumor expressed antigen COL6A3. The TCR of the invention, and COL6A3 antigen binding fragments derived therefrom, are of use for the diagnosis, treatment and prevention of COL6A3 expressing cancerous diseases. Further provided are nucleic acids encoding the antigen recognizing constructs of the invention, vectors comprising these nucleic acids, recombinant cells expressing the antigen recognizing constructs and pharmaceutical compositions comprising the compounds of the invention.

21: 2019/00728. 22: 2019/02/04. 43: 2021/06/23 51: E01C

71: ROADTEC, INC.

72: CHRISTIAN, Richard, Baker IV, Raymond Clark 33: US 31: 62/629,296 32: 2018-02-12 54: COLD IN-PLACE RECYCLING WITH HEATING ASSEMBLY INCLUDING A HEATER FOR ASPHALT CEMENT AND A HEAT-MODIFYING COMPONENT

00: -

A CIR train that is adapted to traverse a roadway of pavement in order to remove paving material from the pavement and recycle such paving material by mixing it with asphalt cement which includes a milling machine for milling the pavement and removing milled paving material from the roadway; an asphalt cement supply tank that is separate from the milling machine; a mechanism for dispensing asphalt cement onto paving material that has been removed from the roadway by the milling machine; an asphalt cement flow circuit that provides for the flow of asphalt cement from the asphalt cement supply tank to the mechanism for dispensing asphalt cement onto the paving material that has been removed from the roadway, said asphalt cement flow circuit including an asphalt cement pump for

pumping asphalt cement from the asphalt cement supply tank into and through the asphalt cement flow circuit and a heating assembly that is interposed in the asphalt cement flow circuit between the asphalt cement supply tank and the mechanism for dispensing asphalt cement onto paving material that has been removed from the roadway.

21: 2019/00873. 22: 2019/02/11. 43: 2021/08/24 51: A61M

71: POLY MEDICURE LIMITED 72: POLY MEDICURE LIMITED 33: IN 31: 201611026278 32: 2016-08-01 54: INTRAVENOUS CATHETER APPARATUS WITH SAFETY FUNCTION AND PRESSURE CONTROLLED VALVE ELEMENT 00: -

The invention relates to an intravenous catheter apparatus comprising: a catheter hub (12) arranged at a proximal end of a catheter tube (10), the catheter hub (12) having an inner surface (14) defining a chamber (16); a needle (20) defining an axial direction and having a needle tip (24), the needle (20) extending through the chamber (16) and the catheter tube (10) when in a ready position; a needle guard (32) slidably arranged on the needle (20) and at least partially received in the chamber (16) when the needle (20) is in the ready position, the needle guard (32) including a base portion (34) and first and second arms (36, 38) extending from the base portion (34), wherein the first arm (36) is deflected radially outwards by the needle (20) against a restoring force when the needle (20) is in the ready position whereby the needle guard (32) is brought into retaining contact with the catheter hub (12); and wherein the catheter apparatus includes a valve which separates a distal space arranged in distal direction from the valve from a proximal space arranged on proximal direction from the valve. The invention further provides that the valve opens based on a pressure differential between the pressure prevailing in the distal space and the pressure prevailing in the proximal space.



21: 2019/01343. 22: 2019/03/04. 43: 2021/08/03 51: A47C 71: MADAD PTY LTD 72: JUST, Morrison 33: AU 31: 2016903434 32: 2016-08-29 54: MATTRESS 00: -

A mattress (10) that provides an edge support feature that remains firmly supportive throughout bending of the mattress on an adjustable foundation, while also providing a flat, tailored finish for the side of the mattress. The mattress has a base, an upper surface, and two side walls extending between two end walls such that the base, upper surface, side walls, and end walls define a cavity comprising a mattress support, such as a spring unit, that supports the upper surface above the base. The side walls and/or end walls comprise an edge support system having a plurality of overlapping edge segments.



21: 2019/01430. 22: 2019/03/07. 43: 2021/06/23 51: A61K: C07D: A61P

71: Gilead Sciences, Inc.

72: GRAUPE, Michael, HENRY, Steven J., LINK, John O., ROWE, Charles William, SAITO, Roland D., SCHROEDER, Scott D., STEFANIDIS, Dimitrios, TSE, Winston C., ZHANG, Jennifer R. 33: US 31: 62/377,312 32: 2016-08-19 33: US 31: 62/457,555 32: 2017-02-10 54: THERAPEUTIC COMPOUNDS USEFUL FOR THE PROPHYLACTIC OR THERAPEUTIC TREATMENT OF AN HIV VIRUS INFECTION 00: -

The present disclosure relates to a compound of formula (Ia), (Ib), (IIa), and (IIb) which are useful in the treatment of a Retroviridae viral infection including an infection caused by the HIV virus.



21: 2019/01451. 22: 2019/03/08. 43: 2021/08/24 51: B62B

- 71: BABYZEN

72: CHAUDEURGE, Jean-Michel

33: FR 31: 1658570 32: 2016-09-14 54: PUSHCHAIR ACCESSORY, AND A TRANSPORT ASSEMBLY COMPRISING A PUSHCHAIR AND SUCH AN ACCESSORY 00: -

This accessory (20), such as a platform for a pushchair, comprises a frame (21), which is provided with at least one wheel (22), and a device (23) for reversibly connecting to the frame (11) of a pushchair (10), this device being supported by the frame. In order for this accessory to be able to be firmly, effectively, aesthetically and very easily connected to the pushchair, the device (23) is suitable for being attached between a left-hand upright (16G) and a right-hand upright (16D) of the pushchair (10), which respectively belong to a left-hand rear portion (11.1G) and to a right-hand rear portion (11.1D) of the frame (11) of the pushchair, which are parallel to each other and have respective

faces, facing each other, in which a first female housing (18G) and a second female housing (18D) are respectively hollowed out, the device comprising: - first and second male elements that can move relative to the frame between a connection position, in which the first and second male elements are respectively received in a complementary manner in the first and second female housings when the device is attached between the left-hand and righthand uprights of the pushchair, and a disconnection position, in which the first and second male elements are outside the first and second housings; and - a mechanism for activating the first and second male elements, this mechanism being suitable for: - jointly moving, through the action of only one hand of a user, the first and second male elements from their connection position to their disconnection position; and - automatically returning, in the absence of any action, the first and second male elements from their disconnection position to their connection position.



21: 2019/01460. 22: 2019/03/08. 43: 2021/07/06 51: H01H 71: Eaton Intelligent Power Limited 72: ASKAN, Kenan 33: DE 31: 10 2016 117 005.4 32: 2016-09-09 **54: CIRCUIT BREAKER** 00: - In a circuit breaker (1) having an external conductor section (2) and a neutral conductor section (5), wherein a mechanical bypass switch (8) is arranged in the external conductor section (2), wherein a semiconductor circuit arrangement (11) of the circuit breaker (1), which semiconductor circuit arrangement is in the form of a four-quadrant switch, is connected in parallel with the bypass switch (8), wherein a current measuring arrangement (12) is arranged in the external conductor section (2) and is connected to an electronic control unit (13) of the circuit breaker (1), wherein the electronic control unit (13) is designed to operate the bypass switch (8) and the semiconductor circuit arrangement (11) in a prespecifiable manner, and wherein a voltagedependent resistor (19), in particular a varistor, is arranged in parallel with the bypass switch (8), it is proposed that the semiconductor circuit arrangement (11) has, preferably only, two discrete semiconductor components.



21: 2019/01467. 22: 2019/03/08. 43: 2021/07/06 51: B01D 71: DONALDSON COMPANY, INC. 72: HAUSER, Bradly, G., SONTAG, Stephen, K., MORAVEC, Davis, B., RAJGARHIA, Stuti, S., DALLAS, Andrew, J., KAPOOR, Vijay, K., RAHMATHULLAH, Aflal, CHRIST, Charles, S., BLOCK, Joseph, M. 33: US 31: 62/375,768 32: 2016-08-16 33: US 31: 62/375,772 32: 2016-08-16

54: HYDROCARBON FLUID-WATER SEPARATION

00: -

A substrate for use in a filter media including, for example, in a hydrocarbon fluid-water separation filter; methods of identifying the substrate; methods of making the substrate; methods of using the substrate; and methods of improving the roll off angle of the substrate. In some embodiments, the substrate includes a hydrophilic group-containing polymer or a hydrophilic group-containing polymer coating.



21: 2019/01645. 22: 2019/03/15. 43: 2021/08/03 51: C08K; C08L

71: BOREALIS AG

72: Susanne KAHLEN, Daniela MILEVA, Georg GRESTENBERGER, Michael TRANNINGER, Michael JERABEK, Dieter NICOLUSSI, Anna HARTL

33: EP 31: 16201645.5 32: 2016-12-01

54: FOAMED POLYPROPYLENE COMPOSITION 00: -

The present invention is directed to a polypropylene composition (C) comprising a heterophasic propylene copolymer and an inorganic filler, the use of said polypropylene composition (C) for the production of a foamed article and a foamed article obtained from said polypropylene composition (C).

21: 2019/01835. 22: 2019/03/25. 43: 2021/07/06 51: A61K; C07K; C12N; G01N; A61P 71: I-MAB

72: WANG, ZHENGYI, FANG, LEI, GUO, BINGSHI, ZANG, JINGWU

33: CN 31: 201610831525.9 32: 2016-09-19 33: CN 31: 201610832677.0 32: 2016-09-19 54: ANTI-GM-CSF ANTIBODIES AND USES THEREOF

00: -

Provided are anti-GM-CSF antibodies or fragments thereof including humanized antibodies and fragments. Also provided are uses of the antibodies and fragments for therapeutic, diagnostic and prognostic purposes. Therapeutic uses of the antibodies and fragments, for example include the treatment of inflammatory and autoimmune diseases and disorders.

21: 2019/01870. 22: 2019/03/26. 43: 2021/07/06 51: D04H

71: ESSITY HYGIENE AND HEALTH AKTIEBOLAG 72: AHONIEMI, Hannu, STRANDQVIST, Mikael, WIJBENGA, Gaatze, VENEMA, Arie 54: PROCESS FOR PRODUCING NONWOVEN 00: -

A process for producing nonwoven materials is disclosed. The process of comprises the following steps: a) providing a three-phase (gas-liquid-solid) suspension containing: - the natural and/or manmade fibres; - a surfactant; - 20-48 vol.% of air, b) providing a first moving carrier sieve, c) applying the three-phase suspension onto the first moving carrier sieve to produce a fibrous web, d) removing aqueous residue of the three-phase suspension through the first carrier sieve, e) recycling the aqueous residue to step a), f) pre-integrating the fibrous web by flushing the web with 0.0005-0.05m³ of water per m³ of applied three-phase suspension, at a pressure of 5-50 bar, and collecting flushed water, g) transferring the pre-integrated fibrous web from said first moving carrier sieve to a second moving carrier sieve, said second moving carrier sieve having a porosity which is smaller than the porosity of said first moving carrier sieve, h) hydroentangling the fibrous web on said second moving carrier.



- 21: 2019/01941. 22: 2019/03/28. 43: 2021/07/06 51: B07C
- 71: De Beers UK Limited
- 72: SMITH, James Gordon Charters
- 33: GB 31: 1616683.7 32: 2016-09-30

54: APPARATUS AND METHOD FOR SORTING GEMSTONES

00: -

An apparatus for sorting gemstones from a batch of gemstones comprises one or more measurement locations, a conveyor comprising a plurality of discrete compartments for containing the gemstones, a delivery device configured to deliver individual gemstones from the batch of gemstones to individual compartments of the conveyor and a controller configured to synchronise a speed of the conveyor with an operation of the one or more measurement locations such that the measurements of the gemstones in their associated compartments. A method of sorting gemstones from a batch of gemstones is also disclosed.



21: 2019/02027. 22: 01/04/2019. 43: 2021/07/06 51: H04L

71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)

72: GRANT, STEPHEN, FRENNE, MATTIAS 33: US 31: 62/431,743 32: 2016-12-08 54: CONTROLLABLE CSI-RS DENSITY 00: -

Methods and apparatus for configuring, in a network node (110) of a wireless communication network, a reference signal resource used to perform channelstate information, CSI, measurements with one or more wireless devices. In an example method, a reference signal resource is aggregated in one or more of a frequency and a time domain, and a density characteristic of the aggregated reference signal resource that is to be transmitted to the one or more wireless devices (105) is adjusted.



21: 2019/02064. 22: 02/04/2019. 43: 2021/07/06 51: B07B; F16B 71: METSO SWEDEN AB 72: PERSSON, MATHIAS, LUNDBERG, PETER 33: EP 31: 16189247.6 32: 2016-09-16

54: HAMMERLESS SOLUTION 00: -

A screen (3), which has a screen panel support (2) and screening modules (1) arranged in the screen panel support (2). The screening modules (1) are fastened to the screen panel support (1) by means of at least one device. The device comprises a first element (4) attachable to the screen panel support (2) and adapted to receive a opening (8) of the screening module (1) or a opening (8) created by adjacent screening modules (1), the first element (4) having an outer threading, and a second element (5) having an inner threading for engagement with the outer threading of the first element (4), such that the screening module (5) is attached to the screen panel support (2) upon interconnection between the first element (4) and the second element (5). The screen (3) wherein an outer periphery of the second element (5) comprises at least one groove (8) for engagement with a handling tool (10). A method for fastening a screening module (1) to a screen panel support (2).



21: 2019/02065. 22: 02/04/2019. 43: 2021/07/06 51: B07B; F16B

71: METSO SWEDEN AB

72: PERSSON, MATHIAS, LUNDBERG, PETER 33: EP 31: 17172104.6 32: 2017-05-20 33: EP 31: 16189247.6 32: 2016-09-16 54: A LINING ARRANGEMENT, AND A METHOD FOR FASTENING LINING ELEMENTS TO A SUPPORT STRUCTURE 00: -

The disclosure relates to a lining arrangement (3) for wear protection comprising: at least one lining element (1, 1') arranged to be fastened to a support structure (2); and at least one device, the device comprising: a first element (4; 4') adapted to be received in a through hole (8) of said at least one lining element (1, 1') or a through hole (8) created by adjacent lining elements (1, 1'), the first element (4; 4') having an axially arranged opening (41); a second element (5, 5') for engagement with the first element (4, 4'), such that the at least one lining element (1, 1') is attached to the support structure (2) upon interconnection between the first element (4, 4') and the second element (5, 5'), and wherein an outer periphery of the second element (5, 5') comprises a plurality of grooves (9) for engagement with a handling tool (10). The disclosure further relates to a method for fastening lining elements (1, 1') to a support structure (2).



21: 2019/02108. 22: 04/04/2019. 43: 2021/07/06 51: A61K; A61P

71: AUSPEX PHARMACEUTICALS, INC. 72: STAMLER, DAVID, HUANG, MICHAEL FANGCHING

33: US 31: 62/175,112 32: 2015-06-12 33: US 31: 62/129,616 32: 2015-03-06 33: US 31: 62/180,012 32: 2015-06-15 54: METHODS FOR THE TREATMENT OF ABNORMAL INVOLUNTARY MOVEMENT DISORDERS 00: -

Disclosed herein are new dosage regimens for deuterium-substituted benzoquinoline compounds, and methods for the treatment of abnormal muscular activity, movement disorders, and related conditions.

- 21: 2019/02173. 22: 2019/04/08. 43: 2021/06/23
- 51: G08B

71: KRUGER, Gavin William

72: KRUGER, Gavin William

54: A WARNING SYSTEM

A warning system comprising a processor which controls the function of the warning system, a frequency transmitter module and a communications module for the parts of the warning system to remain in communication with each other and to allow for the broadcasting of an audible alert.

71: MOKGOSI, Tsholofelo Grace Loveness 72: MOKGOSI, Tsholofelo Grace Loveness 33: ZA 31: 2018/01701 32: 2018-03-13 54: DEFROSTING OF REFRIGERATION APPLIANCES

^{21: 2019/02285. 22: 2019/04/11. 43: 2021/07/06} 51: F25D

00: -

The invention provides a defrosting device for defrosting a refrigeration appliance. The device comprises a container configured to contain a heated liquid medium such that, in use, the heated liquid medium heats air surrounding the container and thus provides heated air. The device further comprises an electricity driven fan located proximate to the container to generate flow of the heated air in use.

21: 2019/02306. 22: 11/04/2019. 43: 2021/07/06 51: C01B

71: BASF CORPORATION

72: KUNKES, EDUARD, MOINI, AHMAD, ORTEGA, MARITZA I

33: US 31: 62/403,331 32: 2016-10-03

54: ALUMINUM GRADIENT ALUMINOSILICATE ZEOLITE COMPOSITIONS 00: -

Disclosed herein are compositions comprising an aluminosilicate zeolite crystals with an 8 ring pore size having a depth dependent silica to alumina molar ratio and processes of making aluminosilicate zeolite crystals with an 8 ring pore size having a depth dependent silica to alumina molar ratio.



21: 2019/02338. 22: 2019/04/12. 43: 2021/07/06 51: C07C

71: LINDE AKTIENGESELLSCHAFT

72: ZELLHUBER, Mathieu, WINKLER, Florian, SCHUBERT, Martin, MEISWINKEL, Andreas 33: EP 31: 16206435.6 32: 2016-12-22 54: METHOD AND SYSTEM FOR PRODUCING ETHYLENE AND ACETIC ACID 00: -

The invention relates to a method for producing ethylene and acetic acid, wherein a reaction mixture flow containing ethane and oxygen is formed and a portion of the ethane and the oxygen is reacted in the reaction mixture flow via oxidative dehydrogenation to form the ethylene and the acetic acid, with the production of a process gas, wherein the process gas contains the unreacted portion of the ethane and the oxygen, the ethylene and the acetic acid, as well as water. According to the invention, the method involves adjusting a partial pressure of the water in the process gas to a value in a range between 0.7 and 5 bar (abs.) according to a predefined product ratio of the acetic acid to the ethylene. The invention also relates to a corresponding system (100).



21: 2019/02342. 22: 12/04/2019. 43: 2021/07/06 51: G01N; C07K; C12N 71: THE UNIVERSITY OF SHEFFIELD 72: RIVOLTA, CARLOS MARCELO NICOLAS, BODDY, SARAH LOUISE 33: GB 31: 1615714.1 32: 2016-09-15 54: HUMAN OTIC PROGENITOR IDENTIFICATION AND ISOLATION 00: -The present invention relates generally to the

identification and isolation of human otic progenitor cells. More specifically, the present invention relates to a method of using cell markers to identify and isolate human otic progenitor cells from a mixed population of cells, methods of enrichment and

production of human otic progenitor cells, and associated kits for use in identification and/or isolation of human otic progenitor cells, wherein the cell markers are selected from SSEA1 (CD15), disialoganglioside GD3, TRA-2-49 (liver/bone/kidney alkaline phosphatase), SSEA4, ganglioside GD2 and CD141.

21: 2019/02344. 22: 12/04/2019. 43: 2021/07/06 51: A61K

71: ASCLEPIX THERAPEUTICS, INC., THE JOHNS HOPKINS UNIVERSITY

72: PANDEY, NIRANJAN B, MIRANDO, ADAM, POPEL, ALEKSANDER S, GREEN, JORDAN J 33: US 31: 62/403,786 32: 2016-10-04 54: COMPOUNDS AND METHODS FOR ACTIVATING TIE2 SIGNALING 00: -

The present invention in various aspects and embodiments, involves methods for treating Tie2 related vascular permeability by administering one or more collagen IV-derived biomimetic peptides and involves compositions for treating Tie2-related vascular permeability comprising one or more collagen IV-derived biomimetic peptides. Such peptides can promote the Tie2 agonist activities of Angiopoietin 2 (Ang2), thereby stabilizing vasculature and/or lymphatic vessels.



21: 2019/02385. 22: 15/04/2019. 43: 2021/07/06 51: A61K; C08B; C12P 71: NAVIDEA BIOPHARMACEUTICALS, INC. 72: COPE, FREDERICK O

33: US 31: 62/405,780 32: 2016-10-07

54: COMPOUNDS AND METHODS FOR DIAGNOSIS AND TREATMENT OF VIRAL INFECTIONS

00: -

Compositions and methods of using these compositions that can include a targeting moiety and a therapeutic agent are described herein. These compositions can be used for di-agnosing and/or treating flaviviridae-family viruses including Zika virus, dengue virus, and yellow fever.



21: 2019/02469. 22: 17/04/2019. 43: 2021/07/06 51: A61D; G01N 71: BIASSEX PTY LTD 72: PFISTERSHAMMER, JOSEF 33: AU 31: 2016903813 32: 2016-09-21

54: BIASING SEX SELECTION

A method for biasing sex selection, the method comprising the introduction into a uterus of a subject a volume of micro-particle conjugates (10), wherein the micro- particle conjugates are proportioned so as to approximate the size and shape of spermatozoa and thereby be carried by peristaltic waves through the uterus and fallopian tubes to the infundibulum, at which point any spermatozoa present or arriving thereafter undergo capacitation and expose antigens that may be bound by anti-male antibodies (14) provided in the micro-particle conjugates (10), the binding of the exposed antigens on the spermatozoa by the anti-male antibodies resulting in their inability to penetrate the Zona Pellucida of an egg and effect fertilisation.



21: 2019/02476. 22: 17/04/2019. 43: 2021/07/06 51: H04L

71: ADVANCED NEW TECHNOLOGIES CO., LTD. 72: ZHANG, DEPIN

33: CN 31: 201610875370.9 32: 2016-09-30 54: METHOD AND DEVICE FOR DETERMINING AREAS OF INTEREST BASED ON GEOLOCATION DATA

00: -

The present application provides a method and a device for determining an area of interest based on geolocation data. The method comprises: performing gridding on a map area to be processed; recording a grid value of each grid within a preset duration, the grid value being the number of users that report geolocation data within a corresponding grid; selecting a grid value greater than a preset threshold from the recorded grid values; determining location points in the grid corresponding to the selected grid value; calculating, according to the location points and based on a preset algorithm, to obtain a curve comprising all of the location points; and determining an area in the curve as an area of interest. By using embodiments of the present application, areas of interest are automatically determined by using geolocation data accurately reported by users, thus avoiding low efficiency and high costs associated with having to manually demarcate areas of interest.



21: 2019/02592. 22: 2019/04/24. 43: 2021/08/03 51: A47C; G01M 71: MADAD PTY LTD 72: JUST, Morrison 33: AU 31: 2016904239 32: 2016-10-19 54: METHOD AND APPARATUS FOR TESTING ROLL TOGETHER 00: -

A method and apparatus for testing roll together of a mattress using two weights, preferably weighted cylinders, and moving one of the weights towards the other while measuring change in distance between the weights and changes in angle of the stationary weight.



- 21: 2019/02628. 22: 25/04/2019. 43: 2021/07/06
- 51: C07D; A61K; A61P

71: SHENZHEN CHIPSCREEN BIOSCIENCES CO., LTD.

- 72: LU, XIANPING, LI, ZHIBIN
- 33: CN 31: 201610856945.2 32: 2016-09-27

54: NON-SOLVATED CRYSTAL, PREPARATION METHOD AND APPLICATION THEREOF 00: -

The invention relates to non-solvated crystals A, B and C of N-(2-aminophenyl)-6-(7-methoxyquinoline-4-oxy)-1-naphthamide and preparation methods thereof. The invention also relates to pharmaceutical compositions containing the crystals, and a use of the crystals in preparation of a medicament for the treatment of a disease associated with abnormal protein kinase activity or abnormal histone deacetylase activity.



21: 2019/02760. 22: 02/05/2019. 43: 2021/07/06 51: C07D 71: GLACEUM, INC. 72: YOO, SANG KU, CHUNG, JIN WOOK, JO, IN GEUN, KIM, JI YOUNG, IM, JEONG HO, KANG, KU SUK, KIM, JIN YOUNG 33: KR 31: 10-2016-0127805 32: 2016-10-04 54: METHOD FOR SYNTHESIZING 3-PHENYL-2,3,4,8,9,10-HEXAHYDROPYRANO[2,3-F]CHROMENE DERIVATIVE AND OPTICAL ISOMER OF THEREOF 00: -

The present invention relates to a method for synthesizing a 3-phenyl-2,3,4,8,9,10hexahydropyrano[2,3-f]chromene derivative and an optical isomer thereof, and an intermediate Compound which may be used for the synthesis method, and when the method and the intermediate Compound are used, the 3-phenyl-2,3,4,8,9,10hexahydropyrano[2,3-f]chromene derivative and the optical isomer thereof may be effectively synthesized. 21: 2019/02761. 22: 02/05/2019. 43: 2021/07/06 51: F42B 71: BAE SYSTEMS PLC 72: WILTON, ANNE MARIE

33: GB 31: 1618624.9 32: 2016-11-04 54: PROPELLANT CHARGE CONTAINER 00: -

The invention relates to a charge container device, said charge container device having a volume suitable to substantially fill a barrel chamber, said charge container device is formed from a substantially rigid and combustible material, wherein said charge container device comprises at least one wall to define a cavity for the retention of at least one cartridge case, said at least one cartridge case comprising an energetic material, wherein said at least one cartridge case is arranged in a stacked formation within said charge container, the charge container device further comprising a base portion and a top portion, wherein the top portion comprises an aperture to allow for expulsion of energy and the base portion comprising an ignition means.

Fig. 2b



21: 2019/02764. 22: 02/05/2019. 43: 2021/07/06 51: F42B 71: BAE SYSTEMS PLC 72: WILTON, ANNE MARIE 33: GB 31: 1618622.3 32: 2016-11-04 54: MODULAR CHARGE CONTAINER 00: -

The invention relates to a modular charge container device formed of one or more combustible modular cartridges, wherein said combustible modular cartridge comprises two ends, a first end comprising a base portion and a second end comprising a top portion, wherein the combustible modular cartridge is formed using a substantially rigid and combustible material, said combustible modular cartridge comprises at least one wall to define a cavity, wherein the cavity further comprises at least one combustible canister, wherein said combustible canister comprises an energetic material.



21: 2019/02906. 22: 09/05/2019. 43: 2021/07/06 51: H04W; H04L

71: SHARP KABUSHIKI KAISHA, FG INNOVATION COMPANY LIMITED

72: YOSHIMURA, TOMOKI, SUZUKI, SHOICHI, OUCHI, WATARU, LIU, LIQING, IMAMURA, KIMIHIKO

33: JP 31: 2016-214931 32: 2016-11-02 54: TERMINAL APPARATUS, BASE STATION APPARATUS, AND COMMUNICATION METHOD 00: -

A terminal apparatus includes a receiver configured to receive a DCI format including an uplink grant, and a transmitter configured to transmit a PUSCH or an sPUSCH based on the uplink grant. A TTI of the PUSCH is one sub-frame. A TTI of the sPUSCH is shorter in value than one slot. In a case that a transmission of a channel quality indicator is triggered in response to a transmission of the PUSCH, the uplink control information is transmitted in the PUSCH. In a case that a transmission of a channel quality indicator is triggered in response to a transmission of the sPUSCH, a transmission of the uplink control information is dropped.



21: 2019/02923. 22: 2019/05/10. 43: 2021/07/06 51: B02C

71: OSBORN ENGINEERED PRODUCTS SA (PTY) LTD

72: VILJOEN, HERCULES JOHANNES PETRUS 33: ZA 31: 2018/03388 32: 2018-05-22 54: CONE CRUSHER ARRANGEMENT AND DYNAMIC CONE ASSEMBLY FOR USE THEREIN 00: -

This invention relates to a cone crusher arrangement, and more particularly but not exclusively to a dynamic cone assembly of a cone crusher arrangement. The dynamic cone assembly includes a spindle, a conical support structure locatable on an operatively upper end of the spindle and a mantel locatable on an outer face of the conical support structure. The dynamic cone assembly is characterized in that a lug formation extends from an inner face of the mantel towards the conical support structure, with the lug formation in use located at least partially inside a cavity formed in an inner surface of the mantel and/or in a cavity formed in the outer surface of the conical support structure.



21: 2019/03071. 22: 16/05/2019. 43: 2021/07/06 51: A61K

71: CORVUS PHARMACEUTICALS, INC. 72: HUDSON, RYAN, BEAUSOLEIL, ANNE-MARIE 33: US 31: 62/417,083 32: 2016-11-03 54: COMPOUNDS AND METHODS FOR MODULATING INTERLEUKIN-2-INDUCIBLE T-

CELL KINASE

00: -

Provided herein, inter alia, are methods and compounds for modulating Interleukin-2-inducible T-cell kinase.

21: 2019/03072. 22: 16/05/2019. 43: 2021/07/06 51: A61F; A61B; A61M 71: MIRAKI INNOVATION THINK TANK LLC 72: VELIS, CHRISTOPHER, VELIS, COLE C, MILLER, KAREN 33: US 31: 62/416,484 32: 2016-11-02 54: DEVICES AND METHODS FOR SLURRY

GENERATION

00: -

The present invention involves the use of a small profile device for preparation and/or delivery of cold slurry into the human body. The cold slurry can be generated within the device itself or within a separate small chamber, both of which produce a cold slurry using a cooling source and an injectable fluid. The delivery device provides continued agitation to the fluid/slurry through rotation and/or vibration of blades within the device. The fluid/cold slurry is cooled/kept cool through the use of an external cooling device, such as a cooling sleeve, that at least partially surrounds the delivery device. The cooling sleeve can cool or maintain the temperature of the cold slurry through a number of mechanisms. The cold slurry can be delivered using a device in accordance with the present invention to any tissue inside the body, including subcutaneous fat, visceral fat, and brown fat.



21: 2019/03106. 22: 17/05/2019. 43: 2021/07/06 51: H04B

71: VIASAT, INC.

72: BUER, KENNETH, PATEROS, CHARLES, RALSTON, WILLIAM

33: US 31: 62/411,377 32: 2016-10-21 54: VC GROUND-BASED BEAMFORMED COMMUNICATIONS USING MUTUALLY SYNCHRONIZED SPATIALLY MULTIPLEXED FEEDER LINKS

00: -

Embodiments provide ground-based beamforming with mutually synchronized spatially multiplexed gateways in a wireless communications system. Some embodiments operate in context of a satellite having a focused-beam feeder antenna that communicates with multiple, geographically distributed gateway terminals (e.g., single gateway per beam), and a user antenna that provides communications with user terminals via formed user beams. The gateway terminals can communicate feeder signals that are beam-weighted and mutually phase-synchronized (e.g., according to satellite and/or loopback beacons). For example, the synchronization can enable forward uplink signals to be phase-synchronously received by the satellite, and the beam weighting can enable the forward downlink signals to spatially combine to form forward user beams. Embodiments can achieve extensive bandwidth reuse through mutually synchronized spatial multiplexing of the feeder-link communications.



21: 2019/03107. 22: 17/05/2019. 43: 2021/07/06 51: E21B; C22C; B22F

71: EPIROC DRILLING TOOLS AKTIEBOLAG 72: ROSTVALL, TOMAS, AHLÉN, NIKLAS

33: SE 31: 1630268-9 32: 2016-11-18

54: DRILL BIT INSERT FOR ROCK DRILLING 00: -

Drill bit insert with a sintered cemented carbide body including a hard phase of tungsten carbide (WC) and a binder phase wherein the cemented carbide comprises 5.0 - 7.0 wt % Co, 0.10 - 0.35 wt % Cr, and a Cr/Co weight ratio of 0.015 - 0.058. The cemented carbide body has a hardness of 1520 -1660 Hv30 and a toughness of K1c = 10.0 both measured in the bulk at the center of the longitudinal axis through the center of the insert, or = 5 mm from any surface of the insert. The insert further has a surface toughness K1c = 12.0 measured at 0.5 mm below the surface of the body in a transverse direction to the longitudinal axis the insert. The invention also relates to a drill bit comprising the insert and the use of such a drill bit for drilling. 21: 2019/03184. 22: 21/05/2019. 43: 2021/07/06 51: C07D; A61K

71: LANTHEUS MEDICAL IMAGING, INC. 72: RADEKE, HEIKE S, CESATI, RICHARD R, PUROHIT, AJAY, HARRIS, THOMAS D, ROBINSON, SIMON P, YU, MING, CASEBIER, DAVID S, HU, CAROL HUI, BROEKEMA, MATTHIAS, ONTHANK, DAVID C 33: US 31: 61/533,133 32: 2011-09-09 33: US 31: 61/656,492 32: 2012-06-06 33: US 31: 61/656,489 32: 2012-06-06 54: COMPOSITIONS, METHODS, AND SYSTEMS FOR THE SYNTHESIS AND USE OF IMAGING AGENTS 00: -

The present invention relates to systems, compositions, and methods for the synthesis and use of imaging agents, or precursors thereof. An imaging agent precursor may be converted to an imaging agent using the methods described herein. In some cases, the imaging agent is enriched in 18 F. In some cases, an imaging agent may be used to image an area of interest in a subject, including, but not limited to, the heart, cardiovascular system, cardiac vessels, brain, and other organs. In some embodiments, methods and compositions for assessing perfusion and innervation mismatch in a portion of a subject are provided.

Example 1



21: 2019/03194. 22: 2019/05/21. 43: 2021/06/23

51: D06M 71: QED LABS INC.

Page | 179

72: JOGIKALMATH, Gangadhar, RAMAPPA, Deepak Arabagatte 33: US 31: 62/424,856 32: 2016-11-21 33: US 31: 62/429,486 32: 2016-12-02 54: STAPLE FIBERS CONTAINING RELEASABLE SURFACE MODIFYING MOLECULES 00: -

Staple fibers and compositions formed from staple fibers are disclosed herein. The fibers are functionalized with molecules that render fabrics comprising the disclosed fibers hydrophobic, hydrophilic, and/or release molecules upon exposure to an external stimulus. Also presented are methods of synthesizing the same and a fabric comprising woven yarns including the staple fiber.



21: 2019/03237. 22: 22/05/2019. 43: 2021/07/06 51: B32B

71: SHAW INDUSTRIES GROUP, INC. 72: BURNS, JAMES, ODUM, TOM, VECSEY, JAY, BRIERE, JEAN, BASS, DEREK 33: US 31: 62/422,308 32: 2016-11-15 33: US 31: 62/553,271 32: 2017-09-01 54: LAYERED COMPOSITE ARTICLES AND METHODS OF MAKING SAME 00: -

Disclosed are layered composite articles comprising: a) a rigid backing portion comprising a rigid core having a first surface and an opposed second surface, wherein the rigid core comprises at least one densified fiber bait and wherein the at least one densified fiber batt is comprised of a first plurality of oriented fibers having a first melting point and a second plurality of oriented fibers having a second melting point different from the first melting point; and b) a decorative portion having a first surface and an opposed second surface, wherein the second surface of the decorative portion is affixed to the first surface of the rigid core. Also disclosed herein are methods of making the same.



100

21: 2019/03249. 22: 2019/05/23. 43: 2021/08/19 51: E21D; G01B; G01D 71: PIENAAR, Frans Roelof Petrus, HOWELL, Mark, WOOD, Richard Roy, NICHOLL, Brian Robert 72: PIENAAR, Frans Roelof Petrus, HOWELL, Mark, WOOD, Richard Roy, NICHOLL, Brian Robert 33: ZA 31: 2018/01371 32: 2018-02-23 54: SUPPORT UNIT WARNING DEVICE 00: -

An early warning device 20 for a support, such as a mine support, the ends of which are axially reciprocable relatively to one another to increase or decrease the length of the support. The early warning device includes a transducer comprising a sensor subsystem (consisting of a wire draw sensor in which a limited stretch line 24 is wound onto a spring-loaded capstan 26); an actuator subsystem (an actuator wheel within a housing 32, that has permanent magnet actuators mounted about the circumference of the actuator wheel and a Hall effect sensor to sense the proximity of each of the magnets, the actuator wheel being indirectly mounted on the capstan 26 across a torque transfer system made up of a system of gears 46, 48); a programmable logic subsystem constituted by one or more integrated circuits and associated circuitry); and an alarm subsystem (constituted by an externally visible light).


21: 2019/03267, 22: 2019/05/23, 43: 2021/07/06 51: H04L

- 71: Alibaba Group Holding Limited
- 72: LI, Ning

33: CN 31: 201710182459.1 32: 2017-03-24 54: METHOD AND DEVICE FOR BROADCASTING MESSAGES

00: -

Disclosed are a method and device for broadcasting messages. A message processing device is allocated to each consensus node, and work of broadcasting messages among various consensus nodes is performed by various message processing devices. For a certain consensus node, the message processing device corresponding thereto can create a thread with respect to the message processing devices corresponding to the other consensus nodes, and perform the task of broadcasting messages until the message processing devices corresponding to the other consensus nodes receive the broadcast message. In this way, the thread performing the task of broadcasting messages only

consumes a computing resource of the message processing devices, and does not consume a resource of the consensus nodes, and therefore does not burden the consensus nodes, so that the consensus nodes can perform consensus verification on a service more efficiently.



- S105 ermined that the message processing devices corre inding to the other consensus nodes receive the first
- adcast message, withdraw the second thread ad the first broadcast message to the other co
- S106 AA BB
- Versage processing device corresponding to the consensus node Vessage processing devices corresponding to the other consensus node Other consensus nodes

21: 2019/03310. 22: 24/05/2019. 43: 2021/07/06 51: C07D; A61P; A61K

71: SPERO THERAPEUTICS, INC. 72: JAIN, AKASH, HECKER, EVAN, EDWARDS, RICHARD, BONNAUD, THIERRY 33: US 31: 62/455,109 32: 2017-02-06 54: TEBIPENEM PIVOXIL CRYSTALLINE FORMS, COMPOSITIONS INCLUDING THE SAME, METHODS OF MANUFACTURE, AND METHODS OF USE

00: -

The disclosure is directed to new crystalline tebipenem pivoxil salt forms, including a crystalline tebipenem pivoxil ethane sulfonate salt form (Form A), a crystalline tebipenem pivoxil ketoglutarate salt form (Form A), tebipenem pivoxil maleate salt forms (Form A and Form B), a tebipenem pivoxil malate salt form (Form A), a tebipenem pivoxil methane sulfonate salt form (Form B), a tebipenem pivoxil hydrobromide salt form (Form B), and a tebipenem pivoxil edisylate salt form (Form A). The disclosure also includes a composition, comprising a crystalline tebipenem pivoxil salt and a pharmaceutically acceptable carrier and further includes a method for treating an antibiotic resistant bacterial infection,

comprising administering to a patient in need of such treatment a therapeutically effective amount of a crystalline tebipenem pivoxil salt.

21: 2019/03479. 22: 30/05/2019. 43: 2021/07/06 51: C07D; A61P; A61K 71: BIOTHERYX, INC. 72: CHAN, KYLE W. H, ERDMAN, PAUL E, FUNG, LEAH, MERCURIO, FRANK, SULLIVAN, ROBERT, TORRES, EDUARDO 33: US 31: 62/538,203 32: 2017-07-28 33: US 31: 62/437,400 32: 2016-12-21 33: US 31: 62/485,563 32: 2017-04-14 54: THIENOPYRROLE DERIVATIVES FOR USE IN TARGETING PROTEINS, COMPOSITIONS, METHODS, AND USES THEREOF 00: -

The present invention provides compounds that modulate protein function, to restore protein homeostasis, including cytokine, CKla, GSPTI, aiolos, and/or ikaros activity, and cell-cell adhesion. The invention provides methods of modulating protein-mediated diseases, such as cytokinemediated diseases, disorders, conditions, or responses. Compositions, including in combination with other cytokine and inflammatory mediators, are provided. Methods of treatment, amelioration, or prevention of diseases, disorders, or conditions associated with a protein, such as diseases, disorders, and conditions associated with cytokines, including inflammation, fibromyalgia, rheumatoid arthritis, osteoarthritis, ankylosing spondylitis, psoriasis, psoriatic arthritis, inflammatory bowel diseases, Crohn's disease, ulcerative colitis, uveitis, inflammatory lung diseases, chronic obstructive pulmonary disease, Alzheimer's disease, and cancer, are provided.



 $\mathbf{Q}_{1} = \left(\begin{array}{c} \mathbf{Q}_{1} \\ \mathbf{Q}_{2} \\ \mathbf{Q}_{3} \\ \mathbf{Q}_{3} \\ \mathbf{X}_{1} \\ \mathbf{X}_{1} \\ \mathbf{X}_{1} \\ \mathbf{X}_{1} \end{array} \right) \left(\mathbf{Q}_{1} \\ \mathbf{Q}_{2} \\ \mathbf{X}_{1} \\ \mathbf{X}_{$

21: 2019/03571. 22: 2019/06/04. 43: 2021/06/22 51: A61K 71: CELLIX BIO PRIVATE LIMITED 72: KANDULA, Mahesh 33: IN 31: 201641040639 32: 2016-11-28 33: IN 31: 201741012687 32: 2017-04-07 54: COMPOSITIONS AND METHODS FOR THE TREATMENT OF FUNGAL INFECTIONS 00: -

The invention relates to the compounds or its pharmaceutical acceptable polymorphs, solvates, enantiomers, stereoisomers and hydrates thereof. The pharmaceutical compositions comprising an effective amount of compounds of formula I, formula II, formula III, formula IV, formula V, formula VI, formula VII, formula IV, formula X, or Formula X and, the methods for the treatment of fungal infections may be formulated for oral, buccal, rectal, topical, transdermal, transmucosal, lozenge, spray, intravenous, oral solution, buccal mucosal layer tablet, parenteral administration, syrup, or injection. Such compositions may be used to treatment of fungal infections.



21: 2019/03696. 22: 2019/06/10. 43: 2021/08/03 51: A61K; C07C 71: TAIRX, INC.

72: Du-Shieng CHIEN, Yi-Wen CHU 33: US 31: 62/447,892 32: 2017-01-18 33: US 31: 62/567,889 32: 2017-10-04 54: COMPOSITIONS FOR USE IN TREATING INFLAMMATORY BOWEL DISEASES AND INTESTINAL COLITIS 00: -

Compositions for use in treating and/or alleviating a symptom of inflammatory bowel disease, colitis, and/or enterocolitis in a subject in need thereof are disclosed. The composition comprises a therapeutically effective amount of an anthraquinone derivative or a pharmaceutically acceptable salt thereof; and a pharmaceutically acceptable vehicle. In one embodiment, the composition comprises diacerein. Also disclosed is a first composition comprising an anthraquinone derivative selected from the group consisting of diacerein, aloe-emodin, emodin, and rhein, and a first pharmaceutically acceptable vehicle; and a second composition comprising mesalazine, and a second pharmaceutically acceptable vehicle, in combination for use in treating and/or alleviating a symptom of inflammatory bowel disease, colitis, and/or enterocolitis.



21: 2019/03764. 22: 2019/06/11. 43: 2021/08/24 51: A01M; A01N; A01P 71: VICTORIA LINK LIMITED 72: JACKSON, Michael David, LINKLATER, Wayne Leslie, KEYZERS, Robert Alexander 33: AU 31: 2016905268 32: 2016-12-20 33: AU 31: 2017900596 32: 2017-02-23 54: SYNTHETIC LURES 00: -

The present application relates to semiochemicalbased lures for mammals, particularly mammalian pest species that are useful for monitoring, capturing and/or controlling mammals and to methods of using semiochemical-based lures for monitoring, capturing and/or controlling mammals, particularly mammalian pest species. The present application also relates to the use of semiochemical-based lures for monitoring, capturing and/or controlling mammals, particularly mammalian pest species. In some embodiments, semiochemical-based lures are useful for reducing the number of mammalian pest species in one or more designated target environments.

21: 2019/03857. 22: 2019/06/14. 43: 2021/06/23 51: B65D

- 71: VAN DER MERWE, Jan Jonathan
- 72: VAN DER MERWE, Jan Jonathan
- 33: ZA 31: 2018/04146 32: 2018-06-21

54: A STORAGE SOLUTION 00: -

A storage solution comprising a base attachable to two side panels, the side panels attachable to drawer slides which are shaped and dimensioned to receive frames defining hooks complementarily shaped to be received by at least one container, the container, when engaged with the hooks, being moveable when the frame is moved along the drawer slide from an open position, to a closed position when the container is located between the side panels.



- 21: 2019/03967. 22: 2019/06/19. 43: 2021/08/03 51: A61K; C07K; A61P 71: MACROGENICS, INC.
- 71: MACROGENICS, INC. 72: Deryk, T. LOO, Juniper, A. SCRIBNER, Bhaswati BARAT, Gundo DIEDRICH, Leslie, S. JOHNSON, Ezio BONVINI 33: US 31: 62/438,516 32: 2016-12-23 54: ADAM9-BINDING MOLECULES, AND METHODS OF USE THEREOF

00: -

The present invention is directed to molecules, such as monospecific antibodies and bispecific, trispecific or multispecific binding molecules, including diabodies, BiTEs, and antibodies that are capable of specifically binding to "Disintegrin and Metalloproteinase Domain-containing Protein 9" ("ADAM9"). The invention particularly concerns such binding molecules that are capable of exhibiting high affinity binding to human and non-human ADAM9. The invention further particularly relates to such molecules that are thereby cross-reactive with human ADAM9 and the ADAM9 of a non-human primate (e.g., a cynomolgus monkey). The invention additionally pertains to all such ADAM9-binding molecules that comprise a Light Chain Variable (VL) Domain and/or a Heavy Chain Variable (VH) Domain that has been humanized and/or deimmunized so as

to exhibit reduced immunogenicity upon administration of such ADAM9-binding molecule to a recipient subject. The invention is also directed to pharmaceutical compositions that contain any of such ADAM9-binding molecules, and to methods involving the use of any of such ADAM9-binding molecules in the treatment of cancer and other diseases and conditions.



- 21: 2019/04233. 22: 27/06/2019. 43: 2021/07/01 51: G06Q
- 71: ADVANCED NEW TECHNOLOGIES CO., LTD. 72: NI, FEI

33: CN 31: 201710002177.9 32: 2017-01-03 54: CURRENCY TYPE SWITCHING METHOD AND DEVICE

00: -A currency type switching method and device. The currency type switching method comprises: determining a user-selected currency type and paying channel for a payment (110); determining whether the paying channel supports the currency type (120); and if the paying channel does not support the currency type, switching to a currency type supported by the paying channel (130). In a payment process, if a paying channel does not support a user-selected currency type, the currency type is automatically switched to a currency type supported by the paying channel without requiring a user to quit a checkout process, reselect a currency type and reenter the checkout process, enhancing user experience and payment efficiency.



21: 2019/04467. 22: 2019/07/08. 43: 2021/08/03 51: G06F; G06Q

71: PINNACLE RISK SOLUTIONS PTY LTD 72: Stephen MARK WOOD 33: AU 31: 2016905377 32: 2016-12-23

54: FATALITY LEARNING SYSTEM AND METHOD

00: -

A fatality learning system and method, the system comprising; a centrally located critical risk database comprising questions classified in a taxonomic structure; a lessons learned database comprising information taken from fatality learnings and incident reports; and checklists comprising questions selected from the critical risk database, wherein a plurality of checklists are directed to an activity, the different checklists being configured to suit different roles required to perform the activity, wherein the critical risk database is arranged to be updated based on information added to the lessons learned database, and wherein the checklists are updated with the updated critical risk database content.



21: 2019/05456. 22: 2019/08/19. 43: 2021/07/06

51: A61K; C07D; A61P

71: Gilead Sciences, Inc.

72: BACON, Elizabeth M., BRIZGYS, Gediminas, CHIN, Elbert, CHOU, Chienhung, COTTELL, Jeromy J., LINK, John O., TAYLOR, James G., TSE, Winston C., WRIGHT, Nathan E., YANG, Zheng-Yu, ZHANG, Jennifer R., ZIPFEL, Sheila M. 33: US 31: 62/460,013 32: 2017-02-16 **54: PYRROLO[1,2-B]PYRIDAZINE DERIVATIVES** 00: -

Provided is a compound of Formula (I) wherein the variable groups are defined herein.



21: 2019/05507. 22: 2019/08/21. 43: 2021/08/24 51: A23L 71: FUTURE LIFE HEALTH PRODUCTS (PTY) LTD

72: Paul SAAD

54: METHOD OF FORMULATING A NUTRITIONAL SUPPLEMENT POWDER

00: -

The current invention provides a method of formulating a nutritional supplement powder comprising complex carbohydrates and proteins that does not clump when mixed with a liquid, comprising a step of application of an anti-clumping composition comprising one or more lecithinated fats and glycerine to the nutritional supplement dry powder, and a nutritional supplement powder formulated with the anti-clumping composition.

21: 2019/05612. 22: 2019/08/26. 43: 2020/08/13 51: A61K; C07C; A61P 71: NOVUM SPERO LTD 72: HULAJ, Besim 54: NEW POLYIMINO KETOALDEHYDES 00: -

The compounds with the general formula (I) are disclosed where n1 is the number of carbon atoms connected to nitrogen atom by a double bond and can take on values between 25 and 41, and where n2 is the number of -CH2- groups and can take on values between 15 and 23, as well as their biologically acceptable salts and solvates.



21: 2019/05763. 22: 2019/08/30. 43: 2021/08/24 51: A61K; C07K 71: UNIVERSITÄT HEIDELBERG 72: UHL, Philipp, SAUTER, Max, MIER, Walter 33: EP 31: 17000536.7 32: 2017-03-30 54: LIPOSOMAL COMPOSITIONS AND SOLID ORAL DOSAGE FORMS COMPRISING THE SAME 00: - The present invention relates to solid oral dosage forms comprising liposomes, said liposomes comprising conjugates of cell penetrating peptides (CPPs)and a compound, selected from a lipid and a fatty acid, wherein said liposomes are comprised in an enteric-coated capsule or enteric-coated tablet. The present invention further relates to uses of said solid oral dosage forms for the oral delivery of therapeutic and diagnostic agents.



21: 2019/06025. 22: 2019/09/12. 43: 2021/08/16 51: A01C; C07K

71: Inner Mongolia Academy of Agricultural & Animal Husbandry Sciences

72: Peiling SONG (Chinese Citizen), Ziqin LI (Chinese Citizen), Mengjiao YAN (Chinese Citizen), Lifen HAO (Chinese Citizen), Haiyan HUANGFU (Chinese Citizen), Jiuru HUANGFU (Chinese Citizen), Chen GUO (Chinese Citizen), Xiaojun WEI (Chinese Citizen), Jianiing GUO (Chinese Citizen), Xiaoqing JIA (Chinese Citizen), Yongqing YANG (Chinese Citizen), Zengyou DU (Chinese Citizen), Baohui ZHANG (Chinese Citizen), Yumei WU (Chinese Citizen), Haiming WU (Chinese Citizen), Lili ZHAO (Chinese Citizen), Chunrui YAN (Chinese Citizen), Xiuling SONG (Chinese Citizen), Yuhe ZHAO (Chinese Citizen), Huiqi LI (Chinese Citizen), Caiboa LIU (Chinese Citizen), Chunming OU (Chinese Citizen), Cunhu ZHAO (Chinese Citizen) **54: METHOD FOR DETECTING RAPE SEED** CARRYING LEPTOSPHAERIA SP. 00: -

The present invention provides a method for detecting rape seed carrying Leptosphaeria sp., and pertains to the technical field of microbial detection. The method includes the following steps of: 1) with spot-checked rape seeds as direct raw materials, extracting rape seed DNA to obtain crude DNA by means of a CTAB method; 2) with the crude DNA as

raw material, re-extracting DNA to obtain refined DNA by means of a kit assay; and 3) with the refined DNA as template, conducting Leptosphaeria-specific primer on PCR amplification to obtain an amplified product, where if the electrophoresis result of the amplified product shows a Leptosphaeria-specific band, then spot-checked rape seeds carrying Leptosphaeria sp. is determined, if the electrophoresis result of the amplified product shows no Leptosphaeria-specific band, then spot-checked rape seeds carrying Leptosphaeria sp. is not determined. The method of the present invention features high detection accuracy, good sensitivity, and strong feasibility.



21: 2019/06092. 22: 2019/09/16. 43: 2021/09/14 51: A01G; F04B; F16H 71: Wouter Theron 72: Wouter Theron 54: A WATER PUMP AND WATER SUPPLY APPARATUS

00: -A water wheel assembly 10 connected to a pulley assembly 12. The pulley assembly is addi-tionally connected to an impeller assembly 14 having inlet 16 and outlet 18 tubing. Rotation of the water wheel 20 results in rotation of the pulley assembly which results in rotation of the impeller. The rotation of the impeller causes water to be sucked into the inlet tubing which is located in the water source, and pumped through the outlet tubing. The outlet tubing enables the pumped water to be utilised distal from the water source. The outlet tubing may terminate in any one of a storage container (not shown), with an open end for simply depositing the water on to land, or be returned to the water source by a valve system (not shown) when water supply is no longer needed.



21: 2019/06349. 22: 2019/09/26. 43: 2020/07/22 51: F17C

71: CAMPER GAZ S.A. VRISANAKIS 72: VRISANAKIS, Andreas 33: GR 31: 20170100146 32: 2017-04-04

33: GR 31: 20170200047 32: 2017-04-04 54: SAFETY VALVE WITH METAL ELEMENTS FOR GAS CARTRIDGE 00: -

A cartridge (60) for storing liquefied gas under pressure comprises a container (67) and a valve (30). The valve (30) has a jacket (31) fitted to the container (67), which encloses a hollow body (34) with an inlet (39) and an 5 outlet. The hollow body (34) has in its interior a movable element (35) moving between a position that allows the flow of the gas outwards from the cartridge (60) and a position that does not. The hollow body (34) has one end that is within the container (67) and sealed with a bottom (38) that does not allow the flow of the gas from the said end towards the interior of the hollow body 0 (34). The bottom (38) does not allow the flow of gas either in liquid of gaseous form within the hollow body and ensures a flawless flow of the fluid without causing clogging of the valve.





Figure 8

21: 2019/06651. 22: 2019/10/09. 43: 2021/07/06 51: E21B

71: CATERPILLAR GLOBAL MINING EQUIPMENT LLC

72: HUDSON, CHARLES TAYLOR 33: US 31: 16/158,816 32: 2018-10-12 54: ROTARY HEAD GUIDE SYSTEM FOR DRILLING MACHINE 00: -

A rotary head guide system (30) for a mobile drilling machine (10) is disclosed. The rotary head guide system (10) may include a drilling mast (16) including a mast frame (24) having an opening (38) along substantially an entire length of the mast frame (24). The mast frame (24) may include edges (44) forming flanges (42) on each side of the opening (38). The flanges (42) may extend along the length of the mast frame (24). Additionally, the rotary head guide system (30) may include a rotary head (26) movably coupled to the drilling mast (16) by a support structure (50) including at least two guide assemblies (66) engaging the flanges (42).



21: 2019/06655. 22: 2019/10/09. 43: 2021/08/03 51: B22D; C22C

71: ARCELORMITTAL 72: Frédéric BONNET (Fren

72: Frédéric BONNET (French Citizen), Manuel BOBADILLA (French Citizen), Bertrand BELE (French Citizen), Valérie DAESCHLER (French Citizen)

33: IB 31: PCT/IB2017/052312 32: 2017-04-21 54: HIGH FORMABILITY STEEL SHEET FOR THE MANUFACTURE OF LIGHTWEIGHT STRUCTURAL PARTS AND MANUFACTURING PROCESS

00: -

A steel sheet having a composition comprising, by weight: 0.010% = C = 0.080%, 0.06% = Mn = 3%, Si = 1.5%, 0.005% = AI = 1.5%, S = 0.030%, P = 0.040%, Ti and B such that: 3.2% = Ti = 7.5% and (0.45xTi) - 1.35 = B = (0.45xTi) - 0.43, optionally Ni = 1%, Mo = 1%, Cr = 3%, Nb = 0.1%, V = 0.1%, the remainder being iron and unavoidable impurities resulting from the smelting. The steel sheet has a structure consisting of ferrite, at most 10% of austenite, and precipitates comprising eutectic precipitates of TiB2, the volume fraction of TiB2 precipitates with respect to the whole structure being of at least 9%, the proportion of TiB2 precipitates having a surface area lower than 8μ m2 being of at least 96%.



21: 2019/06908. 22: 2019/10/21. 43: 2021/08/03 51: C21D; C22C; C23C

71: ARCELORMITTAL

72: Pavan C VENKATASURYA (Indian Citizen), Anirban CHAKRABORTY (Indian Citizen), Hassan GHASSEMI-ARMAKI (Iranian Citizen) 33: IB 31: PCT/IB2017/052631 32: 2017-05-05 **54: METHOD FOR PRODUCING A HIGH**

STRENGTH STEEL SHEET HAVING HIGH DUCTILITY, FORMABILITY AND WELDABILITY, AND OBTAINED STEEL SHEET

00: -The m

The method comprises providing a cold-rolled sheet, with a composition containing: 0.15% = C = 0.23%, 1.4 % = Mn = 2.6%, 0.6% = Si = 1.3%, with C+Si/10 = 0.30%, 0.4% = AI = 1.0%, with AI = 6(C+Mn/10) - 10%2.5%, 0.010% = Nb = 0.035%, 0.1% = Mo = 0.5%, annealing the sheet at 860 °C-900 °C to obtain a structure consisting of at least 90% austenite and at least 2 % intercritical ferrite, guenching to a temperature between Ms- 0 °C and Ms-60 °C at a rate Vc higher than 30° C/s, heating to a temperature PT between 410 °C and 470 °C for 60s to 130s, hot-dip coating the sheet, and cooling to room temperature. The microstructure comprises 45 % to 68 % of martensite, consisting of 85 % to 95 % partitioned martensite having a C content of at most 0.45 %, and fresh martensite; 0 % to 15 % retained austenite; 2 % to 10 % intercritical ferrite; 20 % to 30% lower bainite.



- 51: C08G
- 71: BIO BOND APS

72: JENSEN, Martin, BRORSEN PEDERSEN, Thomas

33: EP 31: 17020184 32: 2017-04-26 54: RESINS DERIVED FROM RENEWABLE SOURCES AND STRUCTURES MANUFACTURED FROM SAID RESINS 00: -

In the present invention a family of preferably biobased resins is disclosed. The resins exhibit a broad range of applicability in terms of suitable processing techniques. The resins are designed in a manner that allows the introduction of functional in the resin backbone capable of providing adhesion towards reinforcements. The invention also relates to specimen manufactured with said resin.

21: 2019/07095. 22: 2019/10/28. 43: 2021/07/06 51: F42B

71: THE TRUSTEES FOR THE TIME BEING OF THE COINTECH TRUST

72: COETZEE, JACO, DANDRIDGE, MARK 33: ZA 31: 2018/05027 32: 2018-07-26 54: A DIE FOR RELOADING CARTRIDGE CASES 00: -

This invention concerns an adjustable die for use in reloading cartridges using a reloading press. The die includes a body carrying a locating member for, in use, locating the die in the reloading press. The die further has case sleeve having an interval cavity for receiving a case carried in use by a case holder located on a ram of the press. The case sleeve is receivable in an internal bore of the body which has a first, inner end and a second, outer end which is open for receiving the sleeve. A bullet engagement formation is located in the region of the first, inner end of the internal bore of the body and is shaped for engagement with a bullet carried by the case when the sleeve is moved along the internal bore towards the bullet engagement formation. The die further includes first adjustment means for adjusting the relative movement between the case sleeve and the body, thereby allowing adjustment of the seating depth of the cartridge, and second adjustment means for adjusting the relative movement between the case and the sleeve, thereby allowing adjustment of the headspace of the cartridge case.

21: 2019/06950. 22: 2019/10/22. 43: 2021/01/27



21: 2019/07158. 22: 2019/10/29. 43: 2021/08/24 51: A61K

71: THE BRIGHAM AND WOMEN'S HOSPITAL, INC.

72: WELLMAN, D. Andrew, TARANTO-MONTEMURRO, Luigi

33: US 31: 62/491,504 32: 2017-04-28

33: US 31: 62/558,814 32: 2017-09-14 54: METHODS AND COMPOSITIONS FOR

TREATING SLEEP APNEA

00: -

Methods and compositions for the treatment of conditions associated with pharyngeal airway muscle collapse while the subject is in a non-fully conscious state, e.g., sleep apnea and snoring, comprising administration of a norepinephrine reuptake inhibitor (NRI) and a muscarinic receptor antagonist.



21: 2019/07229. 22: 2019/10/30. 43: 2021/07/06 51: H04L

71: Alibaba Group Holding Limited

72: ZHANG, Wenbin, LEI, Hao, LI, Lichun, HUANG, Zhangjie

54: CROSS-ASSET TRADING WITHIN BLOCKCHAIN NETWORKS

Implementations are directed to cross-asset trading in blockchain networks, and include a first node providing transaction information based on a first value, a second value, and an exchange rate of a second node, receiving, from the second node, a first evidence set, a first range proof, and a digital signature of the second node, and submitting the transaction for verification based on the first range proof, a second range proof, the first evidence set, a second evidence set, a digital signature of the first node, and the digital signature of the second node, the transaction being executed to decrease a balance of the first node by the first value, increase a first balance of the second node by the first value, decrease a second balance of the second node by the second value, and increase a balance of the third node by the second value.



21: 2019/07306. 22: 2019/11/04. 43: 2021/08/03
51: A61K; B01D; B01F; B01J
71: NANOMI B.V.
72: LEDUC, Lucie Anne Aude, DUWEL, Robertus Franciscus, GIRONES NOGUE, Miriam, VELDHUIS, Gerrit Jan
33: NL 31: 2018744 32: 2017-04-19
54: METHOD AND SYSTEM FOR PRODUCING SUBSTANTIALLY MONO-DISPERSE PARTICLES OF A SUBSTANCE

00: -

A first fluid is dispersed in a second fluid to form an emulsion of micro-droplets having an average droplet size and having a droplet size distribution around said average droplet size and below a maximum droplet size. Said micro-droplets will lose their solvent to transform to micro-spheres exhibiting a particle size distribution around an average particle size and substantially below a maximum allowable particle size. Said micro-spheres are subjected to a micro-filter having a relatively narrow pore size distribution around an average pore size, which average pore size is between said average particle size and said maximum particle size. A filtrate of said micro-filter comprises a majority of said microspheres that is substantially void of micro-spheres having a particle size exceeding the maximum allowable particle size.



21: 2019/07398. 22: 2019/11/07. 43: 2021/08/03 51: C08L

71: BOREALIS AG

72: Thomas LUMMERSTORFER (Austria Citizen), Daniela MILEVA (Bulgarian Citizen), Georg GRESTENBERGER (Austria Citizen) 33: EP 31: 17177842.6 32: 2017-06-26 33: EP 31: 18159755.0 32: 2018-03-02 54: POLYPROPYLENE COMPOSITION WITH EXCELLENT SURFACE APPEARANCE 00: -

The present invention is directed to a heterophasic polypropylene composition (HC) comprising a modified polypropylene composition (mPP), a process for preparing said heterophasic polypropylene composition (HC) and an article comprising said heterophasic polypropylene composition (HC). The present invention is further directed to the use of a composition comprising a peroxide (PO) and a crosslinking agent (CA) to reduce tigerskin of a polypropylene composition (PP). 21: 2019/07399. 22: 2019/11/07. 43: 2021/08/03

- 51: B23K; C21D; C22C; C23C
- 71: ARCELORMITTAL

72: Jean-Marc PIPARD (French Citizen), Sébastien CREMEL (French Citizen), Anirban CHAKRABORTY (Indian Citizen), Damon PANAHI (Canadian Citizen), Olga GIRINA (American Citizen), Hassan GHASSEMI-ARMAKI (Iranian Citizen), Pavan CHALLA VENKATASURYA (Indian Citizen), Yacine BENLATRECHE (French Citizen) 33: IB 31: PCT/IB2017/000753 32: 2017-06-20 54: ZINC-COATED STEEL SHEET WITH HIGH RESISTANCE SPOT WELDABILITY 00: -

A method for producing a zinc or zinc-alloy coated steel sheet with a tensile strength higher than 900 MPa, for the fabrication of resistance spot welds containing in average not more than two Liquid Metal Embrittlement cracks per weld having a depth of 100µm or more, comprising the successive steps of providing a cold-rolled steel sheet, the nominal composition of which contains, in weight percent: 0.07% = C = 0.5%, 0.3% = Mn = 5%, 0.010% = AI =1%, 0.010% = Si = 2.45%, with 0.35% = (Si+Al) = 2.5%, 0.001% = Cr = 1.0%, 0.001% = Mo = 0.5%, and optionally, 0.005% = Nb =0.1%, 0.005% = V = 0.2%, 0.005% = Ti = 0.1%, 0.0001% = B = 0.004%, 0.001% = Cu = 0.5%, 0.001% = Ni = 1.0%, the remainder being iron and unavoidable impurities from the smelting, in contents such as S<0.003%, P<0.02%, N<0.008%, heating cold-rolled steel sheet up to a temperature T1 comprised between 550°C and Ac1+50°C in a furnace zone with an atmosphere (A1) containing from 2 to 15% hydrogen by volume, the balance being nitrogen and unavoidable impurities, so that the iron is not oxidized, then adding in the furnace atmosphere, at least one element selected from water steam or oxygen with an injection flow rate Q higher than (0.07%/h x a), a being equal to 1 if said element is water steam or equal to 0.52 if said element is oxygen, at a temperature T=T1, so to obtain an atmosphere (A2) with a dew point DP2 comprised between -15°C and the temperature Te of the iron/iron oxide equilibrium dew point, then heating the sheet from temperature T1 up to a temperature T2 comprised between 720°C and 1000°C in a furnace zone under an atmosphere (A2) of nitrogen containing from 2 to 15% hydrogen and more than 0.1% CO by volume, with an oxygen partial pressure higher than 10-21

atm., wherein the duration tD of heating of the sheet from temperature T1 up to the end of soaking at temperature T2 is comprised between 100 and 500s., soaking the sheet at T2, then cooling the sheet at a rate comprised between 10 and 400°C/s, then coating the sheet with zinc or zinc-alloy coating.

21: 2019/07565. 22: 2019/11/14. 43: 2021/06/22 51: A01M 71: S A SENSATIONAL SEAFOODS 72: GARRY TORBIN NEL 33: ZA 31: 2018/07639 32: 2018-11-14

54: A TRAP UNIT AND SYSTEM

This invention relates to a trap unit and system and more particularly, but not exclusively, to an octopus trap unit and system. The trap includes a housing having a main compartment with an entrance opening having a smaller cross sectional area than the main compartment as well as a barrier to at least partially hinder entrance into the main compartment.



21: 2019/07618. 22: 18/11/2019. 43: 2021/07/06 51: E01C

71: BRENTWOOD INDUSTRIES, INC. 72: LINGLE, LUKE, KULICK III, FRANK M 33: US 31: 16/153,057 32: 2018-10-05

54: GROUND REINFORCING STRUCTURE AND RELATED METHOD

00: -

A ground reinforcing structure includes first and second reinforcement sheets. The first reinforcement sheet has a first plurality of structural support rows and a connector row. The first plurality of structural support rows includes a first support row and a second support row. The connector row includes a first connector and a second connector. The second reinforcement sheet has a second plurality of structural support rows. The second plurality of structural support rows includes an end structural support row that has a first structural support connector and a second structural support connector. The first and second structural support connectors are secured by a first structural rib. The first connector is nested within the first structural support connector and the second connector is nested within the second structural support connector to secure the first reinforcement sheet to the second reinforcement sheet.



21: 2019/07642. 22: 2019/11/19. 43: 2021/07/06 51: F16K 71: MAC VALVES, INC. 72: NEFF, ROBERT, NEFF, MATTHEW, SIMMONDS, JEFF, JANSSEN, ERIC, RICHARDSON, JOSEPH 33: US 31: 16/196,318 32: 2018-11-20 54: PILOT ACTUATED CONTROL PILOT FOR OPERATING VALVE 00: -

A pulse valve assembly including a main valve and two pilot valves. The main valve includes a main valve body, main valve bore, and main valve spool. The main valve body includes an inlet port, an outlet port, and a pressure chamber at one end of the main valve bore. A first pilot valve selectively supplies pressurized fluid to the second pilot valve depending on the position of a poppet, which is controlled by a solenoid. A second pilot valve includes a spool that is driven by pressurized fluid from the first pilot valve. The second pilot valve selectively supplies pressurized fluid to the pressure chamber in the main valve causing the main valve spool to move towards the open or closed position. When the main valve spool is in the open position, pressurized fluid can flow through the main valve from the inlet port to the outlet port.



21: 2019/07860. 22: 2019/11/27. 43: 2021/07/06 51: E21D

71: REINFORCING STEEL CONTRACTORS (PTY) LIMITED

72: BECKLEY, Alleta, Petronella 33: ZA 31: 2018/07837 32: 2018-11-21 54: SURFACE SUPPORT

00: -

This invention relates to an elongated surface support 10 for stabilising an underground rock surface. The surface support 10 comprises a plurality of rods 12 which are spaced apart in a generally parallel relationship and extend along the length of the surface support 10, and a plurality of retaining members 14 which are spaced apart in a generally parallel relationship and extend transversely to the rods 12 across the width of the surface support 10. The retaining members 14 are attached to the rods 12 by means of a weld joint at each intersecting point 16. The arrangement is such that the surface support 10 is securable to a surface to thereby support the surface by operatively receiving anchor elements (not shown in Figure 1), which extend into the surface, through apertures 18 defined in-between adjacent rods 12 and retaining members 14.



21: 2019/07909. 22: 2019/11/28. 43: 2021/07/06 51: B64C; B64D 71: VENTER, JACQUES 72: VENTER, JACQUES 33: ZA 31: 2018/08197 32: 2018-12-05 54: PAYLOAD DELIVERY MECHANISM SUITABLE FOR USE WITH A DRONE 00: -

This invention relates to a payload delivery mechanism suitable for use with a drone and more particularly, but not exclusively, to a payload delivery mechanism suitable for delivering fishing bait or a fishing line to a desired location. The payload delivery mechanism includes an actuation mechanism adapted to receive an actuation signal, and a load carrying and release mechanism which is in use actuated by the actuation mechanism. The mechanism is characterised in that the load carrying and release mechanism is rotatably displaceable between a first position in which it is configured to carry a load, and a second position in which it is configured to release a load.



21: 2019/07938. 22: 2019/11/27. 43: 2021/07/06 51: A61K; A61P

71: ELPEN S.A. Pharmaceutical Industry
72: MAVROKORDOPOULOS, Spyridon
33: GR 31: 20180100533 32: 2018-11-28
54: STABLE MONOLITHIC FAST-RELEASE
PHARMACEUTICAL FORM OF EZETIMIBE AND
ROSUVASTATIN

00: -

The invention relates to formulations containing Ezetimibe and Rosuvastatin in monolithic form, characterized by optimum stability of the two active substances. In addition, these forms release the pharmacologically active substances at a rapid rate and do not require use of dispersions of the active substances or organic solvents for their production.

21: 2019/07975. 22: 2019/11/29. 43: 2021/07/06 51: A61K; A61P

71: FUJIFILM Toyama Chemical Co., Ltd. 72: KOBAYASHI, Hiroshi, MATSUMOTO, Yoshihiko 33: JP 31: 2017-109886 32: 2017-06-02 54: AGENT FOR PREVENTING OR TREATING TAUOPATHY 00: -

The present invention addresses the problem of providing an agent and a method for suppressing the progression of tauopathy such as Alzheimer-type dementia. 1-(3-(2-(1-benzothiophen-5-

yl)ethoxy)propyl)azetidin-3-ol or a salt thereof has an effect of decreasing the level of phosphorylated tau protein and on decreasing the level of amyloid-ß protein in the brain parenchyma, and is useful as a prophylactic or therapeutic agent for tauopathy. Thus, it is possible to prevent or treat tauopathy by administering 1-(3-(2-(1-benzothiophen-5-yl)ethoxy)propyl)azetidin-3-ol or a salt thereof.

21: 2019/07994. 22: 2019/12/02. 43: 2021/07/23 51: B60P; C02F 71: BLUEWATER (PTY) LTD. 72: STEERE, James Stuart 33: ZA 31: 2018/05968 32: 2018-09-06 54: A MOBILE WATER DISPENSING APPARATUS 00: -

A mobile water dispensing apparatus includes a trailer chassis having at least one road-engaging wheel and a connection point for connection to a draught vehiclea and a main water reservoir mounted or mountable to the trailer chassis, the main water reservoir having a feed outlet, the main water reservoir being configured to contain at least non-filtered or non-potable water. The apparatus also includes a water filter device connected to the feed outlet, the water filter device configured to filter water fed from the main reservoir, thereby to produce filtered water and a water dispensing outlet in fluid flow communication with the water filter device, the water dispensing outlet being configured to dispense the filtered water on demand.



21: 2019/07998. 22: 2019/12/02. 43: 2021/07/23 51: C22C

71: Tshwane University of Technology

72: EZE, Azunna, SADIKU, Rotimi, JAMIRU, Tamba, DUROWOJU, Mondiu, KUPOLATI, Williams, IBRAHIM, Idowu David

33: ZA 31: 2018/08164 32: 2018-12-04 54: THERMAL CONDUCTIVITY ALLOY 00: -

The invention provides a composite material comprising copper, niobium and graphene.

- 21: 2019/08051. 22: 2019/12/04. 43: 2021/07/06
- 51: G05D
- 71: CATERPILLAR INC.
- 72: GRAVES, NOLAN
- 33: US 31: 16/212,107 32: 2018-12-06

54: EARTH-MOVING MACHINERY COLLISION THREAT FILTERING

00: -

A method for collision threat filtering is disclosed. The method may include determining trajectory information associated with a plurality of machines. The method may include identifying, based on the trajectory information, one or more potential collisions among the plurality of machines, the one or more potential collisions including a potential collision between a first machine, of the plurality of machines, and a second machine of the plurality of machines. The method may include determining whether to filter the potential collision between the first machine and the second machine. Whether the potential collision is filtered may be determined based on a set of filtering parameters and machine information associated with at least one of the first machine or the second machine. The method may include selectively performing a collision prevention action, associated with the potential collision, basedon whether the potential collision is to be filtered.



21: 2019/08061. 22: 2019/12/04. 43: 2020/10/22 51: G06F

71: SHAFFER, Jon Frank, SMITH, Gary 72: SHAFFER, Jon Frank, SMITH, Gary

33: US 31: 62/501,752 32: 2017-05-05

54: SYSTEM AND METHOD FOR GENERATING A DISPLAY FROM MULTIPLE MEDIA FORMATS 00: -

A system and method for generating a display on a client device where a display template is created with embedded tags to identify media format types to permit the combination of different types of media on a single display. The system and method may incorporate artificial intelligence to personalize the display to the needs of the user.



- 21: 2019/08083. 22: 2019/12/05. 43: 2021/08/24
- 51: E04B; G09F

71: SIDNEY JOHANNES

72: Sidney JOHANNES

54: MOBILE ILLUMINATED MARQUEE FRAME 00: -

The invention describes a mobile illuminated marquee frame comprising a hollow marquee frame, wherein the marquee frame is sized for one or more subjects to be framed therein, and wherein the hollow marquee frame comprises an illumination means within and is manufactured from perforated plate, or comprises one or more regions of perforated plate.



21: 2019/08203. 22: 2019/12/10. 43: 2021/08/03 51: F16D

71: BPW BERGISCHE ACHSEN KG

72: Thomas KLAAS (German Citizen), Michael PEHLE (German Citizen)

33: DE 31: 10 2017 116 112.0 32: 2017-07-18 54: DISC BRAKE WITH A TENSIONING DEVICE ARRANGED THEREIN AND SUPPORTING ROLLER FOR THE TENSIONING DEVICE 00: -

The invention proposes a disc brake having a brake caliper (1) and a tensioning device arranged therein for applying force to the brake linings of the disc brake, wherein part of the tensioning device is a brake lever (10) which can be actuated by a force element and preferably by a compressed air cylinder. The brake lever is composed of a lever arm (14), against which the force element is supported, and a brake application shaft (15), which is supported against a pressure piece (8) acting towards the brake linings, and is also supported from the inside against the brake caliper, wherein the brake caliper (1) and the brake application shaft (15) face each other and are formed as shells (21, 22) in which a supporting roller (20) with a roller axis (A) running transverse to the tensioning direction (Z) is mounted. To keep the mutual movability of the parts involved low by the simplest measures possible and without the need for additional parts, the supporting roller (20) is supported with the lateral surface (20A) thereof directly in one of the two shells (21, 22) and is designed to be non-rotatable or have only limited rotational movement with respect to this shell. The supporting roller (20) also serves as a means to centre the brake lever (10) laterally in the brake caliper. A supporting roller particularly suited to these purposes is also to be created.



21: 2019/08204. 22: 2019/12/10. 43: 2021/08/03
51: B01D; B03D; C02F
71: VEOLIA WATER SOLUTIONS & TECHNOLOGIES SUPPORT
72: Abdelkader GAID (French Citizen), Hervé PAILLARD (French Citizen), Philippe SAUVIGNET (French Citizen)
33: FR 31: 1756399 32: 2017-07-06
54: WATER TREATMENT PLANT HAVING INTEGRATED BALLASTED FLOCCULATION AND

DECANTATION, AND A CORRESPONDING METHOD

The invention relates to a water treatment plant comprising: means (1) for supplying water for treatment, wherein said water has been coagulated previously, a flocculation-decantation device (11) having means (5) for dispensing at least one flocculant reagent, means (6) for dispensing at least one ballast, means (20d) for extracting decantation sludge, means (9) for discharging the treated water, means (14) for separating said ballast contained in the ballasted sludge, and means (8) for recycling the ballast that has been cleaned in this manner back into the flocculation-decantation device (11), characterised in that: said flocculation-decantation device (11) has a single tank (12) in the lower portion of which a stirring mechanism (13) is arranged; wherein said single tank (2) comprises slats (10) in its upper portion; and said slats are separated from the stirring mechanism (13) by a distance "d" which is between approximately 0.5 metres and approximately 3 metres. The invention also relates to a method using said plant.



21: 2019/08394. 22: 2019/12/17. 43: 2021/08/03 51: B64C

71: Wingcopter GmbH

72: Jonathan HESSELBARTH (German Citizen) 33: DE 31: 10 2017 112 452.7 32: 2017-06-06 54: CONTROL METHOD FOR CONTROLLING A YAW ANGLE AND A ROLL ANGLE OF AN AIRCRAFT THAT TAKES OFF VERTICALLY 00: -

The invention relates to a control method for controlling a yaw angle #z and a roll angle #x of an aircraft (1) that takes off vertically, said aircraft having at least two drive groups (3) arranged in opposite side regions of the aircraft (1) at a distance from a fuselage of the aircraft. Each drive group (3) has at least one first drive unit (4, 5). The first drive unit (4, 5) is arranged at a distance from the fuselage such that it can pivot about a pivot angle # in a horizontal flight position and a vertical flight position.



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 FERRETIC 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: 2019/08616. 22: 2019/12/23. 43: 2021/08/24 51: A61P; A61K 71: GLYTECH LLC. 72: JAVITT, Daniel C. 33: US 31: 62/510,801 32: 2017-05-25 33: US 31: 62/518,020 32: 2017-06-12 54: FORMULATIONS FOR TREATMENT OF **POST-TRAUMATIC STRESS DISORDER** 00. -

Provided herein are compositions for reducing symptoms of post-traumatic stress disorder. The compositions include a combination of an N-methyl-D-aspartate (NMDA) receptor antagonist and an anti-depression agent.

Figure 1



21: 2020/00006. 22: 2020/01/02. 43: 2021/08/26 51: E02D

71: QINGDAO UNIVERSITY OF TECHNOLOGY

72: Changfeng YUAN, Zijin YUAN, Haojie YU

33: CN 31: 201811589103.0 32: 2018-12-25

54: ON-LINE CONTROL METHOD FOR APPLYING PRESTRESS TO STEEL SUPPORT OF DEEP **FOUNDATION PIT**

00: -

The present invention discloses to an on-line control method for applying prestress to a steel support of a deep foundation pit. The steel support is mounted by drawing centers on the plate surface of a purlin hanging plate and two end faces of the steel support and aligning the centers with each other, the steel support is adjusted to be in a horizontal position with reference to a static leveling device provided on the steel support, which ensures that the steel support is mounted on the same axis, so that the steel support is in the axial compression state. A reverse thruster is arranged between the movable end of each steel support and the purlin hanging plate to realize realtime monitoring of prestress to each steel support and remote real-time control of prestress loading or unloading.



21: 2020/00018. 22: 2020/01/02. 43: 2021/08/26 51: B65G; F16C; G01P

71: INDUSTRIA METALMECANICA RIVET S.A. 72: CELEDON VALENZUELA, Enrique, CELEDON FERNANDEZ, Jaime

33: WO 31: PCT/CL2018/050011 32: 2018-02-16 54: MULTIFUNCTION SENSOR CONTAINED IN A SEAL OF A CONVEYOR BELT ROLLER 00: -

The invention relates to a multifunction sensor contained in a seal of a conveyor belt roller, which comprises a multifunction sensor disposed next to a seal of a roller and contiguous to a bearing, which are assembled with a shaft of the roller which has a casing, the sensor being contained inside a cavity. The multifunction sensor is positioned at at least one end of the roller, selected to be the sensing roller in a monitoring system, and is formed by a plate, a portion of said plate being equipped with an electronic circuit containing a transceiver, a radio frequency identification (RFID) reader, a magnetic sensor, a central processor, a sound sensor, a triaxial accelerometer and a temperature sensor. In addition, an RFID tag and a geolocation module are disposed close to said electronic circuit. A battery or group of batteries or another energy storage device is disposed on the rest of the plate.



- 21: 2020/00080. 22: 2020/01/07. 43: 2021/08/03 51: E04B
- 71: ZEPELIN, S.R.O.

72: Juraj BREZAN (Slovakian Citizen), Henrich HODÁK (Slovakian Citizen), Pavol OCHODNICKÝ (Slovakian Citizen)

33: SK 31: PUV50059-2017 32: 2017-06-27 54: EXPANDABLE CONTAINER SHELTER 00: -

Expandable container shelter, where the container comprises elements pivotally connected to the container in vertical mounts at the ends of longitudinal side of the container, provided for creating a structure designed for extending the inner space of the container to a shelter connected with this container at the longitudinal side of the container characterized in that elements provided for creating the structure designed for extending the inner space of the container (1) to the shelter (2) connected with this container (1) are at least on one longitudinal side of the container (1) composed of one pair of supporting frames (3), where the supporting frame (3) comprises at least one horizontal beam (31), wherein the supporting frame (31) has length in the range up to dimension equal to inner length of the container (1), where the shelter (2) roof (6) supports (5) are connected to the supporting frames (3).



Fig. 1

21: 2020/00193. 22: 2020/01/10. 43: 2021/08/16 51: A61K; A61P 71: GLYTECH LLC.

72: JAVITT, Daniel C.

33: US 31: 62/518,020 32: 2017-06-12

54: TREATMENT OF DEPRESSION WITH NMDA ANTAGONISTS AND D2/5HT2A OR SELECTIVE 5HT2A ANTAGONISTS 00: -

This application relates to combination compositions for use in treatment of depression, and which can alleviate the anxiogenic side effects of certain antidepressant and antipsychotic medications. Methods for treatment of depression and medicament side effects, particular anxiety, akathisia, and associated suicidality are also described herein.



21: 2020/00234. 22: 2020/01/14. 43: 2021/08/16 51: C23C 71: ARCELORMITTAL 72: Daniel CHALEIX (French Citizen), Christian ALLELY (French Citizen), Eric SILBERBERG (Belgium Citizen), Sergio PACE (Belgium Citizen), Lucie GAOUYAT (Belgium Citizen) 33: IB 31: PCT/IB2017/001048 32: 2017-08-30 54: A COATED METALLIC SUBSTRATE 00: -

The present invention relates to a coated metallic substrate comprising at least a first coating consisting of aluminum, such first coating having a thickness between 1.0 and 4.5µm and being directly topped by a second coating based on zinc, such second coating having a thickness between 1.5 and 9.0µm and wherein the thickness ratio of the first coating with respect to the second coating is between 0.2 and 1.2.



21: 2020/00270. 22: 2020/01/15. 43: 2021/07/15 51: B60T; F16D; F16H; G01C 71: ERKE ERKE ARASTIRMALARI VE MÜHENDISLIK A.S. 72: ÖZTÜRK, Mustafa Naci **54: BRAKING DEVICE AND METHOD** 00: -

The present invention relates to a braking device and method, and particularly but not exclusively relates to a gyroscopic braking device and method. A braking device (1) comprising a body (2); inner supporting means (4) for supporting the body (2) for rotation about a first axis (101); outer supporting means (6) for supporting the inner supporting means (4) for rotation about a second axis (102); means (14,15,16,30,31) for rotating the body (2) about the first axis (101); means (17) for connecting a rotation that is desired to be braked about a fourth axis (104) to the body (2) about the second axis (102); suspension means (9,10,11,29) for supporting the outer supporting means (6).



21: 2020/00298. 22: 2020/01/14. 43: 2021/09/03 51: C02F

71: Qilu University of Technology

72: Zhengshun WANG, Yuan WANG, Zaiyong JIANG

33: CN 31: 201910514715.1 32: 2019-06-14 54: METHOD FOR RECYCLING HAZARDOUS WASTE SULFURIC ACID

00: -

The present invention provides a method for recycling hazardous waste sulfuric acid, including the following steps: adding an alkali aqueous solution to the hazardous waste sulfuric acid to adjust pH to 5-8, and then filtering to obtain TiO2 and filtrate; washing and drying the TiO2 to obtain refined TiO2; subjecting the filtrate to a third-effect evaporator, a second-effect evaporator, and a firsteffect evaporator to obtain a concentrated liquid 3; performing high-temperature spray drying on the concentrated liquid 3 to obtain a salt product; and obtaining clean water after ozone treatment, cartridge filtration, and reverse osmosis treatment on the condensed liquid produced in the above process. For specific hazardous waste sulfuric acid, the method of the present invention can effectively separate TiO2 in the hazardous waste sulfuric acid and salt substances generated during processing, thereby realizing recycling of the hazardous waste sulfuric acid.

21: 2020/00317. 22: 2020/01/16. 43: 2021/08/16 51: B67D; G05D 71: LEGACY US, LLC 72: DALTON, JEFFREY TRAVIS, MCCARTHY, JOSEPH K., COSTLE, CAREY 33: US 31: 15/488,319 32: 2017-04-14 54: REMOTE REGULATOR PRESSURE ADJUSTMENT TOOL AND METHOD USING THE SAME 00: -

A pressure regulator with a spring moveably disposed therein, an adjuster cap disposed in said first housing and in physical contact with an end of said spring; a pressure regulator adjustment tool for adjusting an output pressure of the pressure regulator, comprising: an adjuster piston moveably disposed within the bore of a first housing, where said adjuster piston understood a plurality of alignment keys disposed on a distal end thereof and includes a threaded aperture extending inwardly from a proximal end thereof; a rotatable adjustment knob comprising a threaded shaft extending outwardly therefrom; where rotating said knob in a first direction causes said adjuster piston to move downwardly in said bore.



21: 2020/00347. 22: 17/01/2020. 43: 2021/07/07

51: G21C

71: X-ENERGY LLC

72: KIM, HOWARD, PAPPANO, PETER J

33: US 31: 16/017,291 32: 2018-06-25 33: US 31: 62/526,014 32: 2017-06-28 54: MULTI-INLET GAS DISTRIBUTOR FOR CHEMICAL VAPOR DEPOSITION COATING OF TRISO PARTICLES 00: -

A multi-inlet gas distributor for a fluidized bed chemical vapor deposition reactor may include a distributor body having an inlet surface, an exit surface opposed to the inlet surface, and a side perimeter surface. The distributor body may also include multiple-inlets evenly spaced from each other, wherein the multiple-inlets penetrate the distributor body from the inlet surface to a first depth. The distributor body may additionally include coneshaped apertures connecting to corresponding ones of the multiple-inlets at the first depth and extend from the first depth toward the exit surface. An apex may be formed on the exit surface at the intersection of the cone-shaped apertures.



21: 2020/00368. 22: 2020/01/20. 43: 2021/09/17 51: B24B 71: QINGDAO UNIVERSITY OF TECHNOLOGY, 2) SHANGHAI JINZHAO ENERGY SAVING TECHNOLOGY CO., LTD 72: Changhe LI, Dongzhou JIA, Yanbin ZHANG, Naiqing ZHANG, Yali HOU, Qidong WU 54: GRINDING MEDIUM SUPPLY SYSTEM COUPLED WITH LOW-TEMPERATURE COOLING AND NANOPARTICLE JET MINIMUM QUANTITY LUBRICATION 00: - The present invention relates to a grinding medium supply system coupled with low-temperature cooling and nanoparticle jet minimum quantity lubrication. It includes at least one minimum quantity lubrication and low-temperature cooling nozzle combined unit; the unit is disposed on a side of a grinding wheel guard of a grinding wheel, and is fit with a workpiece on a workbench; the unit includes a minimum guantity lubrication atomizing micro-nozzle and a low-temperature cooling nozzle; the minimum quantity lubrication atomizing micro-nozzle is connected to a nanofluid tube and a compressed air tube, the low-temperature cooling nozzle is connected to a low-temperature coolant tube; the nanofluid tube, the compressed air tube and the lowtemperature coolant tube of each unit are connected to a nanofluid supply system, a low-temperature medium supply system and a compressed air supply system through a control valve; the nanofluid supply system, the low-temperature medium supply system and the compressed air supply system are connected to a control device.



21: 2020/00406. 22: 2020/01/21. 43: 2021/08/10 51: G01N

71: STEINFURTH MESS-SYSTEME GMBH 72: Johann ANGRES (German Citizen), Martin FALKENSTEIN (German Citizen) 33: DE 31: 10 2017 119 380.4 32: 2017-08-24

54: ANALYSIS METHOD FOR FOODSTUFFS IN PACKAGING 00: -

The invention relates to a test device (10) for analysing, more particularly for detecting, non-

destructively, pressure and temperature, and preferably for detecting a gas concentration in foodstuffs (50.4) contained in packaging (50), the test device having: - a detection assembly (30) for detecting at least one parameter in a foodstuff (50.4) contained in packaging (50), the parameter being specific to a property to be examined of the foodstuff (50.4). According to the invention, the test device (10) is designed as a hand-held device.



21: 2020/00414. 22: 2020/01/21. 43: 2021/08/16 51: F16D

71: KWD KUPPLUNGSWERK DRESDEN GMBH 72: Martin KRONDORF (German Citizen), Thomas HÄHNEL (German Citizen)

33: DE 31: 10 2017 212 604.3 32: 2017-07-21 54: CLUTCH AND METHOD FOR THE PRODUCTION THEREOF

00: -

The invention relates to the field of mechanical engineering and relates to a clutch as can be used, for example, in vehicle drives, in particular rail vehicle drives. It is the problem of the present invention to specify a clutch, by way of which the electric contact between the drive side and the output side of the clutch is prevented reliably, and to specify a simple and inexpensive method for the production thereof. The problem is solved by way of a clutch, at least consisting of a clutch half on the drive side and a clutch half on the output side, wherein at least one clutch half has at least two hollow cylinders which are arranged above one another and are arranged in a bore of the clutch half, wherein the second hollow cylinder consists of electrically insulating material, and wherein at least the first hollow cylinder, at least on its outer circumferential surface, and at least the inner circumferential surface of the bore have knurling at least in part.



21: 2020/00415. 22: 2020/01/21. 43: 2021/04/14 51: E02F

71: HENSLEY INDUSTRIES, INC.

72: JAKUBISIN, John Scott, AUG, Keith Daniel, BILAL, Mohamad Youssef 33: US 31: 62/542,079 32: 2017-08-07

33: US 31: 16/052,741 32: 2018-08-02 54: BUCKET LIP STABILIZER STRUCTURE 00: -

A stabilizer structure includes an elongated main body portion having an upper portion with outwardfacing side surfaces and a lower portion below the upper portion, the lower portion being greater in width than the upper portion. The stabilizer structure also includes a hole in a top surface of the upper portion. The stabilizer also includes a forward portion integrated with the main body portion as a single monolithic piece. The forward portion includes a bridge section, a first prong extending from the bridge section, and a second prong extending from the bridge section. The first prong, second prong, and bridge section share a single forward-facing curved surface and a single rear-facing curved surface, the forward-facing curved surface having a different curve than the rear-facing curved surface.



21: 2020/00764. 22: 2020/02/05. 43: 2021/07/06 51: A61F

71: Edwards Lifesciences Corporation
72: LEVI, Tamir S., NEUMANN, Yair A.
33: US 31: 62/545,916 32: 2017-08-15
54: SKIRT ASSEMBLY FOR IMPLANTABLE
PROSTHETIC VALVE
00: -

Embodiments of an implantable prosthetic valve are disclosed. The valve can have an annular frame having a plurality of frame members and a skirt assembly. The skirt assembly can include a laminate having a fabric layer sandwiched between a first covering member and a second covering member. At least one surface of the fabric layer can be exposed at one or more windows in the second covering member. The skirt assembly can be coupled to the annular frame by a suture extending through the fabric layer at the one or more windows and around at least one of the plurality of frame members. Methods for making such an implantable prosthetic valve are also disclosed.



21: 2020/00801. 22: 2020/02/07. 43: 2021/09/09 51: H04W 71: PAYMENT24 GROUP (PTY) LTD 72: DANIEL. Nolan. RAHIL. Shadab

33: ZA 31: 2019/02704 32: 2019-04-30 54: A SYSTEM FOR VEHICLE IDENTIFICATION IN A FUEL DISPENSING ENVIRONMENT 00: -

The invention provides a system for vehicle verification in a fuel dispensing environment, prior to enabling the dispensation of fuel to the vehicle, the system including:a first vehicle specific identification device fixable to a vehicle into which fuel is required to be dispensed that includes a first vehicle identifier; a second vehicle specific identification device fixable to the vehicle that includes a second vehicle identifier; a first reader which is configured to read the first vehicle identification device and to transmit a first stream of text data based on the first vehicle identifier; a second reader which is configured to read the second vehicle identification device and to transmit a second stream of text data based on the second vehicle identifier; a remotely located central server with is configured for communication with the first and the second readers and with a forecourt controller of the fuel retailer; at least one database accessible to the central server that contains first information on a fuel purchasing customer which includes a first association between the customer, the first vehicle identifier and the second vehicle identifier and a second association between the vehicle and an amount of fuel to be dispensed; and second information on a fuel retailer which includes

a third association between the first reader, the second reader and a fuel dispenser of the fuel retailer; wherein, on receipt of the first and the second streams of data from the first and the second vehicle specific identification device respectively, the server is operable to: interrogate the first information to verify the vehicle as belonging to the customer and to obtain the amount of fuel to be dispensed; interrogate the second information to identify the fuel dispenser required to dispense the fuel; and send an instruction to the controller to actuate the fuel dispenser to dispense the amount of fuel.



21: 2020/00827. 22: 2020/02/10. 43: 2021/07/06 51: G06Q

71: ALPHA DIRECT INSURTECH PTE. LTD
72: IYER, Arun, Parameswaran
33: ZA 31: 2019/04244 32: 2019-06-28
54: PACKAGED RETAIL INSURANCE PRODUCT
AND PROCESS AND SYSTEM FOR
IMPLEMENTATION THEREOF

00: -

The invention provides a packaged insurance product comprising a tangible, saleable item having one or more fields on which is provided a description at least of the risk type being insured, the amount of the risk being insured, the terms and conditions of such an agreement, the multiple methods of activation, the documents necessary for activation and for submitting a claim, the purchase price of the item, some or all of which is the premium for the insured risk, and/or one or more tangible or virtual unique identifier in or on the saleable item; and wherein a unique identifier is contained or provided within or on the exterior of the saleable item, and one or more of the fields of the saleable items contains marketing information to attract purchasers at a point of sale in a retail establishment. The invention extends to a system and process for activation of a packaged insurance product of the invention, wherein initiation of coverage and the ability to submit a claim follows the initiation process and requires satisfactorily submitting all Know Your Customer documentation requirements as set out by relevant insurance regulations in-person at the company's offices, in-person at a kiosk, or in any other manner explicitly outlined in or on the tangible, saleable item, on the company's mobile application, on the company's website, or on any other formal outlet of company information.



21: 2020/00845. 22: 2020/02/10. 43: 2021/06/30 51: A61F

71: Edwards Lifesciences Corporation

72: LEVI, Tamir S., PINHAS, Giolnara, MAROM, Liraz, SHERMAN, Elena, MIZRAHI, Noam, RUIZ, Delfin Rafael, PAWAR, Sandip Vasant 33: US 31: 62/544,704 32: 2017-08-11 54: SEALING ELEMENT FOR PROSTHETIC HEART VALVE

00: -

An implantable prosthetic valve that is radially collapsible to a collapsed configuration and radially expandable to an expanded configuration includes an annular frame having an inflow end, an outflow end, and a longitudinal axis. A leaflet structure is positioned within the frame and secured thereto, and

a sealing element is secured to the frame. The sealing element includes a first woven portion extending circumferentially around the frame. The first woven portion includes a plurality of interwoven filaments. The sealing element further includes a second woven portion extending circumferentially around the frame and spaced apart from the first woven portion along the longitudinal axis of the frame. At least a portion of the filaments exit the weave of the first woven portion and form loops extending radially outwardly from the frame.



21: 2020/01016. 22: 2020/02/18. 43: 2021/08/24 51: H04B; H04W 71: VIASAT, INC. 72: DANKBERG, Mark 33: US 31: 62/539933 32: 2017-08-01 54: SCINTILLATION MITIGATION IN GEOGRAPHICALLY DISTRIBUTED SATELLITE ACCESS NODES

00: -

Systems and methods are described for scintillation mitigation in satellite communications systems with geographically distributed access nodes. Some embodiments operate in context of a bent-pipe satellite that illuminates user and gateway coverage areas with fixed spot beams. Beamforming can be used, along with coordinated, phase-synchronized communication by the distributed access nodes, to generate signals that coherently combine via the satellite. Scintillation and/or other atmospheric irregularities can degrade phase synchronization at the access nodes. Accordingly, embodiments can monitor phase tracking performance of the access nodes to detect when a phase tracking error occurs in at least one of the access nodes. In response to detecting the phase tracking error, embodiments can inhibit transmitting of forward uplink data signals by at least that access node.



21: 2020/01066. 22: 19/02/2020. 43: 2021/08/16 51: A61K; C07K 71: MAB DISCOVERY GMBH 72: Stephan FISCHER (German Citizen), Karsten BECKMANN (German Citizen) 33: EP 31: 17191974.9 32: 2017-09-19 54: AGONISTIC CD40 ANTIBODIES 00: -

The present invention relates to humanized monoclonal antibodies or antigen-binding fragments thereof that specifically bind to human CD40 receptor and induce CD40 signaling independent of Fey mediated CD40 receptor crosslinking. The antibodies of the present invention bind to a CD40 epitope that overlaps with the epitope of the CD40 ligand and can activate human APCs. The present invention also provides for compositions comprising said antibodies and uses for the antibodies and compositions in the treatment of patients suffering from cancer.

Antibody	Cell binding EC50 [ng/ml]
MAB-16-0262	6,3
MAB-16-0346	49,5
MAB-16-0451	8,9
MAB-16-0489	3,2
MAB-16-0484	21,9
MAB-16-0464	3,0
MAB-16-0267	3,4
MAB-16-0406	6,6
MAB-16-0400	5,8
CP-870-IgG1-LALA	14,5

21: 2020/01144. 22: 2020/02/24. 43: 2021/07/23 51: G06K

71: MMAPRO IT SOLUTIONS (PTY) LTD

72: MSIZA, Ishmael Sbusiso

33: ZA 31: 2017/05009 32: 2017-07-24 54: SYSTEM FOR AND METHOD OF CLASSIFYING A FINGERPRINT

- :00

This invention relates to a method of classifying a captured image of a fingerprint into a preselected fingerprint class, the method comprising the steps of: providing an orientation image of at least part of the captured image, the orientation image comprising a matrix of pixels that represent the local orientation of every ridge in the at least part of the captured image; detecting a first quasi-singular point corresponding with first singular point of the fingerprint in a first region of the orientation image; detecting a second guasi-singular point corresponding with a second singular point of the fingerprint in a second region of the orientation image; and utilising data relating to the detected first and second guasi-singular points to classify the fingerprint in the captured image. The invention extends to a related system and nontransitory computer-readable medium thereof.



- 21: 2020/01145. 22: 2020/02/24. 43: 2021/07/23
- 51: G06F; G06K

71: MMAPRO IT SOLUTIONS (PTY) LTD

72: MSIZA, Ishmael Sbusiso

33: ZA 31: 2017/05008 32: 2017-07-24

54: SYSTEM FOR AND METHOD OF ADJUSTING THE ORIENTATION OF A CAPTURED IMAGE OF A SKEWED FINGERPRINT

00: -

This invention relates to a method of adjusting the orientation of a captured image of a skewed fingerprint, the method comprising the steps of: separating a foreground of the captured image from a background of the captured image; estimating a centroid of the foreground with respect to a predefined reference point that is located in one of the foreground and background of the captured image of the fingerprint, wherein the estimated centroid of the foreground defines a first foreground axis; estimating an angle of orientation of a predefined point of the foreground of the captured image with respect to the first foreground axis of the estimated centroid; and pivoting or rotating the captured image by the estimated orientation angle so as to correct the orientation of the skewed fingerprint in the captured image. The invention also relates to a unique manner of establishing a centroid of the foreground of the captured image.



21: 2020/01291. 22: 2020/02/28. 43: 2021/08/19 51: A61M

71: SMITH & NEPHEW PLC

72: HARRISON, Frederick, Jethro, HESKETH, Mark, Richard, KELBIE, William, ROBINSON, Joseph, William, STEWARD, Daniel, Lee, WEST, Grant 33: US 31: 62/558264 32: 2017-09-13

54: NEGATIVE PRESSURE WOUND TREATMENT APPARATUSES AND METHODS WITH INTEGRATED ELECTRONICS 00: -

Disclosed embodiments relate to apparatuses and methods for wound treatment. A wound dressing apparatus can comprises a wound contact layer, at least one absorbent layer, an electronics unit comprising a negative pressure source unit, and a cover layer. The electronics unit can comprise a plurality of sensors positioned on a printed circuit board and an inlet protection mechanism of the negative pressure source unit comprises a first recess in fluid communication with a first sensor and the outlet or exhaust mechanism negative pressure source unit comprises a second recess in fluid communication with a second sensor.



21: 2020/01374. 22: 2020/03/04. 43: 2021/08/26 51: A63B; G09B; H04B 71: KEIL, Andrew Marc 72: KEIL, Andrew Marc 33: ZA 31: 2019/01393 32: 2019-03-06 54: AVIATION TRAINING SYSTEM AND METHOD 00: -

An aviation training system for improving aircraft flying skills of a trainee; the system comprising: a miniature aircraft having communication means and a wingtip provided with a first connector; an elongate link having a second connector opposite a third connector, the second connector being adapted to be operatively connected with the first connector; at least one support structure central to the aviation training system and operatively positionable remote from said aircraft but within visual monitoring distance thereof and comprising a fourth connector for operative connection with the third connector; and a cockpit representation, for accommodating the trainee and an instructor, being in electronic communication with said communication means, the cockpit representation being equipped with frequency-agile transmitter and receiver systems and an airborne control system for controlling flight of said aircraft via said communication means when said aircraft is flown by said trainee from a seated position in said cockpit representation while said aircraft is connected via the respective connectors to the elongate link and to said at least one support structure.and a method of using same to improve availability to information and access to aid to persons being cared for in times of need. The invention extends to a monitoring system and apparatus, locatable at a cockpit representation where a pilot trainee to be monitored is present, and to an aviation training method.



21: 2020/01534. 22: 2020/03/11. 43: 2021/09/02 51: F16B

71: UNIVERSITY OF JOHANNESBURG 72: COETZER, Devon John, NEL, Andre Leon 33: ZA 31: 2017/05444 32: 2017-08-11 54: PLUG BOLT 00: -

This invention relates to a plug bolt (1) and more specifically, but not exclusively, to a plug bolt (1) for use with a device such as an air-cooled heat exchanger. One of the problems with conventional plug bolts is that when the bolts are over tightened, it may damage the thread of the device it is installed in. Once the thread is damaged it has to be repaired, causing downtime, or where it is not possible to repair, the device will have to be replaced. It is accordingly an object of this invention to provide a plug bolt (1) which, at least partially, alleviates some of the problems associated with the prior art. It is envisaged that the invention will provide a plug bolt (1) which fails before it is overtightened to prevent damage, is easy to manufacture, and is as simple to use as the prior art.



21: 2020/01632. 22: 2020/03/16. 43: 2021/09/07 51: C21D; C23C

71: ARCELORMITTAL

72: Anirban CHAKRABORTY, Hassan GHASSEMI-ARMAKI

33: IB 31: PCT/IB2017/001279 32: 2017-10-24 54: A METHOD FOR THE MANUFACTURE OF A GALVANNEALED STEEL SHEET 00: -

The present invention relates a method for the manufacture of a galvannealed steel sheet.

21: 2020/01642. 22: 2020/03/16. 43: 2021/09/02 51: C22B

71: ARCELORMITTAL

72: Gaëlle HERZERHO, Hélène BOUCARD, Ana-Maria IOSIF

33: IB 31: PCT/IB2017/058327 32: 2017-12-22 54: METHOD FOR THE TREATMENT OF IRON-CONTAINING SLUDGE 00: -

A method for the treatment of sludge containing iron, said method comprising - a leaching step wherein the sludge containing iron is mixed with an acid and an oxidation agent so as to create an oxidized leachate, and - a step of precipitation of iron wherein the oxidized leachate is mixed with a neutralizing agent so as to create a mixture composed of a solid part comprising precipitated iron and of a liquid part, the neutralizing agent comprising at least 30% in weight of dust recovered from a bag filter treatment of ironmaking, steelmaking, coke making or sintering gas.



21: 2020/01644. 22: 2020/03/16. 43: 2021/09/07 51: B24C

71: ARCELORMITTAL

72: Frédéric CHATEAU, Julien JEANNEAU, Pierre RICHET, Florent SPONEM

33: IB 31: PCT/IB2017/057131 32: 2017-11-15 54: TREATMENT METHOD FOR A CUTTING PIECE, AND ASSOCIATED EQUIPMENT 00: -

The invention relates to a method of treatment of a cutting piece (2). This method comprises a first step in which a cutting surface (5) of this cutting piece (2) is subjected to shots thrown by an ultrasonic shot peening apparatus (10) to become a cutting surface (5) with shot impacts, and a second step in which the cutting surface (5) with shot impacts is grinded over a chosen thickness to become a treated cutting surface (5).



21: 2020/01768. 22: 2020/03/20. 43: 2021/08/16 51: C07K; C12N

71: MONSANTO TECHNOLOGY LLC 72: BAUM, James, A., CERRUTI, Thomas, A., DART, Crystal L., ENGLISH, Leigh, H., FU, Xiaoran, GUZOV, Victor, M., HOWE, Arlene, R., MORGENSTERN, Jay, P., ROBERTS, James, K, SALVADOR, Sara, A., WANG, Jinling, FLASINSKI, Stanislaw

33: US 31: 62/064,989 32: 2014-10-16 54: NOVEL CHIMERIC INSECTICIDAL PROTEINS TOXIC OR INHIBITORY TO LEPIDOPTERAN PESTS 00: -

Nucleotide sequences are disclosed that encode novel chimeric insecticidal proteins exhibiting Lepidopteran inhibitory activity. Particular embodiments provide compositions and transformed plants, plant parts, and seeds containing the recombinant nucleic acid molecules encoding one or more of the chimeric insecticidal proteins.

21: 2020/01769. 22: 2020/03/20. 43: 2021/08/16 51: C07K; C12N 71: MONSANTO TECHNOLOGY LLC 72: BAUM, James, A., CERRUTI, Thomas, A., DART, Crystal L., ENGLISH, Leigh, H., FU, Xiaoran, GUZOV, Victor, M., HOWE, Arlene, R., MORGENSTERN, Jay, P., ROBERTS, James, K, SALVADOR, Sara, A., WANG, Jinling, FLASINSKI, Stanislaw 33: US 31: 62/064,989 32: 2014-10-16

54: NOVEL CHIMERIC INSECTICIDAL PROTEINS TOXIC OR INHIBITORY TO LEPIDOPTERAN PESTS 00: -

Nucleotide sequences are disclosed that encode novel chimeric insecticidal proteins exhibiting Lepidopteran inhibitory activity. Particular embodiments provide compositions and transformed plants, plant parts, and seeds containing the recombinant nucleic acid molecules encoding one or more of the chimeric insecticidal proteins.

21: 2020/01770. 22: 2020/03/20. 43: 2021/08/16 51: C07K; C12N 71: MONSANTO TECHNOLOGY LLC 72: BAUM, James, A., CERRUTI, Thomas, A., DART, Crystal L., ENGLISH, Leigh, H., FU, Xiaoran, GUZOV, Victor, M., HOWE, Arlene, R., MORGENSTERN, Jay, P., ROBERTS, James, K, SALVADOR, Sara, A., WANG, Jinling, FLASINSKI, Stanislaw 33: US 31: 62/064,989 32: 2014-10-16 54: NOVEL CHIMERIC INSECTICIDAL PROTEINS TOXIC OR INHIBITORY TO LEPIDOPTERAN PESTS

00: -

Nucleotide sequences are disclosed that encode novel chimeric insecticidal proteins exhibiting Lepidopteran inhibitory activity. Particular embodiments provide compositions and transformed plants, plant parts, and seeds containing the recombinant nucleic acid molecules encoding one or more of the chimeric insecticidal proteins.

21: 2020/01771. 22: 2020/03/20. 43: 2021/08/16 51: C07K; C12N

71: MONSANTO TECHNOLOGY LLC 72: BAUM, James, A., CERRUTI, Thomas, A., DART, Crystal L., ENGLISH, Leigh, H., FU, Xiaoran, GUZOV, Victor, M., HOWE, Arlene, R., MORGENSTERN, Jay, P., ROBERTS, James, K, SALVADOR, Sara, A., WANG, Jinling, FLASINSKI, Stanislaw

33: US 31: 62/064,989 32: 2014-10-16

54: NOVEL CHIMERIC INSECTICIDAL PROTEINS TOXIC OR INHIBITORY TO LEPIDOPTERAN PESTS

00: -

Nucleotide sequences are disclosed that encode novel chimeric insecticidal proteins exhibiting Lepidopteran inhibitory activity. Particular embodiments provide compositions and transformed plants, plant parts, and seeds containing the recombinant nucleic acid molecules encoding one or more of the chimeric insecticidal proteins.

21: 2020/01858. 22: 2020/03/24. 43: 2021/09/02 51: E04C; H01R

71: TAIYUAN UNIVERSITY OF TECHNOLOGY 72: DUAN, Pengfei, JIANG, Lu, DUAN, Yiyang, YANG, Chunxia, FENG, Lifang 33: CN 31: 201910245925.5 32: 2019-03-29 54: CONNECTION METHOD AND STRUCTURE OF LIGHTNING PROTECTION DOWNLEAD FOR PRECAST CONCRETE BUILDING 00: -

The present invention provides a connection method and structure of a lightning protection downlead for a precast concrete building. The present invention solves the problem that the construction of the grouting sleeve of the existing fully precast concrete structures is imperfect so that the main bars of the upper and lower precast columns cannot be electrically connected. The connection structure includes an upper precast structure column and a main bar thereof, a lower precast structure column and a main bar thereof, a metal connector, a spherical support jaw, a spring and a grouting sleeve. The main bars of the upper and lower precast structure columns are welded or bolted to the metal connector, respectively. The metal connector is pressed into the spherical support jaw to form a holding connection. The spherical support jaw is welded with the spring, thereby realizing the electrical connection of the upper and lower main bars.



- 21: 2020/01874. 22: 2020/03/24. 43: 2021/09/06 51: H02J
- 71: SONNEN GMBH

72: GEIGER, Michael, HENNEMANN, Wolfram 33: DE 31: 10 2017 124 567.7 32: 2017-10-20 54: BATTERY SYSTEM, LOCAL ELECTRICAL

GRID AND DISCONNECTOR

The invention relates to a battery system, particularly for using in a local electrical grid, comprising: at least one battery module; an output terminal which is electrically connected to the battery module and used to charge and/or discharge the battery module from and/or into the local electrical grid; a disconnector which is arranged between the battery module and at least one pole of the output terminal and is designed to break the electrical connection between the battery module and the at least one pole of the output terminal, when open; and a first signal circuit which is designed to generate the triggering of the disconnector in the event of a faulty state detected by the battery module in such a way as to interrupt the electrical connection between the battery module and the at least one pole of the output terminal. The invention also relates to a local electrical grid comprising a battery system and an inverter connected to the output terminal, and a multipolar disconnector comprising a first switch and at least one second switch and/or a third switch for

disconnecting a battery module from at least one pole of an output terminal, as well as at least one first holding coil and a second holding coil. which are designed to hold the switches (301, 302, 303) closed only when the first holding coil (31) and the second holding coil (32) are energised.



21: 2020/01974. 22: 2020/05/04. 43: 2021/07/14 51: B01D

71: TIANJIN GUODIAN JINNENG BINHAI CO GENERATION CO., LTD.

72: LU, Gang, FANG, Jiuwen, DU, Yan, ZUO, Liangjie, ZHANG, Mingkun, SHAN, Yu, BI, Jianwei, SUN, Jing

33: CN 31: 201920631183.5 32: 2019-04-30 54: SINGLE-TOWER DUAL-CYCLE FLUE GAS DESULFURIZATION SYSTEM 00: -

The present disclosure discloses a single-tower dual-cycle flue gas desulfurization system, comprising a flue tower and a desulfurization cooling system. The flue tower has a first desulfurization temperature-lowering zone and a second desulfurization temperature-lowering zone arranged sequentially from bottom to top. The desulfurization cooling system comprises a first desulfurization slurry circulation device provided at the first temperature-lowering zone and a second desulfurization slurry circulation device provided at the second temperature-lowering zone. The system further comprises a third circulation device including a first heat exchanger arranged in a first slurry cooler of the first device, a second heat exchanger arranged in a second slurry cooler of the second device, and a circulating water cooling tower for drawing circulating water from the first heat exchanger. The water in the tower is drained into the

second heat exchanger, and the water in the second heat exchanger is drained into the first heat exchanger.



- 21: 2020/02008. 22: 2020/05/04. 43: 2021/09/02 51: E04C
- 71: AVAX SA 407 CC
- 72: COETZEE, Quentin

33: ZA 31: 2019/02312 32: 2019-04-12

54: BATTEN SECURING PLATE

00: -

The invention provides a securing element for securing a batten to a top cord of a roof truss, which element has a sheet-like body, of a rigid plastics, composite or metal material, integrally formed or moulded to include a plate component with a top edge and an opposed bottom edge, a lip which extends in a first direction from the top edge and which is adapted to overlay the batten, and a slot in the plate component that is complementary in shape to a cross-sectional shape of a batten.



21: 2020/02118. 22: 2020/05/04. 43: 2021/08/03 51: A61M

71: FISH, Frank

72: BEN-ISRAEL, Karin-Ann

33: ZA 31: 2017/04891 32: 2017-09-19 54: NEBULIZER ORIENTATION APPARATUS 00: -

There is provided a nebulizer orientation apparatus (10) for orientating an aerosol or mist forming means of the nebulizer into a substantially vertical position relative to the ground level under force of gravity. Particularly, there is provided a nebulizer orientation apparatus comprising first and second straight hollow bodies (14,16) in flow communication with each other via a joint means (12), which joint means facilitating movement of the first and second straight hollow bodies relative to each other in a first plane facilitated by the joint means, and wherein the first straight hollow body (14) is weighted relative to the second straight hollow body (16) to facilitate displacement of the first body under force of gravity relative to the second body.



21: 2020/02119. 22: 2020/05/04. 43: 2021/09/02 51: A01K; E04H; G01N 71: Geobrugg AG 72: Dr. Corinna WENDELER-GÖGGELMANN

33: DE 31: 10 2017 123 817.4 32: 2017-10-12 54: WIRE NETTING SYSTEM 00: -

The invention relates to a wire netting system, in particular a safety netting system, comprising at least two intermeshing netting elements (10a-g), at least one netting element (10a-g) being produced from at least one individual wire, a wire bundle, a wire strand, a wire rope and/or any other longitudinal element having at least one wire (12a-g) that consists at least to some extent of a high-strength steel (74a-g), said wire (12a-g) being provided with at least one corrosion protection (14a-g), in particular a corrosion protection layer (16a-c; 16e-g). According to the invention, at least one segment of the wire (12a-g), in particular a segment of a wire mesh (18a-g) consisting of the wire (12a-g) and comprising the corrosion protection (14a-g), in particular the corrosion protection layer (16a-c; 16eg), has a corrosion resistance of more than 1680 hours, preferably more than 2016 hours, advantageously more than 2520 hours, more preferably more than 3024 hours and most preferably more than 3528 hours when tested in an alternating climate test.



21: 2020/02410. 22: 2020/05/04. 43: 2021/08/03 51: C12N; A61K 71: INNOVACELL BIOTECHNOLOGIE AG 72: Marco THURNER, Eva MARGREITER, Wolfgang SCHWAIGER, Faheem Muhammad ASIM, Rainer MARKSTEINER 33: EP 31: 17207417.1 32: 2017-12-14 54: METHODS FOR OBTAINING MUSCLE DERIVED CELLS 00: - The present invention relates to methods for obtaining skeletal muscle derived cells (SMDC), and the use of SMDCs in a method of preventing and/or treating neuromyopathies and/or myopathies, wherein the neuromyopathy and/or myopathy is incontinence, in particular a urinary and/or an anal or fecal incontinence.

21: 2020/02471. 22: 06/05/2020. 43: 2021/07/06 51: C07K; A61K; A61P

71: BIONTECH SE, ASTELLAS PHARMA INC. 72: SAHIN, UGUR, STADLER, CHRISTIANE, FISCHER, LEYLA, JENDRETZKI, ARNE, TÜRECI, ÖZLEM, LE GALL, FABRICE, KREUZBERG, MARIA 33: EP 31: PCT/EP2016/072688 32: 2016-09-23 54: BISPECIFIC TRIVALENT ANTIBODIES BINDING TO CLAUDIN6 OR CLAUDIN18.2 AND CD3 FOR TREATMENT OF CLAUDIN EXPRESSING CANCER DISEASES

00: -The present invention provides binding agents comprising at least three binding domains, wherein a first binding domain binds to a T cell-specific antigen and a second binding domain and a third binding domain bind to a claudin, and methods of using these binding agents or nucleic acids encoding therefor for treating cancer.

21: 2020/02472. 22: 2020/05/06. 43: 2021/07/16 51: C01B

71: YANGZHOU UNIVERSITY

72: ZHANG, WANG, JIN, XUANZHEN, PIAO, YUANZHE, DIAO, GUOWANG, KONG, YUYU, WANG, JIAMIN

33: CN 31: 201910378231.9 32: 2019-05-08 54: METHOD FOR PREPARING POROUS CARBON NANOMATERIAL BY MICROWAVE 00: -

The present invention discloses a method for preparing a porous carbon nanomaterial by a microwave. The method prepares the porous carbon nanomaterial by: using a mixture of a carbon powder and toluene with a mass ratio of 1:1 as a microwave reactant; mixing the microwave reactant with potassium citrate at a mass ratio of 1:(10-200), and then grinding; and heating under a microwave at 200-800 W. The method of the present invention is simple, efficient, and low in cost. The prepared porous carbon nanomaterial has high specific surface area and specific capacitance, and can be used as a high-performance super-capacitor material.

21: 2020/02659. 22: 11/05/2020. 43: 2021/07/06 51: G16H

71: UNIVERSITY OF PRETORIA 72: KEBALEPILE, MOSES MOGAKOLODI 33: ZA 31: 2017/07650 32: 2017-11-13 54: ASTHMA WARNING/PREVENTION SYSTEM AND DEVICE

00: -

The invention relates to an asthma

warning/prevention system 10 and device 13. The system 10 includes a monitoring module 16 which is configured to receive measurement data of at least one environmental parameter measured by at least one environmental monitoring arrangement 12. The monitoring module 16 utilises the measurement data in order to determine whether the measured environmental parameter (a) exceeds a current upper trigger level for a particular person 113 and, if so, to adjust the current upper trigger level for that person 113, and/or (b) falls below a current lower trigger level for the particular person 113 and, if so, to adjust the current lower trigger level for the person 113. The system 10 may include a body monitoring arrangement 14 which is configured to measure one or more respiratory, physiological and/or biological parameters of the particular person 113.



21: 2020/02699. 22: 2020/05/12. 43: 2021/03/12

51: H01B

71: YANGZHOU TENGFEI ELECTRIC CABLE & MATERIAL CO. LTD.

72: ZHANG, Yun, FU, Qianggang, SHI, Xiaohong, ZHANG, Yulei, WANG, Biao, QIANG, Xinfa, REN, Xuanru, ZHOU, Minyu, ZHANG, Yunfang, BI, Naimei, XU, Lulu

33: CN 31: CN201910312020.5 32: 2019-04-17 54: IDENTIFIABLE FIRE-RESISTANT WRAPPING TAPE AND PREPARATION METHOD THEREOF 00: -

The invention relates to an identifiable fire-resistant wrapping tape and a preparation method thereof. The wrapping tape structurally comprises a tape body which is provided with an anti-counterfeiting layer on the surface of one side. The anticounterfeiting layer comprises a pattern layer and a wax emulsion protection layer coated to the outer side of the pattern layer. The preparation method includes selecting a highly flame-retardant fireresistant wrapping tape; spray-coating a pattern to the surface of the highly flame-retardant fireresistant wrapping tape by use of an anilox roller to form a pattern layer; and spray-coating flameretardant wax emulsion to the surface of the pattern layer to form a wax emulsion protection layer, winding, and cutting. The invention solves the technical problem that a highly flame-retardant fireresistant wrapping tape fails to display product information at a high temperature in prior arts.



21: 2020/02875. 22: 2020/05/18. 43: 2021/07/06 51: C04B

71: WORKING ON FIRE PROPRIETARY LIMITED 72: OOSTHUIZEN, Dirk Marais, LORD, Andrew Hyde, LAMB, Stephen Bryce, NDUNA, Grabeth, THELINGOANA, Mojalefa David 33: ZA 31: 2019/03685 32: 2019-06-10 54: BINDER COMPOSITION 00: -

A binder composition adapted for use in the production of a building material including a biomass aggregate in the form of wood chips. In order to produce the building material, the wood chips and the binder composition are mixed in the presence of water. The binder composition comprises a mixture of cement, coal fly ash, lime and a hydrophobic filler agent. The composite building material provides a cement-based matrix within which the wood chips are evenly distributed and bound. In a specific example, the binder composition comprises a blend of 49.8% by weight Portland cement such as ALPINE® cement 42.5; 37% by weight class S coal fly ash; 12.4% by weight building and plaster lime; and 0.4% by weight of the co-polymer of vinyl acetate and ethylene. The binder composition comprises a pre-packaged solid dry particulate material for use on site to produce the composite building material.

21: 2020/02988. 22: 2020/05/21. 43: 2021/09/02 51: B24B

71: RUD. STARCKE GMBH & CO. KG 72: Werner UNNERSTALL, Christian WALL, Christian BURSTEIN, Stephan KAMPMEYER 33: DE 31: 10 2018 101 293.4 32: 2018-01-22 54: METHOD FOR GRINDING AND/OR POLISHING A DEFECT AND DEVICE FOR CARRYING OUT THE METHOD 00: -

A method for grinding and/or polishing a defect (1) in the surface coating of a workpiece, wherein a grinding or polishing disc held on a tool is guided with pressure over the defect (1) with orbital, rotating and/or vibrating movements, is configured such that the tool fitted with the grinding or polishing disc (7) is moved over the defect (1) automatically and in a computer-controlled manner on the basis of a stored program, wherein the grinding or polishing disc (7) is first guided along a concentrically inner grinding path (2) relative to the defect (1) and then without interruption is guided along a spiral grinding path (3) to an outer concentric grinding path (4).



21: 2020/03000. 22: 2020/05/21. 43: 2021/07/06 51: G01C; G01S; G02B 71: Safran Electronics & Defense 72: ROBERT, Patrick, MARIE, Vincent 33: FR 31: 17 01233 32: 2017-11-24 54: PROTECTION OF A MONOSTATIC OR

QUASI-MONOSTATIC LASER RANGEFINDER 00: -

An optical module (10) is fixed in front of an optical output (21) of a monostatic or quasi-monostatic laser rangefinder (20), for the purpose of transversely offsetting a primary radiation laser beam (F) emitted by the optical output. In this way, risk of damage to an optical sensor (23) of the range finder can be avoided.



21: 2020/03068. 22: 2020/05/25. 43: 2021/09/02 51: C12P; A61P 71: SUPRAPHARM CC 72: SHERALEE MCDONALD GREVES, WENDY SHARON GENN, DIMITRI JOHN TERPIZIS, COSTAS LAMBROS TERPIZIS 33: ZA 31: 2019/02407 32: 2019-04-16 54: SUPPLEMENT SET FOR ALLEVIATING MENSTRUAL IMBALANCE 00: - A set of supplements for treating or alleviating menstrual imbalance caused by contraceptive usage, a process of manufacturing same, and a blister pack containing such set of supplements. The supplement set comprising: a first pharmaceutical dosage unit for administration to a human female during each day of the menstrual phase, follicular phase and luteal phase of the menstrual cycle; and a second pharmaceutical dosage unit for administration to a human female during the ovulatory phase, wherein the invention is characterized in that the second pharmaceutical dosage unit comprises between about 300mg to 600mg of a glutamine derivative whereas the first pharmaceutical dosage unit comprises between about 30mg to 300mg of a glutamine derivative.



21: 2020/03140. 22: 27/05/2020. 43: 2021/07/16 51: B01J

71: DALIAN INSTITUTE OF CHEMICAL PHYSICS, CHINESE ACADEMY OF SCIENCES 72: NI, YOUMING, ZHU, WENLIANG, LIU, ZHONGMIN, LIU, YONG, CHEN, ZHIYANG, LIU, HONGCHAO, MA, XIANGANG, LIU, SHIPING 33: CN 31: 201711133394.8 32: 2017-11-15 54: METHOD FOR DIRECTLY PRODUCING AROMATIC HYDROCARBON FROM SYNTHESIS GAS

00: -

The invention discloses a method for preparing aromatics from syngas, which comprises: a) contacting a raw material stream containing syngas with a catalyst in a reaction zone under reaction conditions sufficient to convert at least part of the raw material to obtain a reaction effluent; b) separating the reaction effluent to obtain at least a recycle stream containing gas-phase hydrocarbons having 1 to 4 carbon atoms and unconverted syngas and a liquid stream containing hydrocarbons having 5 or more carbon atoms; c) returning the recycle stream to the reaction zone; and d) separating aromatic products from the liquid stream, wherein the catalyst comprises at least one of an inert carrier-confined highly dispersed metal oxide material, an acidic molecular sieve, and optionally graphite powder and a dispersant.



21: 2020/03315. 22: 2020/06/03. 43: 2021/06/30 51: C12N C12P C07K

71: CJ CHEILJEDANG CORPORATION 72: SON, Seung-ju, YOON, Byoung Hoon, LEE, Kwang Woo, KIM, Seon Hye, BYUN, Hyo Jeong, CHANG, Jin Sook, KIM, Hyung Joon, SHIN, Yong Uk

33: KR 31: 10-2018-0009633 32: 2018-01-25 54: MICROORGANISM OF GENUS CORYNEBACTERIUM FOR PRODUCING L-AMINO ACID AND METHOD FOR PRODUCING L-AMINO ACID BY USING SAME 00: -

The present application relates to a microorganism of the genus Corynebacterium for producing an Lamino acid and a method for producing an L-amino acid by using the microorganism.

21: 2020/03328. 22: 2020/06/03. 43: 2021/09/14 51: H04L; H04W 71: INNONET CO., LTD 72: YOO, Ho Sang, YOO, Woo Sung, SEO, Ji Hwan, PARK, Yong Dae 33: KR 31: 10-2017-0100177 32: 2017-08-08

54: BUS COMMUNICATION NETWORK WIRELESS BACKHAUL SYSTEM USING MOBILE TVWS AND OPERATING METHOD THEREOF 00: -

The present invention relates to a wireless backhaul system capable of providing a wireless backhaul for a bus communication network by using a mobile TVWS communication apparatus, and an operating method thereof. A wireless backhaul system using a TV white space (TVWS) for providing, to a bus, data communication by using a TVWS band according to the present invention comprises: a TVWS DB server for providing available TVWS channel information on the basis of location information; multiple master mobile TVWS apparatuses installed along a route of the bus; and at least one slave mobile TVWS apparatus installed on the bus. The master mobile TVWS apparatus may acquire location information of itself, may receive available TVWS channel information by providing the acquired location information to the TVWS DB server, may select a TVWS channel to be used, on the basis of the available TVWS channel information, and may perform data transmission with the slave mobile TVWS apparatus, using the selected TVWS channel. The slave mobile TVWS apparatus may provide a data service to an information communication device within the bus, and may perform data transmission with the master mobile TVWS apparatus, using the TVWS channel selected by the master mobile TVWS apparatus. The present invention provides a wireless backhaul system using TVWS communication and thus can provide a data communication service to an information communication device of a bus.


100 ... NMS server 200 ... TVWS DB server

21: 2020/03369. 22: 2020/06/05. 43: 2021/08/16 51: H01F; H01H

71: Falkensteinstraße 8, D-93059 Regensburg 72: HAMMER, Christian, SACHSENHAUSER, Andreas, DALLA VECCHIA, RICCARDO 33: DE 31: 10 2018 105 097.6 32: 2018-03-06 54: ON-LOAD TAP CHANGER AND LOCAL NETWORK TRANSFORMER HAVING AN ON-LOAD TAP CHANGER

00: -

The invention relates to an on-load tap changer (10), comprising – a first selector rod (21) and a second selector rod (25); – a load transfer switch rod (51); – a switching means (55); – a gear mechanism (19); wherein – the first selector rod (21), the second selector rod (25) and the load transfer switch rod (51) are arranged collinearly; – the gear mechanism (19) is configured - to move the selector rods (21, 25) in a first direction during a changeover from one selector contact (29A) to an adjacent selector contact (29B); - during the changeover to move the load transfer switch rod (51) in the first direction and in a second direction, which is counter to the first direction, in order to actuate the switching means (55).



21: 2020/03481. 22: 10/06/2020. 43: 2021/07/06 51: D05C 71: VANDEWIELE NV 72: LAMPAERT, VINCENT, CALLEWAERT, KOEN, MARIJSSE, FRANK, LUYCKX, LIESBETH, SHANLEY, FRANK 33: GB 31: 1800486.1 32: 2018-01-11 33: GB 31: 1720794.5 32: 2017-12-13 54: A TUFTING MACHINE AND METHOD FOR OPERATING A TUFTING MACHINE 00: -

A pattern data processing system configured to determine and compensate for any points of entanglement between different yarns. A point of entanglement is defined as a point where the yarn from one needle crosses and traps the yarn from another needle on the back face of the backing medium. The pattern data processing system is configured to calculate the additional length of back stich caused by each point of entanglement by subtracting an ideal back stich length, calculated as the path which would have been taken by the yarn had it not been entangled in another yarn, from an actual varn path, calculated as the actual length of the entangled yarn. A controller is configured to include in the amount of yarn fed by a respective varn feed mechanism for each stitch an amount equivalent to the additional length of back stitch. The invention also includes a tufting machine and method of operating the tufting machine with the pattern data processing system.



21: 2020/03482. 22: 10/06/2020. 43: 2021/07/06 51: D05C

71: VANDEWIELE NV

72: LAMPAERT, VINCENT, CALLEWAERT, KOEN, MARIJSSE, FRANK, LUYCKX, LIESBETH, SHANLEY, FRANK

33: GB 31: 1720794.5 32: 2017-12-13

54: AN INDIVIDUAL NEEDLE CONTROL TUFTING MACHINE

00: -

A tufting machine (1) and method for operating a tufting machine operating a needle selection mechanism based on pattern data by selecting a needle (10) with yarn (4) required for the pattern such that the selected needle is driven by a needle bar (11) through the backing medium (7), to form a tuft while a needle that is not required for the pattern is not selected by the needle selection mechanism. Yarn is fed via a yarn feed mechanism (2) comprising a plurality of actively driven yarn drives each driving a respective yarn to a respective needle, the yarn drives being at a location between a varn creel and the needle. The method being characterised by operating the yarn feed mechanism (2) to deliver at least 70% of the yarn required for a tuft as the needle (11) moves from top dead centre to bottom dead centre.



- 21: 2020/03589. 22: 2020/06/15. 43: 2021/06/30 51: A01G; G06Q
- 71: The Climate Corporation

72: DAIL, Holly Janine, CARROLL, Patricia Ann, GRABOW, Bethany Susan Porter, PATAKY, Jerald Keith, MALAGON, Ana

33: US 31: 15/820,317 32: 2017-11-21 54: COMPUTING RISK FROM A CROP DAMAGING FACTOR FOR A CROP ON AN AGRONOMIC FIELD 00: -

Systems and methods for determining a risk of damage to a crop on an agronomic field are described. In an embodiment, a computer system receives, for each hour of a first day, weather data identifying temperature values and humidity values associated with a geographic location. The computer system determines, for a particular hour of the first day, that a temperature value is within a first range of values and a humidity value is within a second range of values and, in response, identifies the particular hour as a risk hour. The computer system computes, for a second day, a risk value for one or more agronomic fields at the geographic location based, at least in part, on one or more identified risk hours between a day of planting a crop on the one or more agronomic fields and the second day. The computer system determines that the risk value is above a risk value threshold and, in response, determines that the crop on the one or more agronomic fields is at risk of suffering damage from a particular crop damaging factor. The computer system stores data indicating that the crop is at risk of suffering damage from the particular crop damaging factor.



21: 2020/03615. 22: 2020/06/17. 43: 2021/08/12 51: A61K

71: PSIOXUS THERAPEUTICS LIMITED 72: ALVIS, Simon, KIELTYKA, Magdalena 33: GB 31: 1801614.7 32: 2018-01-31 54: GROUP B ADENOVIRUS-CONTAINING FORMULATION

- :00

The present disclosure provides a liquid formulation suitable for a group B adenovirus, comprising: a) a group B adenovirus, such as replication competent group B adenovirus, b) 15 to 25% v/v glycerol, for example 16, 17, 18, 19, 20, 21% v/v glycerol; and c) 0.1 to 1.5% v/v ethanol, for example 0.2-1%, such as 1% v/v ethanol; and d) a buffer, and e) optionally an amino acid, wherein the pH of the formulation is in the range 8.0 to 9.6, and use of the same in treatment, particular in the treatment of cancer.

Figure 8A

Oncolytic Relative Potency Analysis (Buffering agent, 20% glycerol, 1.4% ethanol, 15 mM arginine, 0.25 mM methionine) 4°C storage



21: 2020/03732. 22: 2020/06/19. 43: 2021/08/19 51: B08B

71: QingDao Agricultural University

72: ZhaoLei

54: COMPUTER SCREEN SELF-CLEANING DEVICE

00: -

A computer screen self-cleaning device comprising a mounting plate, a lifting mechanism arranged on the side wall of one side of the mounting plate, a driving mechanism arranged on the upper surface of the mounting plate, a cleaning mechanism arranged at one end of the lifting mechanism outside the mounting plate, a spring mechanism arranged within the cleaning mechanism, a transmission mechanism arranged at one end of the cleaning mechanism, and a receiving mechanism arranged at the lower end of the mounting plate. During use, the driving motor is initiated to propel the threaded rod to rotate, and the T-shaped sliding block is propelled to reciprocate up and down through the interaction between the threaded rod and the threaded sleeve. In response to that, the T-shaped sliding block propels the fixing base to move synchronously, thus enabling the cleaning brushes to reciprocate such that the surface of the computer screen is cleaned.



21: 2020/03733. 22: 2020/06/19. 43: 2021/04/21 51: A45C

- 71: QingDao Agricultural University
- 72: ZhaoLei

54: WIRE COLLECTION APPARATUS USED IN COMPUTER CASE

00: -

A wire collection apparatus used in a computer case comprising a case wall plate, wherein a first limiting mechanism and a second limiting mechanism are mounted on the case wall plate. The fixing base is fixedly connected with the case wall plate. The cylindrical rod penetrates through the first limiting mechanism, the fixing base and the second limiting mechanism. Two lantern rings are movably sleeved on the cylindrical rod. The outer wall of each of the two lantern rings is fixedly connected with a connecting rod, and one end of each connecting rod is fixedly connected to a wire clamp. Two L-shaped inserting rods are symmetrically movably connected in the fixing base, wherein one end of each of the two L-shaped inserting rods close to the corresponding lantern ring is inserted into the lantern ring. A spring is sleeved on each L-shaped inserting rod and is located in the fixing base. A shifting piece is fixedly connected to the top end of each L-shaped inserting rod. The present disclosure not only bundles the disordered wires together, but also keeps the loose wires tightened, which avoids the

unbundled portions of the wires from twining together, thus making the wire layout within the computer case tidy and orderly.



21: 2020/03803. 22: 2020/06/23. 43: 2021/06/30 51: F28D C09K 71: THE SUNLANDS COMPANY PTY LTD

72: CATALANO, Sal, RUGGIERO, Bruno 33: AU 31: 2017904817 32: 2017-11-29

54: THERMAL BATTERY AND ELECTRICITY GENERATION SYSTEM 00: -

A thermal battery includes a heat sink material that remains solid across an operating temperature range (i.e., for all operating modes) of the battery, and a heat conductive material in direct heat transfer relationship with the solid heat sink material. The heat conductive material has a melting point below that of the heat sink material so that in use the heat conductive material is a fluid, for example molten when the heat conductive material is a metal, in the operating temperature range of the battery.



21: 2020/03901. 22: 2020/06/26. 43: 2021/06/30 51: A01N; A01P 71: UPL LTD 72: KUMAR, Ajit, SHROFF, Jaidev Rajnikant, SHROFF, Vikram Rajnikant 33: IN 31: 201731042647 32: 2017-11-28 **54: HERBICIDAL COMBINATIONS** 00: -A synergistic herbicidal combination comprising

A synergistic nerbicidal combination comprising saflufenacil, clomazone and a third herbicide, a method of controlling weeds using such combinations, a composition comprising the combination, and a method of use of such compositions.

21: 2020/03997. 22: 2020/06/30. 43: 2021/05/05 51: G02B; H01L 71: BLUESOLAR FILTERS S.L 72: CAPARROS JIMENEZ, Sebastián 33: ES 31: P201830001 32: 2018-01-03 54: METHOD FOR CONFIGURING A MULTILAYER SPECTRAL-SEPARATION FILTER FOR PHOTOVOLTAIC AND THERMAL USES, AND FILTER AND GENERATION PLANT ASSOCIATED WITH SAID METHOD 00: -

The invention relates to a method for configuring a selective multilayer filter (1) for spectral separation of solar radiation, which filter is suitable to be disposed on photovoltaic panels for use in energy generation plants, the multilayer filter (1) comprising a plurality of layers (2) of different refractive indices and thicknesses, the method being characterised in that it comprises carrying out a series of steps to configure said multilayer filter (1) such that photovoltaic and thermal efficiency is maximised. The invention also relates to a multilayer filter (1) configured using said method. The invention further relates to a plant for generating energy by harnessing solar energy, which comprises the use of at least one multilayer filter (1) configured using said method.



21: 2020/04021. 22: 2020/07/01. 43: 2021/06/30 51: C12N C12P

71: CJ CHEILJEDANG CORPORATION

72: KIM, Hyo Jin, HUH, Lan, LIM, Sang Jo, KIM, Hyun Ah, KIM, Hyung Joon, SEO, Chang II, LEE, Seung Bin, LEE, Ji Sun

33: KR 31: 10-2018-0060445 32: 2018-05-28 54: MODIFIED HOMOSERINE DEHYDROGENASE, AND METHOD FOR

PRODUCING HOMOSERINE OR HOMOSERINE-DERIVED L-AMINO ACID USING SAME

The present application pertains to a modified homoserine dehydrogenase, and a method for producing a homoserine or a homoserine-derived Lamino acid using same.

21: 2020/04025. 22: 2020/07/01. 43: 2021/06/30 51: A61K; A61P; C07D 71: Galapagos NV 72: ALVEY, Luke Jonathan, ANNOOT, Denis Maurice, BONNATERRE, Florence Marie-Emilie, BUCHER, Denis, DUTHION, Béranger, JARY, Hélène Marie, PEIXOTO, Christophe, TEMAL-LAIB, Taoues, DESROY, Nicolas, TIRERA, Amynata 33: GB 31: 1720101.3 32: 2017-12-02 54: NOVEL COMPOUNDS AND PHARMACEUTICAL COMPOSITIONS THEREOF

PHARMACEUTICAL COMPOSITIONS THEREOF FOR THE TREATMENT OF DISEASES 00: -

The present invention discloses compounds according to Formula (I): wherein R1, R2, R3a, R3b, X, Y₁, Y₂, Y₃, and Z are as defined herein. The present invention relates to compounds, methods for their production, pharmaceutical compositions comprising the same, and methods of treatment using the same, for the prophylaxis and/or treatment of inflammatory diseases, autoinflammatory diseases, autoimmune diseases, proliferative diseases, fibrotic diseases, transplantation rejection, diseases involving impairment of cartilage turnover, congenital cartilage malformation, diseases involving impairment of bone turnover, diseases associated with hypersecretion of TNFα, interferons, IL-6, IL-12 and/or IL-23, respiratory diseases, endocrine and/or metabolic diseases, cardiovascular diseases, dermatological diseases, and/or abnormal angiogenesis associated diseases by administering the compound of the invention.



21: 2020/04026. 22: 2020/07/01. 43: 2021/06/30 51: A23K

71: Agro Innovation International

72: LAZA-KNOERR, Anca L., DUMARGUE, Philippe 33: FR 31: 1762183 32: 2017-12-14 54: UREA SUPPLEMENT FOR ANIMAL

NUTRITION

00: -

The present invention relates to a mineral dietary supplement for ruminants, comprising an urea-based organic-inorganic complex and various clays for improving the performance of the animal as a result of the delayed release of urea in the rumen. The clays comprise at least one fibrous clay and a nonfibrous clay, preferably attapulgite and montmorillonite.

21: 2020/04045. 22: 2020/07/02. 43: 2021/06/30 51: A61K; A61P

71: Amgen Inc.

72: TARANTINO, Michael, BUSSEL, James, EISEN, Melissa, CARPENTER, Nancy, WANG, Xuena, MAC, Susanna 33: US 31: 62/596,020 32: 2017-12-07

54: METHOD OF TREATING IDIOPATHIC THROMBOCYTOPENIA PURPURA (ITP) WITH ROMIPLOSTIM

00: -

The present invention concerns a method of treating idiopathic thrombocytopenia purpura (ITP) in a patient having ITP, which comprises: (a) administering romiplostim weekly to the patient; (b) increasing the weekly dose until a platelet count of at least about 50 to 200 x 10⁹/L is reached; (c) decreasing the weekly dose of romiplostim if the platelet count remains \geq 200 x 10⁹/L for two consecutive weeks; (d) discontinuing romiplostim if the platelet count has remained \geq 200 x 10⁹/L for two consecutive weeks when the weekly dose is 1 µg/kg or the platelet count is \geq 400 x 10⁹/L; and (e) if a platelet count \geq 200 x 10⁹/L is reached within the first 4 to 12 weeks of treatment, maintaining a treatment-free period of at least about 24 weeks during which the patient receives no romiplostim.

21: 2020/04067. 22: 2020/07/03. 43: 2021/07/16 51: A61K; C07D; A61P 71: GLIAPHARM SA 72: LENGACHER, Sylvain, FINSTERWALD, Charles, MAGISTRETTI, Pierre 33: US 31: 62/608,599 32: 2017-12-21 54: COMPOSITIONS AND METHODS OF TREATMENT FOR NEUROLOGICAL DISORDERS COMRISING A DEMENTIA 00: -

This invention, in at least some embodiments, relates to an inventive molecule, compositions comprising same, and methods of use therof for treatment of a neurological disorder.



21: 2020/04081. 22: 03/07/2020. 43: 2021/07/14 51: G06F

71: MICROSOFT TECHNOLOGY LICENSING, LLC

72: TUTTLE, BRYAN W, CELA, CARLOS JOSE, CHAU, HO-YUEN, RAGHURAMAN, MELUR K, KULKARNI, SAURABH M, DENG, YIMIN 33: US 31: 16/235,771 32: 2018-12-28 33: US 31: 62/630,534 32: 2018-02-14 54: CLEARANCE OF BARE METAL RESOURCE TO TRUSTED STATE USABLE IN CLOUD COMPUTING 00: -

A bare metal resource includes a trusted portion and an untrusted portion. The trusted portion includes trusted hardware, an image repository, and a clearance manager. The clearance manager is executable during bootup of the bare metal resource to perform a clearance process on the untrusted portion, including deleting the BIOS in the untrusted portion and loading a trusted BIOS from the image repository on the untrusted hardware, to place the untrusted portion in a trusted state. The bare metal resource may be provisioned to a tenant of a cloud provider after being placed in the trusted state.

has a cache line for the memory address. When the cache line is present, the second cache either forwards the request to a next logging cache layer or causes the cache line to be logged if second cache is the outermost logging layer. When the cache line isn't present, the second cache causes the cache line to be logged when the cache line isn't determined by the second cache to be logged, or ed when it is determined by the second cache to be logged but it is not determined whether the first cache is aware of a current value of the cache line in the second cache. metal

Trace logging based on an upper cache layer

determining how to log an influx by a lower cache

layer. A second cache receives, from a lower layer

address. The second cache determines whether it

first cache, a logging request referencing a memory



21: 2020/04083. 22: 03/07/2020. 43: 2021/07/14 51: G06F

71: MICROSOFT TECHNOLOGY LICENSING, LLC 72: MOLA, JORDI

33: US 31: 15/904,072 32: 2018-02-23

54: TRACE RECORDING BY LOGGING INFLUXES TO A LOWER-LAYER CACHE BASED ON ENTRIES IN AN UPPER-LAYER CACHE 00: -

Trace recording based on recording an influx to a lower-level cache by reference to prior log data, based on knowledge of an upper-level cache. A computing device includes a plurality of processing units, a plurality of N-level caches, and an (N+i)-level cache that is a backing store for the N-level caches.

21: 2020/04082. 22: 03/07/2020. 43: 2021/07/14 51: G06F

71: MICROSOFT TECHNOLOGY LICENSING, LLC 72: MOLA, JORDI, GABRYJELSKI, HENRY 33: US 31: 15/947,699 32: 2018-04-06 33: US 31: 15/904,072 32: 2018-02-23 54: LOGGING CACHE INFLUXES BY REQUEST TO A HIGHER-LEVEL CACHE 00: -

Based on activity of a first processing unit, the computing device detects an influx of data to a first N-level cache. The computing device checks the (N+i)-level cache to determine if the data was already logged for a second processing unit. Based on the check, the computing device (i) causes the data to be logged for the first processing unit by reference to log data (i.e., when the data was already logged), or causes the data to be logged by value for the first processing unit (i.e., when the data was not already logged).



21: 2020/04110. 22: 2020/07/06. 43: 2021/06/30 51: A61K

71: Reven IP HoldCo LLC

72: ERVIN, James, VAN WYK, Hendrik Johanness Petrus, DENOMME, Brian David, VAN WYK, Mariette Luise, PACULT, Peter, VOLK, Michael A. 33: US 31: 62/595,909 32: 2017-12-07

54: COMPOSITIONS AND METHODS FOR THE TREATMENT OF METABOLIC CONDITIONS 00: -

The present invention relates to stable therapeutic compositions of pharmaceutical grade acids and pH buffering agents. The present invention also is directed to methods of treatment for mitochondrial disorders, metabolic conditions, diabetic conditions, and cardiovascular conditions, by administration of compositions of the present disclosure.



21: 2020/04248. 22: 2020/07/10. 43: 2021/06/30 51: C05F

71: Agro Innovation International

72: YVIN, Jean-Claude, CRUZ, Florence, PEREIRA VIEIRA DEVAULT, Mariana Carolina, VILLAR, Larissa

33: FR 31: 1761954 32: 2017-12-11

54: USE OF PHYCOBILIPROTEINS OR AN EXTRACT CONTAINING SAME AS FERTILIZER 00: -

The invention relates to the use of phycobiliproteins or an extract containing same as fertilizer, to a method for stimulating the tillering and/or root development and/or yield of a plant, and to fertilizer compositions comprising phycobiliproteins or an extract containing same and (i) an amendment and/or (ii) a fertilizer other than phycobiliproteins or an extract containing same.

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21: 2020/04278. 22: 2020/07/13. 43: 2021/06/30
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51: B01J; C01B
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71: Asahi Kasei Kabushiki Kaisha

72: AKAOGI, Takayuki

33: JP 31: 2018-078435 32: 2018-04-16

54: GIS-TYPE ZEOLITE

00: -

Provided is a GIS-type zeolite having a (101) diffraction peak where a diffraction angle 2θ =12.55° to 12.90° in a spectrum obtained by x-ray diffraction.



21: 2020/04322. 22: 2020/07/14. 43: 2021/06/30 51: B03C

71: Mitsubishi Power Environmental Solutions, Ltd. 72: TOMIMATSU, Kazutaka, KATO, Masaya, UEDA, Yasutoshi

33: JP 31: 2018-004364 32: 2018-01-15 54: ELECTROSTATIC PRECIPITATOR 00: -

The purpose of the present invention is to provide an electrostatic precipitator wherein dust collection effects can be improved by suppressing factors that reduce dust collection effects in an ion wind. An electrostatic precipitator is provided with: a plurality of dust collecting electrodes (4) formed in circular pipes and disposed at prescribed intervals in an orthogonal direction that is orthogonal to the longitudinal direction thereof; and a plurality of protrusions (5a) protruding to the dust collecting electrode (4) sides and disposed offset in parallel with the orthogonal direction. The equivalent diameters of the cross-sectional surfaces of the dust collection electrodes (4) are 30 - 80 mm. In addition, the rate of opening area for the dust collecting electrodes (4) disposed at the prescribed intervals is 10 - 70%.



21: 2020/04368. 22: 2020/07/16. 43: 2021/07/23 51: B66C; B66F

71: MANITOU ITALIA S.R.L.

72: IOTTI, MARCO

33: IT 31: 102019000012297 32: 2019-07-18 54: TELEHANDLER WITH IMPROVED STABILISERS 00: -

U: -

Described is a stabiliser (1) for a telehandler, comprising a supporting frame (11) designed to be mounted on the carriage (2) of a telehandler (1) and two telescopic arms (12, 13) fixed to the frame (11), each of which includes a first hollow segment (121, 131) directly connected to the frame (11) and a second hollow segment (122, 132) inserted in a slidable fashion in the first segment (121, 131). A pull-out linear actuator (18) of the electric type is positioned inside each arm (12, 13) and has one end fixed to the first segment (121, 131).



21: 2020/04374. 22: 2020/07/16. 43: 2021/06/30 51: A61K; A61P; C07D

71: Betta Pharmaceuticals Co., Ltd.

72: XU, Yan, XU, Xiaofeng, WANG, Jiabing, DING, Lieming

33: PCT/CN 31: 2017/117451 32: 2017-12-20 54: COMPOUND FUNCTIONING AS BROMODOMAIN PROTEIN INHIBITOR, AND COMPOSITION

00: -

A bromodomain inhibitor having the structure of formula (I). Also provided in the present invention are a composition and a formulation containing such a compound, and a method of using and preparing the compound.



 (\mathbf{I})

21: 2020/04523. 22: 2020/07/22. 43: 2021/06/23 51: F42B; F42D 71: NORTJE, Frank Wilberforce 72: NORTJE, Frank Wilberforce 33: ZA 31: 2019/04902 32: 2019-07-26 **54: MINE PLUG** 00: -

A mine stemming plug for stemming a blast hole in a mining face, the mine stemming plug comprising: a conical body for positioning adjacent sidewalls of the drilled blasting hole, said body defining a central axis with a longitudinal extent in a hollow interior between a wider first portion and a narrower second portion; and two pathways disposed opposite each other within said first portion on either side of said central axis for, in use, snugly locating a shock tube line so as to avoid contact thereof with the ground and to hold a booster charge and detonator suspended above the bottom of the blast hole.



21: 2020/04530. 22: 2020/07/22. 43: 2021/07/16 51: A61K A61P

71: DONG-A ST CO., LTD., KM TRANSDERM LTD. 72: JANG, Sun-Woo, SHIN, Chang-Yell, KIM, Jeong-Soo, KIM, Hae-Sun, CHA, Kwang-Ho, KIM, Hyun-Jung, GOTO, Masaoki

33: KR 31: 10-2017-0180647 32: 2017-12-27 54: TRANSDERMAL ABSORPTION AGENT COMPRISING DONEPEZIL FOR TREATMENT OF DEMENTIA

00: -

The present invention relates to a transdermal absorption agent comprising donepezil for treatment of dementia and, more particularly, to a transdermal absorption agent for treatment of dementia, the agent comprising: (a) donepezil as an effective ingredient; (b) propylene glycol monocaprylate as a solubilizer; and (c) a styrene-isoprene-styrene block copolymer as an adhesive base material. The transdermal absorption agent for treatment of dementia according to the present invention has weak skin irritation and excellent skin permeability simultaneously.



21: 2020/04533. 22: 2020/07/22. 43: 2021/07/23 51: A61Q A61K

71: L'OREAL

72: CHEN, Rebecca, BERNARD, Anne-Laure, Suzanne, AGACH, Mickael, Ange, HERCOUET, Leila, Safia, Camille, HUGUET, Etienne 33: US 31: 15/855,108 32: 2017-12-27 54: SKIN-BRIGHTENING COMPOSITIONS AND METHODS

00: -

A cosmetic composition for brightening skin and a method for brightening skin using the cosmetic composition are provided. The cosmetic composition has a pH<7, and includes an oxidizing agent, in some embodiments comprising hydrogen peroxide, and at least one fatty compound present from about at least 30% by weight, based upon the total weight of the composition. The method for brightening skin includes applying to the skin a composition provided as a single-part system, the system including the oxidizing agent and a fatty compound component.

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21: 2020/04678. 22: 2020/07/29. 43: 2021/06/29
51: A61K
71: NUBIYOTA LLC
72: ALLEN-VERCOE, Emma
33: US 31: 62/683,850 32: 2018-06-12
33: US 31: 62/614,151 32: 2018-01-05
54: COMPOSITIONS COMPRISING CO-
SELECTED MICROBIOTA AND METHODS FOR
USE THEREOF
00: -
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Anhydrous compositions comprising a co-selected microbiota and methods for using same to treat disorders associated with dysbiosis (an imbalance of the microbial community inhabiting a subject or inhabiting a particular tissue in a subject) are described herein. In particular, anhydrous compositions comprising a co-selected microbiota and methods for treating gastrointestinal disorders associated with dysbiosis are envisioned. The use of such anhydrous compositions comprising a coselected microbiota for treating disorders associated with dysbiosis (e.g., gastrointestinal disorders associated with dysbiosis) and the use of such anhydrous compositions comprising a co-selected microbiota in the preparation of a medicament for treating disorders associated with dysbiosis (e.g., gastrointestinal disorders associated with dysbiosis) are also embodied herein.



- 21: 2020/04686. 22: 2020/07/29. 43: 2021/06/29
- 51: A01C

71: Syngenta Crop Protection AG

72: OBRIST, Lukas

33: CH 31: 00212/18 32: 2018-02-21

54: PRECISION SOWING METHOD AND DEVICE 00: -

In a sowing method and a corresponding sowing device for discharging granular seed onto an underlying surface for seed, seeds (K) which are present in a reservoir container (10) are removed from the reservoir container and separated by means of a separating device (20) and successively allowed to fall onto the underlying surface (B) for seed. After the separated seeds (K) leave the separating device (20) seed dressing is applied to them by means of an application device (30) during their falling movement onto the underlying surface (B) for seed.



21: 2020/04692. 22: 2020/07/29. 43: 2021/06/30 51: C07D

71: Incyte Corporation

72: WANG, Dengjin, LIU, Pingli, WU, Yongzhong, ZHOU, Jiacheng

33: US 31: 62/623,664 32: 2018-01-30

54: PROCESSES FOR PREPARING (1 -(3-FLUORO-2-(TRIFLUOROMETHYL)ISONICOTINYL)PIPERIDIN

(TRIFLUOROMETHYL)ISONICOTINYL)PIPERIDIN E-4-ONE)

00: -

This invention relates to processes and intermediates for making {1- {I-[3-fluoro-2-(trifluoromethyl)isonicotinoyl]piperidin-4-yl}-3-[4-(7Hpyrrolo[2,3-d]pyrimidin-4-yl)-IH-pyrazol-I-yl]azetidin-3-yl}acetonitrile, useful in the treatment of diseases related to the activity of Janus kinases (JAK) including inflammatory disorders, autoimmune disorders, cancer, and other diseases. The invention is specifically directed to processes for making the intermediate (I-(3-fluoro-2-

(trifluoromethyl)isonicotinyl)piperidine-4-one) from I-(3-fluoro-2- (trifluoromethyl)isonicotinoyl chloride and 4-hydroxypiperidine or 4- piperidone as well as to the intermediate I-(3-fluoro-2-

(trifluoromethyl)isonicotinoyl chloride.

21: 2020/04700. 22: 2020/07/29. 43: 2021/06/29 51: A01N; A61K; A61P; C07D 71: Syngenta Participations AG 72: HONE, John, JONES, Ian Kevin 33: EP(CH) 31: 18156463.4 32: 2018-02-13

54: NOVEL CRYSTALLINE FORMS

00: -

The invention relates to crystalline forms of N-[2-(2,4-dichlorophenyl)cyclobutyl]-2-

(trifluoromethyl)pyridine-3-carboxamide of formula (I), compositions comprising said crystalline forms and methods of their use as nematicides or fungicides.



21: 2020/04714. 22: 2020/07/30. 43: 2021/07/29 51: D04H; D01D 71: REIFENHÄUSER GMBH & CO. KG MASCHINENFABRIK 72: WAGNER, TOBIAS, SOMMER, SEBASTIAN, BOHL, PATRICK, RÖSNER, ANDREAS, GEUS, HANS-GEORG 33: EP 31: 19 189 208.2 32: 2019-07-30 54: APPARATUS AND METHOD OF MAKING A NONWOVEN FABRIC FROM FIBERS 00: -

An apparatus for making a nonwoven fabric from fibers and having at least one spinneret for spinning the fibers and an air-permeable deposit conveyor for deposition of the fibers as a nonwoven web. At least one extractor is provided that can draw air or process air through the deposit conveyor in the deposit area of the fibers in the main extraction area. The main extraction area below the deposit conveyor in an inlet area is delimited of the deposit conveyor and in an outlet area of the deposit conveyor each being delimited by at least one respective suction partition. The conveyor-side end of at least one suction partition or a part of the relevant suction partition at the shortest vertical spacing from the deposit conveyor has a vertical spacing A to the deposit conveyor between 10 mm and 250 mm.



21: 2020/04715. 22: 2020/07/30. 43: 2021/07/29 51: D04H; D01D

71: REIFENHÄUSER GMBH & CO. KG MASCHINENFABRIK

72: WAGNER, TOBIAS, SOMMER, SEBASTIAN, BOHL, PATRICK, RÖSNER, ANDREAS, GEUS, HANS-GEORG

33: EP 31: 19 189 215.7 32: 2019-07-30 54: METHOD AND APPARATUS FOR MAKING A NONWOVEN FROM CRIMPED FILAMENTS 00: -

An apparatus for making a nonwoven fabric from crimped fibers has at least one spinneret for spinning the fibers and an air-permeable deposit conveyor for deposition of the fibers in a deposit region to form a nonwoven web. Downstream in the travel direction of the nonwoven web there is at least one first preconsolidater. A suction device draws air or process air through the deposit conveyor or through the mesh belt in the deposit region of the fibers and/or at the first preconsolidater. Downstream in the travel direction of the first preconsolidater there is at least one second preconsolidater web for preconsolidating the nonwoven web, and air or process air is sucked through the mesh belt. At least one suction gap portion is provided in the region between the first preconsolidater and the second preconsolidater and there is no suction of air or process air in the suction gap portion through the deposit conveyor or through the mesh belt and/or the suction there is less or

significantly less suction of air or process air than in the deposit region of the fibers and/or at the first preconsolidater, and/or that there is less or significantly less suction of air or process air than at the second preconsolidater.



21: 2020/04784. 22: 2020/07/31. 43: 2021/08/13 51: C07K 71: VIVORYON THERAPEUTICS AG 72: RAHFELD, Jens-Ulrich, GILLIES, Stephen, HETTMANN, Thore, SCHILLING, Stephan, KLEINSCHMIDT, Martin 33: EP 31: 18154427.1 32: 2018-01-31 54: HUMANIZED AND DE-IMMUNIZED ANTIBODIES 00: -

The invention relates to humanized and deimmunized antibodies that bind to an epitope at the N-terminus of pyroglutamated amyloid beta (Aß N3pE) peptide and to preventive and therapeutic treatment of diseases and conditions that are related to accumulation and deposition of amyloid peptides, such as amyloidosis, a group of disorders and abnormalities associated with pyroglutamated amyloid peptide, like Alzheimer's disease, Down's syndrome, cerebral amyloid angiopathy and other related aspects. More specifically, it pertains to the use of monoclonal antibodies of the invention to bind pyroglutamated amyloid beta peptide in plasma, brain, and cerebrospinal fluid to prevent accumulation or to reverse deposition of Aß N3pE within the brain and in various tissues in the periphery, and to alleviate amyloidosis. The present invention further pertains to diagnostic assays for the diagnosis of amyloidosis using the antibodies of the invention.

21: 2020/04830. 22: 2020/08/04. 43: 2021/07/16

51: E21B 71: FLEXIDRILL LIMITED 72: SCHICKER. Owen 33: NZ 31: 739998 32: 2018-02-16 **54: PIVOT COUPLING** 00: -

The present invention relates to a wireline retrieval head assembly and downhole tool, the wireline retrieval head assembly for coupling to the downhole tool for installation in and retrieval from downhole in a mineral industry field of use, wherein a first of the wireline retrieval head assembly and downhole tool has a retention member that has or is configured to receive a pivot member and a second of the wireline retrieval head assembly and downhole tool has a complementary link with an opening for receiving the pivot member, such that the link can be coupled to the retention member to create a pivot coupling to allow for articulation between the wireline retrieval head assembly and the downhole tool during installation and retrieval of the downhole tool, and the link can be removed from the retention member to remove the downhole tool from the wireline retrieval head assembly.



21: 2020/04853. 22: 2020/08/05. 43: 2021/07/16 51: A61K; A61P 71: AIMST UNIVERSITY

- 72: PRABHAKARAN, Guruswamy,

RAVICHANDRAN, Manickam, SINNIAH, Kurunathan A/L, CHAN, Yean Yean

33: MY 31: PI 2018700106 32: 2018-01-09 54: A MONOVALENT VACCINE FORMULATION AND A METHOD FOR PREPARATION THEREOF 00: -

The present invention discloses a vaccine formulation in accordance with an illustrative embodiment. The formulation including a live attenuated cholera vaccine strain VCUSM14P; a vaccine medium having starch, cellulose, dextrose, and yeast extract; and a phosphate buffer saline.



- 21: 2020/04855, 22: 2020/08/05, 43: 2021/06/30
- 51: A01H; C12N

71: Institute of Genetics and Developmental Biology Chinese Academy of Sciences

72: FU, Xiangdong, LI, Shan, WU, Kun, TIAN, Yonghang, LIU, Qian

33: PCT/CN 31: 2018/076831 32: 2018-02-14 54: METHODS OF INCREASING NUTRIENT USE **EFFICIENCY**

00: -

The invention relates to methods for increasing nitrogen uptake, nitrogen assimilation, nitrogen use efficiency as well as yield in a plant, without affecting plant height, the method comprising increasing the expression or levels of a growth regulatory factor (GRF). Also described are genetically altered plants characterised by the above phenotype as well as methods of producing such plants.



21: 2020/05020. 22: 2020/08/13. 43: 2021/07/16 51: B61G

71: CRRC Zhuzhou Locomotive Co., Ltd.
72: CAO, Yuan, MIN, Yangchun, JIN, Xihong, CHEN, Shangqiang, Ll, Mingming
33: CN 31: 201811003583.8 32: 2018-08-30
33: CN 31: 201811004457.4 32: 2018-08-30
54: RAIL VEHICLE AND COUPLING BOX
THEREOF

00: -

A coupling box of a rail vehicle, comprising a fixed portion (2) fixedly mounted on a vehicle body (1) and a movable portion (3) connecting to a coupler and draft gear; the movable portion (3) is connected to an inner end of the fixed portion (2) by means of a constant-force connecting member, the constantforce connecting member is broken when the coupler and draft gear pushes the movable portion (3) to move inwardly at the time of a collision, so that the movable portion (3) and the fixed portion (2) are able to be separated from each other.



21: 2020/05046. 22: 2020/08/14. 43: 2021/07/16 51: A61K; A61Q

71: L'OREAL

72: PAN, Zhi, BERNARD, Anne-Laure Suzanne, DENG, Yang

33: US 31: 15/939,422 32: 2018-03-29 54: METHODS FOR BOOSTING UVA PHOTO-PROTECTION USING ANTIOXIDANTS 00: -

Methods for providing broad spectrum photo protection to skin using antioxidants that provide UVA protection to skin are described. The methods include topically applying a cosmetic composition comprising: (a) at least one antioxidant having an Oxygen Radical Absorbance Capacity (ORAC) of at least 10,000 µmol TE/g and a Hydroxyl Radical Absorbance Capacity (HORAC) of at least 2,600 µmol GAE/g; (b) at least one organic UV filter; and (c) a cosmetically acceptable carrier; wherein the cosmetic composition provides an increase in UVAPPD PF of at least 30 % relative to an otherwise identical cosmetic composition without the antioxidant(s) of (a). The disclosure also relates to the cosmetic compositions useful in the described methods.

21: 2020/05088. 22: 2020/08/17. 43: 2021/07/16

51: B63B; F03D

- 71: Freia Offshore AB
- 72: HUMMEL, Niklas, RAHM, Magnus, DYACHYK, Eduard
- 33: SE 31: 1850064-5 32: 2018-01-19

54: FLOATING WIND POWER PLATFORM

00: -

A floating wind power platform (1) for offshore power production, comprising, a floating unit (2), wherein the floating unit comprises a first, a second and a third interconnected semisubmersible column (3a, 3b, 3c) each having a longitudinal column central axis (3a', 3b', 3c') and each being arranged in a respective corner of the floating unit (2), a first and second wind turbine (4a, 4b), arranged to the first and second semisubmersible columns (3a, 3b), respectively, via a first and second tower (5a, 5b) respectively, wherein the first and second towers (5a, 5b) have a first and second longitudinal tower central axis (5a', 5b'), respectively, whereinthe first and second semisubmersible columns (3a, 3b) are arranged in the floating unit (2) with a first and second angle (α_1, α_2) respectively, with respect to a referencedirection (z), and directed away from each other, wherein the first and second longitudinal tower central axes (5a', 5b') are parallel to the first and second longitudinal column central axes 3a', 3b'), respectively.



21: 2020/05101. 22: 2020/08/18. 43: 2021/08/03 51: B21B

71: COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES, ARCELORMITTAL

72: MAGNE, Sylvain, LEGRAND, Nicolas 33: FR 31: 1851553 32: 2018-02-22 54: FLATNESS ROLLER, SYSTEM FOR MEASURING FLATNESS AND LINE FOR ASSOCIATED ROLLING OPERATIONS 00: -

Said flatness roller (18) includes a body (20) comprising at least one cavity (28) opening onto an outer surface (24) of the body (20) through a plurality of slots (30), two successive slots (30) defining a lamella (32) between them, each lamella (32) being connected to the body (20) by two connection portions, the flatness roller (18) also including at

least one optical fibre (54) comprising at least one strain sensor (22) having a measurement axis, each strain sensor (22) being housed in a cavity (28) and attached at a connection portion of a lamella (32), the measurement axis forming an angle less than or equal to 20° with a plane orthogonal to the axis of revolution (X-X) of the body (20), each strain sensor (22) being configured to send an optical response wave representative of a strain of the strain sensor (22) according to the measurement axis thereof.



- 21: 2020/05176. 22: 2020/08/20. 43: 2021/07/16 51: C25F C09G
- 71: DRYLYTE, S.L.
- 72: SARSANEDAS MILLET, Pau

33: ES 31: P201830074 32: 2018-01-26 54: USE OF H2SO4 AS ELECTROLYTE IN PROCESSES FOR SMOOTHING AND POLISHING METALS BY ION TRANSPORT VIA FREE SOLIDS 00: -

The invention relates to the use of H2SO4 as electrolyte in processes for smoothing and polishing metals by ion transport via free solids, specifically metal parts, for example in jewellery, based on ion transport with electrically conductive free solids in a gaseous environment, said solids consisting of spherical particles with porosity and affinity for retaining the electrolyte so that they have appreciable electric conductivity, wherein said use is an aqueous solution of H2SO4 having variable concentration depending on the metal or alloy of the part to be polished and wherein the free solids are preferably macroporous polymeric spheres exchanging ions of sulphonated styrenedivinylbenzene copolymer. 21: 2020/05180. 22: 2020/08/20. 43: 2021/07/16 51: F42B 71: RWM Schweiz AG 72: PFAFF, Andreas

33: DE 31: 10 2018 104 333.3 32: 2018-02-26 54: PROJECTILE HAVING A PYROTECHNIC EXPLOSIVE CHARGE 00: -

The invention relates to a projectile (1, 8, 9) having at least one payload (5) or explosive charge in the projectile body (2, 7, 10), preferably in the medium caliber range, the payload (5) being integrated into the projectile body (2, 7, 10) in the form of a pyrotechnic charge. The payload (5) can preferably be enclosed and sealed by a core (6, 14) which preferably consists of metal or plastic. In an alternative embodiment, the pyrotechnic payload (5) is disposed behind a penetrator (11) in the projectile body (10), the payload (5) thus being located between the penetrator (11) and the projectile body (10).



21: 2020/05186. 22: 2020/08/20. 43: 2021/07/16 51: F41A; F41F

71: Rheinmetall Waffe Munition GmbH

72: GUTH, Sven

33: DE 31: 10 2018 113 916.0 32: 2018-06-11 54: MORTAR WEAPON

00: -

The invention relates to a combination mortar weapon (1) with a base (4) and mortar barrel (12). A frame (7) with a receiving area (8) for receiving an additional base (10) is attached to the base (4). The base (4) belongs to a standard mortar (2) and the additional base (10) belongs to a commando mortar

(3). The mortar barrel (12) is secured to the additional base (10) of the commando mortar (3). The mortar barrel (12) is used by the standard mortar (2) and by the commando mortar (3). The connection between the base (4) of the standard mortar (2) and the base (10) of the commando motor (3) is produced at least by a rapid-action closure (11). The frame (7) comprises an arm (13), to which a monopod (14) is attached as the support device and for the purpose of elevating the mortar barrel (12). The frame (7) is designed to be rotatable relative to the base (4), whereby the mortar weapon (1) can be aligned in the azimuth direction in the form of a standard mortar (2). The monopod (14) can be secured to the frame (7) of the base (4) of the standard mortar (2) via a lower rapid-action closure (26) and to the mortar barrel (12) via an upper rapid-action closure (27). If the mortar weapon (1) is used as a commando mortar (3), the base (10) of the commando mortar (3) is released from the base (4) of the standard mortar (2). The connection (26) and/or the connection (27) can be released such that the monopod (14) remains on the base (4) or on the mortar barrel (12) as desired.



21: 2020/05187. 22: 2020/08/20. 43: 2021/07/16 51: H03K 71: General Equipment and Manufacturing Company, Inc., d/b/a TopWorx, Inc. 72: SIMMONS, Michael 33: US 31: 15/896,888 32: 2018-02-14 54: TARGET MAGNET MECHANISM FOR PROXIMITY SWITCH 00: -

A target magnet mechanism for a proximity switch. The target magnet mechanism includes a plurality of magnets disposed in an alternating magnetic pole configuration forming a narrowed, polarity reversing magnetic field. A center magnet has a magnetic polarity opposite the magnetic polarity of a sensing magnet of the proximity switch. A flanking magnet includes a magnetic polarity opposite the magnetic polarity of the center magnet and the same as the sensing magnet. So configured, the plurality of magnets trigger the proximity switch to an activated state by pulling on a magnetic field of the proximity switch via the opposed polarity of the center magnet and the sensing magnet. In addition, the plurality of magnets release the proximity switch back to an unactivated state by pushing on the magnetic field of the proximity switch via the same polarity of the flanking magnet and the sensing magnet.



21: 2020/05209. 22: 2020/08/21. 43: 2021/06/28 51: H02K

71: SMIT, Jacques Henri

72: SMIT, Jacques Henri

33: ZA 31: 2019/05565 32: 2019-08-23

54: MECHANICAL PERMANENT MAGNET COUPLING TORQUE ADJUSTMENT METHOD AND APPARATUS

00: -

A method of adjusting the volume of magnetic field and consequent torque transmission capability of a mechanical permanent magnet coupling while same is in an assembled- or installed configuration without having to dismantle the coupling comprising the steps of: providing at least one magnet having quick release means for allowing quick release of the magnet from its position in proximity to a conductor of, and air gap formed by, the coupling; unfastening the quick release means to remove the at least one magnet from its position in proximity to the air gap; and replacing the at least one magnet with a spacer. The invention extends to apparatus used in the claimed method.



21: 2020/05307. 22: 2020/08/26. 43: 2021/07/01 51: A01B; A01C; A01D 71: Northwest A&F University, Shandong Agricultural University 72: WANG, Dong, WANG, Xiaoyi, SHANG, Yunqiu, WANG, Sen, HOU, Zhenwei 33: CN 31: 201911239022.2 32: 2019-12-06 54: INTEGRATED CULTIVATION METHOD OF WATER AND FERTILIZER FOR WINTER WHEAT-SUMMER MAIZE WITH SCARIFYING, RIDGING AND FILM-MULCHING MICRO-IRRIGATION 00: -The invention discloses an integrated cultivation

method of water and fertilizer for winter wheatsummer maize with scarifying, ridging and filmmulching micro-irrigation, which comprises the following steps: in the wheat season, water-saving

tillage operation is carried out on the soil before winter wheat sowing, water-saving sowing operation is carried out in turn, water and fertilizer management is carried out during winter wheat growing period, straw is crushed and returned to the field after winter wheat harvest; in the maize season, one row of maize is sown on each side of each ridge, and the fertilizer is applied simultaneously. The amount of fertilizer applied was determined according to the soil texture, the main nutrient content in the tillage layer and the target yield of maize; the maize season water management adopts the method of supplementary irrigation on demand; the straw was crushed and returned to the field after maize harvest.



21: 2020/05311. 22: 2020/08/26. 43: 2021/07/16 51: A61K; A61P

71: F. Hoffmann-La Roche AG

72: POESCHINGER, Thomas, RIES, Carola, SHEN, Hong, YUN, Hongying, HOVES, Sabine, HAGE, Carina

33: PCT/CN 31: 2018/077501 32: 2018-02-28 54: 7-SUBSTITUTED SULFONIMIDOYLPURINONE COMPOUNDS AND DERIVATIVES FOR THE TREATMENT AND PROPHYLAXIS OF LIVER CANCER

00: -

The present invention relates to compounds of formula (I), wherein R^1 , R^2 and R^3 are as described herein, and their prodrugs or pharmaceutically acceptable salt, enantiomer or diastereomer thereof, for (use in) the treatment and/or prophylaxis of liver cancer.



21: 2020/05315. 22: 2020/08/26. 43: 2021/07/16 51: C12N

71: CJ CHEILJEDANG CORPORATION 72: BAE, Jee Yeon, SEO, Chang II, YOO, Inhwa, YOO, Hye Ryun, KIM, So Young, SHIN, Yong Uk 33: KR 31: 10-2018-0032253 32: 2018-03-20 54: NOVEL PROMOTER AND USE THEREOF 00: -

The present application relates to a novel promoter and a method for producing L-amino acid using same.



21: 2020/05342. 22: 2020/08/27. 43: 2021/07/22 51: E05B

01: E05B

71: ABUS AUGUST BREMICKER SÖHNE KG 72: HOMMEL, MARTIN, DIESING, MICHAEL,

THOMAS, MANUEL

33: DE 31: 10 2019 123 897.8 32: 2019-09-05

54: RING HOOP PADLOCK AND ASSEMBLY METHOD

00: -

A ring hoop padlock comprises a ring hoop rotatable about an axis of rotation; a lock cylinder that has a cylinder housing and a rotatable cylinder core; an entrainer coupled to the cylinder core for driving the ring hoop; a housing that has a front housing part and a rear housing part; and an insertion part in which the lock cylinder is held, with the insertion part being integrally formed in one piece.



21: 2020/05346. 22: 2020/08/27. 43: 2021/08/24 51: B65G; B66C; B66F 71: AMOVA GMBH

72: Karl Robert HOFMANN

33: DE 31: 10 2018 205 933.0 32: 2018-04-18 54: TELESCOPIC HOLDER FOR MOVING CONTAINERS IN HIGH-BAY WAREHOUSES 00: -

The invention relates to a telescopic holder (100) for holding and moving a container (4, 34) in a high-bay warehouse (1), preferably a transshipment facility of a seaport or inland port, having at least one displaceable telescopic arm (120), on which a holder (130) for holding the container (4, 34) is attached by means of a mount (140), wherein the mount (140) supports the holder (130) in a moveable manner along at least one direction.

21: 2020/05358. 22: 2020/08/27. 43: 2021/06/30 51: A01K

- 71: Zoetis Services LLC
- 72: SUH, William Dongwook, WILLIAMS,

Christopher John, SCHNUPPER, Michael Glenn, CLARKE, James Dennis Jr.

33: US 31: 62/647,976 32: 2018-03-26 54: EGG TRANSFER MODULE HAVING FREE-MOVING EJECTOR, AND ASSOCIATED SYSTEMS AND METHODS 00: -

An egg transfer module (500) is provided. Such a device includes an egg securing device (600) configured to grasp an egg. A free- moving ejector (300) is associated with the egg securing device and configured to freely move in relation thereto. An abutment (400) is provided in spaced relationship to the egg securing device. The free- moving ejector is configured to interact with the abutment to cause movement of the free-moving ejector with respect to the egg securing device, thereby displacing the egg from the egg securing device. Associated systems and methods are also provided.



- 21: 2020/05370. 22: 2020/08/28. 43: 2021/06/30
- 51: C10G; C10L
- 71: SICPA HOLDING SA
- 72: ZÜHLKE, Martin, RIEBE, Daniel, BEITZ, Toralf, TILLER, Thomas, LOPEZ GEJO, Juan, LASKAY, Ünige

33: EP(CH) 31: 19213154.8 32: 2019-12-03 54: COMPOUNDS FOR CHEMICALLY MARKING A PETROLEUM HYDROCARBON

00: -

The present invention relates to a method of marking a petroleum hydrocarbon by adding to and mixing with said petroleum hydrocarbon a chemical marker of general formula (I)



wherein the residues $R^1 - R^{10}$ are independently of each other selected from the group consisting of hydrogen and C₁-C₄-alkyl; the residue -L- represents $-CR^{b}$ -, wherein R^{a} and R^{b} are independently of each other selected from the group consisting of hydrogen and methyl; and n is an integer comprised between 2 and 6. The presence and concentration of the chemical marker of general formula (I) in the marked petroleum hydrocarbon can be advantageously determined by laser ionization coupled with mass spectrometry or by lased ionization coupled with market in the market of the market of the chemical market is a set of the chemical set of the chemical market of general formula (I) in the market petroleum hydrocarbon can be advantageously determined by laser ionization coupled with mark the market of the chemical market is a set of the chemical market of the chemical market is a set of the chemical market of the chemical market is a set of the chemical market of the chemical ma



21: 2020/05378. 22: 2020/08/28. 43: 2021/08/03 51: B01J; C07C

71: OMV DOWNSTREAM GMBH.

72: SCHÖFFL, Paul

33: AT 31: A 50173/2018 32: 2018-02-28 54: METHOD AND DEVICE FOR THE CATALYTIC

CONVERSION OF A SUBSTANCE MIXTURE

The invention relates to a method, device, catalyst and to a method for producing a catalyst for the catalytic conversion of a substance mixture containing glycerol to propanol in a fixed-bed reactor (2), wherein substrates of the catalyst have inorganic materials and/or metal oxides, characterized in that the substrates have a pore diameter at the surface of between 10 and 25 angstroms, preferably between 12 and 20 angstroms, particularly preferably 15 angstroms.



21: 2020/05380. 22: 2020/08/28. 43: 2021/06/30 51: A61K 71: SOPHARMA AD

72: METODIEV, Danail, Georgiev, KLISAROVA, Maria, Nedkova, APOSTOLOVA, Petya, Mitkova, ZAEKOVA, Galina, Nikolova, STOYANOV, Nikolay, Kirilov

33: BG 31: 112671 32: 2018-01-29

54: METHOD FOR ISOLATION OF CYTISINE 00: -

The invention concerns a method for isolation of cytisine from plant material. The method according to the invention, consists in extraction of the plant raw material by lower alcohol, acidified with mineral acid to pH within a range 1,5-3,5. The combined alcohol-aqueous extracts are concentrated under vacuum distillation till the alcohol is eliminated and after filtration they are extracted with chloroform, methylene chloride, butyl acetate or normal butanol in a ratio of 1:1. The purified from ballast substances acid aqueous concentrate is alkalized to pH 9-12 with alkaline hydroxide or ammonium hydroxide and the resulting alkaline aqueous concentrate is extracted at least twice with chloroform, methylene chloride, butyl acetate or normal butanol in a ratio of concentrate : extractant of 1:5 to 1:10. The combined organic extracts are evaporated to dryness, then acetone or ethyl acetate are added to obtain a suspension which is allowed to crystallize

comletely at 5 - 10C, then it is filtered and dried. The isolated product is with a high purity and yield.

21: 2020/05506. 22: 2020/09/04. 43: 2021/07/07 51: B65D; E05B 71: ABUS AUGUST BREMICKER SÖHNE KG

72: RIEPE, BETTINA, WEIß, TOBIAS 33: DE 31: 102019123959.1 32: 2019-09-06 54: LOCKOUT BOX

00: -

A lockout box for locking in objects, including keys, comprising a container having a reception space for the objects that is open to the front; and a front-side flap that is pivotably attached to the container and that is adjustable between closed and open positions, for closing and opening the reception space. The container has a plurality of securing openings for attaching locking elements, in particular padlocks, in order to fix the front-side flap to the container in the closed position. The front-side flap has a front plate that is at least regionally transparent. In the open position, an information carrier such as a sheet of paper or a permit to work, can be inserted behind the front plate into the frontside flap or can be attached behind the front plate to the front-side flap, and wherein a removal of the information carrier is prevented in the closed position.

> Fig. 1 Fi

21: 2020/05512. 22: 2020/09/04. 43: 2021/07/07 51: G06Q 71: Belavadi Nagarajaswamy Ramesh 72: Belavadi Nagarajaswamy Ramesh

33: IN 31: 201841010702 32: 2018-03-23 54: SYSTEM AND METHOD FOR COMPOSITE-KEY BASED BLOCKCHAIN DEVICE CONTROL 00: -

System and method for composite-key based blockchain device control, where the composite- key is created from control codes and a unique identification key. The control codes are used to control the blockchain device. The system uses the controlling system that can create controlling data. The system uses controlling data to control blockchain devices. The controlling data is used in conjunction with data in the blockchain. The system has methods for integrating with smart contracts to make execution of blockchain device depend on the smart contract. The system can be used for controlling financial activity, movement activity, asset activity, device activity, game activity. The system has methods for coupling controlling system with blockchain devices. The system has mechanisms to make blockchain device execution depend on the signature.



21: 2020/05516. 22: 2020/09/04. 43: 2021/07/07 51: B05B

71: Ingeagro S.A.

72: YĂKAŠOVIC SAAVEDRA, Tomás Iván 33: CL 31: 0341-2018 32: 2018-02-06 54: LOW-WETTING ELECTROSTATIC APPLICATION DEVICE AND METHOD

00: -

The invention relates to an electrostatic device that comprises: a system for regulating an air flow that comprises a pressure regulator (12) and an airflow regulator (13); a system for regulating a flow of liquid (35) that comprises a set of restrictors (26); an electrostatic system that comprises an electrostatic

emission antenna (7) and a hood (9) for isolating the electrostatic emission antenna; an air-liquid nozzle (6) which is separated from the electrostatic emission antenna (7); a tank (5); and a positivedisplacement pump (4). The invention also relates to a low-wetting electrostatic application method.



- 21: 2020/05530. 22: 2020/09/07. 43: 2021/07/08 51: B61F; F16F
- 71: Amsted Rail Company, Inc.

72: WIKE, Paul Steven, ALEYNIKOV, Igor, DOERR, Jared, PETRUNICH, Tom

33: US 31: 62/663,755 32: 2018-04-27 54: RAILWAY TRUCK ASSEMBLY HAVING FRICTION ASSIST SIDE BEARINGS 00⁻ -

A friction assist side bearing assembly for a truck assembly of a rail vehicle includes a first friction member, a second friction member that opposes the first friction member, and a cap coupled to the first friction member and the second friction member. The cap is configured to contact a portion of a car body coupled to the truck assembly.



21: 2020/05531. 22: 2020/09/07. 43: 2021/07/08 51: A01N; A01P; C07D 71: Syngenta Participations AG 72: HENNESSY, Alan Joseph, JONES, Elizabeth Pearl, HACHISU, Shuji, WILLETTS, Nigel James, DALE, Suzanna, GREGORY, Alexander William, HOULSBY, Ian Thomas Tinmouth, BHONOAH, Yunas, COMAS-BARCELO, Julia 33: GB 31: 1803736.6 32: 2018-03-08 54: HERBICIDAL COMPOUNDS 00: -

The present invention relates to compounds of Formula (I), wherein R^1 , R^2 , R^3 , R^4 and G are as defined herein. The invention further relates to herbicidal compositions which comprise a compound of Formula (I), to their use for controlling weeds, in particular in crops of useful plants.



- 21: 2020/05533. 22: 2020/09/07. 43: 2021/07/08
- 51: C03B; G01J
- 71: Saint-Gobain Isover

72: OUERGHEMMI, Ezzeddine, LIEBERKNECHT, Hans Michael, DEPUILLE, Jean-Dominique

33: FR 31: 1852204 32: 2018-03-14 54: METHOD FOR CONTROLLING A FIBRE DRAWING FACILITY

00: -

The present invention concerns a method for determining specific points of a rotary fiberising spinner (10) used in a fibre drawing device (1), said method comprising the following steps: - Taking temperature measurements of the fiberising spinner obtained by means of a temperature measurement device (40) suitable for taking temperature measurements of the spinner according to several angular positions of said measurement device in order to provide data to at least one calculation unit (30, 45) that constructs a curve representative of the temperature depending on the angular position of a temperature measurement device; - Processing said measurements by calculating the second derivative of the temperature curve depending on the angular position, by a calculation unit (30); - Seeking at least one specific point for which the second derivative meets a predefined condition.



21: 2020/05550. 22: 2020/09/08. 43: 2021/07/08 51: A47J; A47L 71: OUDBIER, Aart, CARTER, Mark Wayne, DANNHAUSER, Cornelius Johannes

72: OUDBIER, Aart, CARTER, Mark Wayne, DANNHAUSER, Cornelius Johannes 54: A GRILL CLEANER 00: -

The invention relates to a grill cleaning device 10 which is intended to be used to clean a braai grill by skewering either a halved lemon 11 or onion 8 using the device and scrubbing the grill down with the lemon or onion. To this end, the device includes an elongate handle 12 and a gripping formation which is connected to the handle 12 at an inclined angle relative to the handle. In one embodiment, the gripping formation is in the form of a non-planar, part-spherical shroud 14 which defines an inner cavity for receiving at least part of the lemon 11 and includes a non-linear arrangement of pins 15 for skewering the lemon. The non-linear arrangement of the pins 15 ensure that the lemon can be subjected to, and withstand, forces from different angles and directions without being dislodged from the pins 15.



21: 2020/05552. 22: 2020/09/08. 43: 2021/07/08 51: A47B; A47C

71: OLD TRAFFORD SEATING (PTY) LTD 72: BECKER, Melvyn Lawrence 54: MULTI-FUNCTIONAL FURNITURE ARRANGEMENT

00: -

A multi-functional furniture arrangement is provided, comprising at least one seating zone on which a person can sit; at least one support pedestal adjacent the seating zone, each support pedestal defining a cavity or recess; and a table tray housed within the cavity of each support pedestal. The table tray being movable between a stowed, substantially vertical, position, in which the table tray is housed

within the cavity, and an operative, substantially horizontal, position, in which the table tray extends out of the cavity and can be positioned above the seating zone to define a support for use. In an embodiment, a guiding formation is provided to assist and guide the movement of the table tray from the stowed position within the cavity, and the operative position.



21: 2020/05553. 22: 2020/09/08. 43: 2021/07/08 51: H01L

71: BEIJING UNIVERSITY OF TECHNOLOGY 72: GAO, ZHIYUAN, LU, LIWEI, ZHAO, LIHUAN, ZOU, DESHU

33: CN 31: 201911212069.X 32: 2019-12-02 54: SAW-TOOTHED ELECTRODE AND METHOD FOR ENHANCING PERFORMANCE OF NANOWIRE UV DETECTOR

00: -

The present invention discloses a saw-toothed electrode and a method for enhancing the performance of a nanowire UV detector, and relates to the field of semiconductor technologies. The sawtoothed electrode includes two symmetrically arranged patterns; the pattern includes a rectangle and multiple isosceles trapeziums; lower bases of the isosceles trapeziums are connected to a same long side of the rectangle; opposite sides of the two patterns are sides on which multiple isosceles trapeziums are located; equal-length legs and the upper base of the isosceles trapezium are used to grow nanowires; and nanowires grown on upper bases of two isosceles trapeziums, symmetric to each other, on the opposite sides of the two patterns form bridges.



- 21: 2020/05582. 22: 2020/09/09. 43: 2021/07/08 51: A61L
- 71: O'CONNELL, Jonathan 72: O'CONNELL, Jonathan 54: AN APPARATUS FOR SANITIZING A SURFACE

00: -

The sanitizing apparatus 10 includes an elongate housing 12 configured to in use be mounted to a support surface so that the housing is arranged in a spaced-apart relationship relative to a target surface to be sanitized. One or more sanitizing light sources 14 and one or more visible light sources 16 are arranged in the housing 12. The visible light sources 16 are arranged so that the area of the target surface illuminated by them in use substantially matches the area of the target surface exposed to the sanitizing light. Measuring devices 18 for measuring a distance between the sanitizing light sources 14 and the target surface is also arranged in the housing 12.



21: 2020/05598. 22: 2020/09/09. 43: 2021/07/06 51: B01D

71: DONALDSON COMPANY, INC. 72: RAHMATHULLAH, Aflal, DALLAS, Andrew, J., TUCKER, Brian, R., ADAMEK, Daniel, E., WAY, Paul, A., BETCHER, Scott, A., KAPOOR, Vijay, K., MARCKS, Colter, A., ROSSITER, William, S., WINTERS, Timothy, O., JODI, Wijadi, MORAVEC, Davis, B., SONTAG, Stephen, K., HAUSER, Bradly, G., GOERTZ, Matthew, P., JONES, Derek, O., ELSAYED, Yehya, A., RAJGARHIA, Stuti, S., CHRIST, Charles, S., BLOCK, Joseph, M. 33: US 31: 62/631,384 32: 2018-02-15 **54: FILTER ELEMENT CONFIGURATIONS** 00: -

The current technology relates to various filter elements configurations where a substrate layer defines a surface having a treatment. The treatment increases a roll off angle of the surface for a 50 water droplet when the surface is immersed in toluene. The filter element can have a housing and the substrate disposed in the housing. In some embodiments the substrate layer defines a plurality of pleats extending between pleat folds that form flow faces of the media. In some embodiments the substrate is incorporated into single facer media of a filter element. In some embodiments the substrate layer is incorporated in a filter element having a flowby configuration. In some embodiments the substrate layer is incorporated in a filter element having a cross-flow configuration. Some embodiments relate to a vent. Some embodiments relate to a barrier assembly and/or a fuel filter element. Various other filter elements are described.

21: 2020/05654. 22: 2020/09/11. 43: 2021/07/02 51: B01J; C25C

71: CHINA ENFI ENGINEERING CORPORATION 72: LU, YEDA, DAI, JIANGHONG, ZHAO, PENGFEI, YAO, FENGXIA, SHEN, MEILING, WU, XIAO, ZHU, JIANWEI, NIE, YING, LI, TAO, LI, BIN 33: CN 31: 201910889002.3 32: 2019-09-19 54: METHOD FOR REMOVING MANGANESE IONS AND APPLICATION THEREOF IN ZINC HYDROMETALLURGY

00: -

The disclosure provides a method for removing manganese ions and application thereof in zinc hydrometallurgy. The method comprises: performing an oxidation reaction between an oxidizing gas and a target solution with manganese ions to convert the manganese ions into precipitates, wherein the oxidizing gas comprises sulfur dioxide and oxygen. By controlling the pressure of the oxidizing gas and the partial pressures of sulfur dioxide and oxygen, the reaction raw materials participating in the oxidation reaction process perform an oxidation reaction under the oxidation potential in a specific range so as to remove manganese ions. The method not only solves the problem that impurities are introduced in the manganese ion removal process, but also supplements sulfur elements into the target solution. The method has the advantages of high manganese ion removal rate, on-line continuous operation, low process cost and the like.

21: 2020/05666. 22: 2020/09/11. 43: 2021/07/02 51: A61P; C07C; C07D 71: Jubilant Prodel LLC 72: VENKATESHAPPA, Chandregowda, D A, Jeyaraj, PENDYALA, Muralidhar, SIVANANDHAN, Dhanalakshmi, RAJAGOPAL, Sridharan 33: IN 31: 201841009252 32: 2018-03-13 54: BICYCLIC COMPOUNDS AS INHIBITORS OF PD1/PD-L1 INTERACTION/ACTIVATION 00: -

The compounds of Formula I is described herein along with their polymorphs, stereoisomers, tautomers, prodrugs, solvates, and pharmaceutically acceptable salts thereof. The compounds described herein, their polymorphs, stereoisomers, tautomers, prodrugs, solvates, and pharmaceutically acceptable salts thereof are bicyclic compounds that are inhibitors of PD-1/PD-L1 interaction/activation.



21: 2020/05671. 22: 11/09/2020. 43: 2021/07/02 51: A61K; A61P

71: PEKING UNION MEDICAL COLLEGE HOSPITAL, SHANGHAI PHARMACEUTICALS HOLDING CO., LTD.

72: LI, TAISHENG, LIU, YANJUN 33: CN 31: 201810149149.4 32: 2018-02-13 54: APPLICATION OF (5R)-5-HYDROXYTRIPTOLIDE IN PREPARATION OF DRUGS

00: -

Disclosed in the present invention is an application of (5R)-5-hydroxytriptolide in the preparation of drugs, in particular an application in the preparation of drugs for treating and/or preventing acquired immune deficiency syndrome (AIDS) abnormal immune activation or incomplete immune reconstitution associated with AIDS abnormal immune activation. The present invention uses (5R)-5-hydroxytriptolide (T8) in experiments and finds that (5R)-5-hydroxytriptolide has an immunosuppressive activity against AIDS abnormal immune activation or incomplete immune reconstitution associated with AIDS abnormal immune activation, is characterized by high efficiency and low toxicity, and has a good safety treatment index.

21: 2020/05713. 22: 2020/09/15. 43: 2021/07/07 51: F16B

71: Lekonakonetsi Consulting Services (Pty) Ltd 72: Lerato Molefi, Collin Molefi

54: A MECHANISM FOR MANAGING AUTHORIZED ACCESS TO ONE OR MORE INFRASTRUCTURE ASSETS, AND A METHOD OF MANAGING ACCESS TO ONE OR MORE INFRASTRUCTURE ASSETS 00: -

According to a first aspect of the invention, a mechanism is provided for managing authorized

access to one or more infrastructure assets such as manholes, said mechanism including one or more of the following: a locking apparatus operable to be installed on an infrastructure asset access point such as a manhole cover; and one or more electronic key/s operable to operate each of said locking apparatus'; wherein said one or more electronic key/s are operable to lock and/or unlock said locking apparatus and enable or disable access to said one or more manholes based upon one or more predetermined user requirement/s. In an embodiment of the invention, said mechanism further includes a remote access management system, operable to remotely manage access to said one or more manholes



- 21: 2020/05718. 22: 2020/09/15. 43: 2021/07/07 51: A23B
- 71: Einenkel / Wirth GbR

72: DE BORTOLI, Valdir

33: DE 31: 10 2018 106 209.5 32: 2018-03-16 54: CONTAINER FOR RIPENING,

TRANSPORTING AND/OR STORING FRUIT

The present invention relates to a container or semitrailer, comprising a ripening chamber for storing, transporting and/or ripening fruit. The present invention particularly refers to a container or semitrailer in the form of a banana ripening chamber for the artificial and targeted ripening of bananas, mangoes, avocados and other suitable fruits (technique for ripening bananas and exotic fruits) on the way of transport and/or in conditions characterized by change of location.



21: 2020/05744. 22: 2020/09/16. 43: 2021/07/07 51: H04L

71: HDAC TECHNOLOGY AG

72: LEE, Jae Min, KIM, Byung Chul 33: KR 31: 10-2018-0021606 32: 2018-02-23 54: METHOD AND SYSTEM FOR ENCRYPTED COMMUNICATION BETWEEN DEVICES BY USING BLOCK CHAIN SYSTEM 00: -

The present invention relates to a method and system for encrypted communication between devices belonging to a group having been authenticated on the basis of stability provided by a block chain system. According to the present invention, P2P encrypted communication, encrypted communication between 1 and N, or encrypted communication between N and N is possible on a block chain system, in which all contents are disclosed, whereas an existing block chain enables only fully disclosed information to be shared.



21: 2020/05747. 22: 2020/09/16. 43: 2021/07/07 51: C07D A61P A61K 71: ADAMED PHARMA S.A. 72: KOLACZKOWSKI, Marcin, BUCKI, Adam, SNIECIKOWSKA, Joanna, MARCINKOWSKA, Monika

33: EP 31: 18461519.3 32: 2018-02-21 54: INDOLE AND BENZIMIDAZOLE DERIVATIVES AS DUAL 5-HT2A AND 5HT6 RECEPTOR ANTAGONISTS 00: -

The invention relates to new 4-(piperazin-1-yl)-2-(trifluoromethyl)-1H-indoles and 4-(piperazin-1-yl)-2-(trifluoromethyl)-1H-benzimidazoles represented by formula (I), wherein all symbols and variables are as defined in the description. The compounds can find use in a method of prevention and/or treatment of diseases selected from the group consistingof Alzheimer's disease, Parkinson's disease, Levy body dementia, dementia- related psychosis, schizophrenia, delusional syndromes and other psychotic conditions related and not related to taking psychoactive substances, depression, anxiety disorders of various aetiology, sleep disorders of various aetiology.



21: 2020/05756. 22: 2020/09/16. 43: 2021/07/07 51: A01G

71: Syngenta Participations AG 72: DONIZETI CORREA DA SILVA, Adilson, AMARAL, Leandro Irigon, BELTRAME, Fernando Lemos, MORAIS, Elmer, DE SILOS LABONIA, Victor Domiciano, BACHNER, Daniel 33: US 31: 62/647,110 32: 2018-03-23 54: METHODS OF PRODUCING SUGAR CANE TRANSPLANT UNITS 00: -

Methods of producing sugar cane transplant units that includes planting sugar cane propagation materials in a non-segregated planting medium to produce a sugar cane where the planting of the sugar cane propagation materials results in an emerged plant density of 25 to 200 plants per square meter; growing the sugar plant to an age of at least 4 months; harvesting the stalks of the sugar cane plant when the stalks have a length of 10 to 100 centimeters; cutting the harvested stalks into stalk segments, wherein the stalk segments are cut to a length of 1 to 5 centimeters; and planting one or more of the stalk segments into a planting container that has a volume from 10 to 200 cubic centimeters.



21: 2020/05757. 22: 2020/09/16. 43: 2021/07/07 51: A61M

71: Industrie Borla S.p.A.

72: GUALA, Gianni

33: IT 31: 102018000005165 32: 2018-05-08 54: FILTER FOR INFUSION MEDICAL LINES 00: -

Filter (1) for infusion medical lines comprising a flattened box-like body (2) provided inside which is a plate-shaped element (13) formed on whose one or both of the opposite faces are respective ribs (14) defining inner channels (15). Arranged on the ribs are respective filtering hydrophilic membranes (16)

which separate the channels (15) from respective interspaces (23, 23) delimited by a pair of half-shells (5, 6). The interspaces (23, 23) are placed in communication with the inlet connector (9), the channels (15) are placed in communication with the outlet fitting (10) and the interspaces (23) are placed in communication with the outside through vent openings (11a, 11b) arranged on the end walls (3, 4) of the box-like body (2).



- 21: 2020/05775. 22: 2020/09/17. 43: 2021/07/07 51: A23L
- 71: Halewood Laboratories Pvt. Ltd.

72: CHATURVEDI, Krutin Kaushik

33: IN 31: 201821031325 32: 2018-08-21

54: PLANT BASED VEGAN PROTEIN DRINK ENRICHED WITH REAL FRUIT JUICE 00: -

The present invention discloses plant based vegan protein drink, which is a combination of pulse protein (faba bean protein), rice protein and pea proteins, enriched with real fruit juices, vitamins and minerals. Particularly, the protein drink of the present invention is free of non-GMO protein, lactose, animal protein, gluten, allergen and has reduced fat content and cholesterol that gives complete nutritional value and works as a complete meal replacement. The protein Drink of the present invention which is rich in Amino acids also has good digestibility.

21: 2020/05776. 22: 2020/09/17. 43: 2021/07/07 51: B04C

71: Weir Canada, Inc.

72: SWINTAK, Mike, SCHMIDT, Mark, PAJIC,

Vladimir, HAIGHT, Richard, STARK, Ronald, SIU, Edwin

33: US 31: 62/646,035 32: 2018-03-21 54: WEAR-LEVELLING APPARATUS FOR CYCLONES

00: -

A wear-levelling apparatus (124) for a cyclone (100) includes: an upper section (128) defining an upper portion of a frusto-conical channel configured to receive material for delivery to a lower portion of the channel; a bearing assembly connected to the upper section; and a lower section (132) coupled to the upper section by the bearing assembly to permit rotation of the lower section about an axis of the channel; the lower section defining a lower portion of the channel configured to receive the material from the upper portion for discharge toward an outlet (120) of the cyclone.



21: 2020/05792. 22: 2020/09/17. 43: 2021/07/06 51: A61K; C07K; C12N; G01N; A61P 71: I-MAB BIOPHARMA CO., LTD.

72: WANG, ZHENGYI, FANG, LEI, GUO, BINGSHI, ZANG, JINGWU

33: CN 31: 201610831525.9 32: 2016-09-19 33: CN 31: 201610832677.0 32: 2016-09-19 54: ANTI-GM-CSF ANTIBODIES AND USES THEREOF

00: -

Provided are anti-GM-CSF antibodies or fragments thereof including humanized antibodies and fragments. Also provided are uses of the antibodies and fragments for therapeutic, diagnostic and prognostic purposes. Therapeutic uses of the antibodies and fragments, for example include the treatment of inflammatory and autoimmune diseases and disorders.

- 21: 2020/05796. 22: 2020/09/18. 43: 2021/07/01 51: C02F; A01P
- 71: Margie Joanne Petherick
- 72: Margie Joanne Petherick

54: COMPOSITION SUITABLE FOR SANITATION, DEODORISATION, HORTICULTURE AND PEST CONTROL

00: -

A composition comprising Diatomaceous Earth, Zeolite, and a mixture comprising one or more enzymes selected from the group consisting of Lipases, Amylases, Pro-teases, Mannanases and Pectinases. A second embodiment of the invention pro-vides a composition suitable for horticulture comprising Vermiculite and Zeolite.

21: 2020/05809. 22: 2020/09/18. 43: 2021/07/07 51: E01B

71: voestalpine Turnout Technology Zeltweg GmbH,
voestalpine Railway Systems GmbH
72: PÖSENDORFER, Markus, DORNIG, Peter
33: AT 31: A 87/2018 32: 2018-03-29
54: TONGUE RAIL

00: -

The invention relates to a tongue rail (1) for use in points, comprising a rail head (5), a rail web (6) and a rail base (7), wherein the tongue rail (1) has a first long section provided for abutting a stock rail (2) and a second, long section lying outside the abutting region, wherein the tongue rail (1) has in the second long section a basic cross-section profile, wherein in the second long section a vertically running central axis is defined in cross-section through the middle of the rail head (5), and a first section (10) of the rail

base (7) is arranged on a first side of the central axis and a second section (11) of the rail base (7) is arranged on a second side of the central axis opposite the first side, wherein the width of the first section (10) of the rail base (7) is greater in crosssection than the width of the second section (11) of the rail base (7), and wherein the cross-section of the tongue rail (1) has, at at least one point along the longitudinal extent of the rail, a ratio between the vertical area moment of inertia I y and the horizontal area moment of inertia I x of more than 0.5, preferably more than 0.6, particularly preferably more than 0.7.



21: 2020/05811. 22: 2020/09/18. 43: 2021/07/07 51: B02C; G05B

71: CiDRA Corporate Services LLC

72: MARON, Robert J., SEPULVEDA, Jaime 33: US 31: 62/644,672 32: 2018-03-19 54: OBJECTIVE FUNCTION FOR AUTOMATIC CONTROL OF A MINERAL ORE GRINDING CIRCUIT

00: -

A mineral processing system featuring a controller having a signal processor or processing module configured to: receive signaling containing information about a relationship between multiple particle size measurements of different measured particles having different measured particle sizes flowing in a hydrocyclone classifier overflow stream sensed by at least one particle size measurement device arranged on a hydrocyclone classifier overflow pipe of at least one hydrocyclone in a hydrocyclone battery, and about a floatable fraction that defines a particle size range of different floatable particle sizes of different floatable particles that can be recovered by the at least one hydrocyclone in the hydrocyclone battery; and determine corresponding signaling containing information to control a ground product size of ore having ground particles provided to the at least one hydrocyclone in the hydrocyclone battery, based upon the signaling received.



21: 2020/05822. 22: 2020/09/21. 43: 2021/07/07 51: A61K

71: PHARMATHEN S.A.

72: KARAVAS, Evangelos, KOUTRIS, Efthymios, SAMARA, Vasiliki, KOUTRI, Ioanna, KALASKANI, Anastasia, KAKOURIS, Andreas, FOUSTERIS, Manolis

54: SOLID DOSAGE FORM COMPRISING SITAGLIPTIN AND METHOD OF PREPARATION THEREOF

00: -

The present invention relates to a solid dosage form useful for the treatment of Type 2 diabetes. The main objective of the present invention is to provide tablets formulation including Sitagliptin or a pharmaceutically acceptable salt thereof that is robust and stable. An effective manufacturing process for the preparation of said tablets is also provided.

- 21: 2020/05830. 22: 2020/09/21. 43: 2021/07/08
- 51: H04N
- 71: Sony Corporation

72: IKEDA, Masaru

33: JP 31: 2018-065130 32: 2018-03-29 54: IMAGE PROCESSING DEVICE AND IMAGE **PROCESSING METHOD** 00: -

[PROBLEM] To provide an image processing device and an image processing method. [SOLUTION] An image processing device comprising: a decoding unit which decodes an encoded stream and generates a decoded image; a determining unit which determines whether or not a deblocking filter for color difference components of the decoded image needs to be applied to a block boundary of the decoded image on the basis of the boundary strength calculated using color difference parameters related to color differences; and a filtering unit which applies the deblocking filter to the color difference components of pixels positioned in the vicinity of the block boundary on the basis of the results determining whether or not the deblocking filter needs to be applied.



- 261
- BOUNDARY STRENGTH CALCULATING UNIT DETERMINING UNIT APPLICATION NECESSITY DETERMINING UNIT FILTER STRENGTH DETERMINING UNIT
- 267. 269... FILTERING UNIT
- DECODED IMAGE AA.
- BB... FLAG EXPRESSING PRESENCE/ABSENCE OF SIGNIFICANT COEFFICIENTS FOR EACH COMPONENT
- CC... OUTPUT IMAGE DD... FILTER COEFFICIENT

21: 2020/05834. 22: 2020/09/21. 43: 2021/07/08 51: C09K

71: Sasol Performance Chemicals GmbH

72: NGUYEN, Thu, ROMMERSKIRCHEN, Renke, FERNANDEZ, Jorge

33: US 31: 62/646,456 32: 2018-03-22

54: ALKYL ALKOXYLATED CARBOXYLATE SALTS AS STEAM FOAM ADDITIVES FOR **HEAVY OIL RECOVERY**

00: -

Recovering heavy oil from a subterraneous formation penetrated by at least one injection well and one production well, by injecting into the injection well a mixture of steam and an alkyl alkoxylated carboxylate salt, increasing the apparent viscosity of the steam while at the same time lowering the steam mobility, and recovering oil from the subterranean formation.



21: 2020/05894. 22: 2020/09/21. 43: 2021/07/07 51: E21C

71: BEARD, Gavin James, FORSYTH, Mark 72: BEARD, Gavin James, FORSYTH, Mark 33: ZA 31: 2018/01900 32: 2018-03-22 54: A PICK SLEEVE

00: -

The invention relates to a pick sleeve (10) including a head (12) and a shank (14). The head (12) includes a central part (20) and a bearing member (22) which is secured to the central part (20). The bearing member (22) is separable from the central part (20) in order to facilitate removal of the pick sleeve (10) from a holder (38). The invention extends to a tool (50) which is used in the removal of the pick sleeve (10) from the holder (38).



21: 2020/05958. 22: 2020/09/28. 43: 2021/07/29 51: G01J

71: TAKENAKA ENGINEERING CO., LTD. 72: TAKEUCHI, YOSHINORI, HOSOMI, NAOHITO 33: JP 31: 2019-193984 32: 2019-10-25 54: DETECTION DEVICE HAVING VISUAL DISTURBANCE MONITORING FUNCTION 00: -

Provided is a detection device having a visual disturbance monitoring function that prevents a reduction in the sensitivity of the detection device in human body detection. The detection device having the visual disturbance monitoring function includes a proximal light-blocking structure 142 disposed close to a light emitting element 110 so as to overlap an edge of a light guide portion 130, with the result that a light ray R provided by the light emitting element 110 passes through the light guide portion 130, an illumination area T spreads so as to extend over a cover 170 and cover the visual field of a human body detection element 190, and if there is any obstacle A, the light ray R is reflected by the obstacle A and transmitted through a light-transmitting cover part 171 to a light reception element 120, whereby visual disturbance is detected.



21: 2020/05959. 22: 2020/09/28. 43: 2021/07/08 51: H01H

71: TAKENAKA ENGINEERING CO., LTD. 72: TAKEUCHI, YOSHINORI 33: JP 31: 2019-193985 32: 2019-10-25 54: STRUCTURE OF TAMPER SWITCH 00: -

Provided is a tamper switch having a function readily switchable to suit the situation of installation and the intention of the user without the risk of losing a switch depression me. A structure of the tamper switch is characterized by including an opening provided in a base of a device, a switch provided at a location corresponding to the opening within the device, and a switch depression member including a projecting portion and being attached to the base, wherein, when the switch depression member is attached to the base such that the projecting portion is directed toward an attachment surface, and the device is not attached to the attachment surface, the projecting portion sticks out beyond an attachment surface contact portion of the base so as not to allow the switch to be pressed by the switch depression member; when the switch depression member is attached to the base such that the projecting portion is directed toward the attachment surface, and the device is attached to the attachment surface, the projecting portion is pressed against the attachment surface, and the switch is pressed directly or indirectly by the switch depression member; and when the switch depression member is attached to the base such that the projecting portion is directed toward the switch, the switch is pressed directly or indirectly by the switch depression member regardless of whether the device is attached to the attachment surface.



21: 2020/05960. 22: 2020/09/28. 43: 2021/07/08 51: G01J

71: TAKENAKA ENGINEERING CO., LTD.

72: TAKEUCHI, YOSHINORI

33: JP 31: 2019-193986 32: 2019-10-25

54: LIGHT-BLOCKING SHEET FOR PASSIVE INFRARED DETECTION DEVICE AND PASSIVE INFRARED SENSING DEVICE USING SAME 00: -

The present invention realizes a simply designed light-blocking sheet that allows easy setting of a wide variety of patterns of detection areas; the lightblocking sheet is intended for use in a passive infrared detection device with a detection area formed by a vertically divided multiple-segment lens, and the present invention also realizes such a passive infrared detection device using the same light-blocking sheet. In the light-blocking sheet for use in the passive infrared detection device with a detection area formed by a vertically divided multiple-segment lens, the light-blocking sheet is generally rectangular and has perforations or fold lines spaced apart at light blocking intervals of one detection zone. The passive infrared detection device has protrusions arranged at regular intervals at a front of a body thereof, the protrusions are provided for each detection zone and adapted to be placed in attachment holes of the light-blocking sheet so as to attach the light-blocking sheet to the passive infrared detection device.



21: 2020/05966. 22: 2020/09/28. 43: 2021/07/07 51: H04L

71: MAPMYID, INC.

72: SANTOSH, Kush, GOPALAKRISHNAN, Gopal Santosh, GAIKWAD, Pramod, KADAM, Nisha, KESHAN, Akshat, LEE, John, MUTHU, Arunachalam, CHOPDAWALA, Fakhruddin 33: US 31: 62/638,362 32: 2018-03-05 54: ADDRESS EXCHANGE SYSTEMS AND METHODS

00: -

A product exchange system comprising a controller and a memory coupled to the controller. The controller is configured to: provide an application programing interface configured to receive a delivery request from a first user for delivery of an item, wherein the delivery request includes an identifier of a second user, and wherein the API is configured not to receive a physical address of the second user; in response to receiving the delivery request, access a data storage system that stores an association between the identifier and the second user, and further stores one or more permission settings associated with the second user defining delivery requests to allow in response to receipt of the identifier from the first user or in response to receipt of one of the item and product characteristic; and, in response to receipt of the delivery request, tests the permission settings.



- 21: 2020/05971. 22: 2020/09/28. 43: 2021/07/07 51: C02F; C25B
- 71: Northstar Medical Radioisotopes LLC
- 72: LUST, Dorian
- 33: US 31: 62/649,928 32: 2018-03-29
- 54: SYSTEMS AND METHODS FOR OZONE WATER GENERATOR

00: -

A novel cell for generating ozonated water, the cell comprises a nation membrane separating a diamond coated anode, and a gold surfaced cathode enclosed within a cell housing with the catalyst side of the nation membrane facing the cathode. The cell housing has a cathode housing portion and an anode housing portion separated by the membrane, each housing portion having ridges to enhance substantially even flow of fluid over the cathode and anode. The housing portions contain O-rings in grooves to prevent leaks, and alignment features to keep the electrodes aligned. The cathode and anode have an array of holes allowing fluid to penetrate to the surface of the niobium membrane. Input ports allow fluid to flow into the housing and over the anode and cathode and then out of the housing through outlet ports. The housing may also

incorporate an integrated spectral photometer including a bubble trap.



21: 2020/05973. 22: 2020/09/28. 43: 2021/07/07 51: B65D; C08L

71: Huhtamaki Molded Fiber Technology B.V. 72: KUIPER, Harald John, TIMMERMAN, Jan Hendrik

33: NL 31: 2020688 32: 2018-03-29

54: PACKAGING UNIT FROM A MOULDED PULP MATERIAL WITH PEELABLE LAMINATED LAYER AND METHOD FOR MANUFACTURING SUCH PACKAGING UNIT 00: -

The present invention relates to a packaging unit (2) for a moulded pulp material and a manufacturing process therefore. The packaging unit according to the invention comprises a product receiving or carrying compartment having a product contact surface, wherein the product contact surface comprises a peelable laminate layer (10). In a presently preferred embodiment the moulded pulp material comprises an amount of a bio-degradable aliphatic polyester.



21: 2020/05978. 22: 2020/09/28. 43: 2021/07/07 51: B65D: C08L

71: Huhtamaki Molded Fiber Technology B.V. 72: KUIPER, Harald John, TIMMERMAN, Jan

Hendrik

33: NL 31: 2020687 32: 2018-03-29

54: BIODEGRADABLE AND COMPOSTABLE FOOD PACKAGING UNIT FROM A MOULDED PULP MATERIAL WITH A CELLULOSE-BASE LAMINATE LAYER, AND METHOD FOR MANUFACTURING SUCH FOOD PACKAGING UNIT

00: -

The present invention relates to a biodegradable food packaging unit (2) from a moulded pulp material and a method for manufacturing such biodegradable packaging unit. The packaging according to the invention comprises a food receiving or carrying compartment having a food contact surface, wherein the moulded pulp material comprises an amount of a biodegradable aliphatic polyester; wherein the food contact surface comprises a cellulose-based laminate layer (10); and wherein the food packaging unit is a compostable food packaging unit. In a preferred embodiment the amount of biodegradable aliphatic polyester is in the range of 0.5-20 wt. %, more preferably in the range of 1-15 wt. %.



- 21: 2020/05979. 22: 2020/09/28. 43: 2021/07/07
- 51: C02F; C25B; G01N

71: Northstar Medical Radioisotopes LLC

72: LUST, Dorian

33: US 31: 62/649,928 32: 2018-03-29 54: SYSTEMS AND METHODS FOR OZONE WATER GENERATION CELL WITH INTEGRATED DETECTION

00: -

A novel cell for generating ozonated water including an integrated ozone concentration detector. The cell comprises a nation membrane separating a diamond coated anode, and a gold surfaced cathode enclosed within a cell housing with the catalyst side of the nafion membrane facing the cathode. The cell housing has a cathode housing portion and an anode housing portion separated by the membrane. The cathode and anode have an array of holes allowing fluid to penetrate to the surface of the niobium membrane. Ozonated water from the anode is channeled to a spectrophotometer integrated within the housing. The spectrophotometer creates a signal representative of the ozone concentration in the ozonated water which is utilized by control circuitry in a closed loop to maintain a stable target concentration. A bubble trap may be integrated within the housing through which the ozonated water passes before entering the spectrophotometer to remove bubbles form the ozonated water. Input ports allow fluid to flow into the housing and over the anode and cathode and then out of the housing through outlet ports.


21: 2020/06003. 22: 2020/09/29. 43: 2021/07/08 51: A47B; E04B; E06B 71: Gailtrade Group CC 72: GOVENDER, Trishaana 54: SCREEN ASSEMBLY 00: -

The invention relates to a screen assembly 10 for use in office or workspace partitioning or dividing. The screen assembly 10 includes a framed panel 12 which includes an upper board 13, and a lower board 14 which are framed by opposing lateral stiles and top and bottom rails provided about an outer periphery. The screen assembly 10 further includes cable trunking 15 for receiving cables therethrough which forms a mid-rail between the boards 13, 14. The cable trunking 15 extends laterally between the stiles and comprises dual raceways 16 defined by a W-channel-shaped base 15.1 and removable lids 15.2. End caps 25 defining eyelets 26 close off ends of the raceways 16 and grommets 27 are provided in registering slots 23 formed in the stiles so that cables can pass safely through the respective raceways 16 without being caught or damaged on jagged edges.



- 21: 2020/06009. 22: 2020/09/29. 43: 2021/07/08
- 51: A63B
- 71: Balanced Body, Inc.
- 72: ENDELMAN, Ken, SPELMAN, Kit W.
- 33: US 31: 15/950,047 32: 2018-04-10

54: ULTRA CLASSIC REFORMER APPARATUS 00: -

A rectangular frame for a reformer exercise apparatus is disclosed which includes a pair of spaced apart side rail members, a head end member, a foot end member; and four corner members, each joining one of the side rail members to one of the end members. Each side rail member and each end member is a rigid generally rectangular extrusion. The top wall, the bottom wall and the inner vertical wall have interior screw races. The outer vertical wall has a pair of spaced interior projecting screw races. Each corner member is fastened to one of the end members and one of the side members by threaded fasteners projecting from the screw races through apertures in the L shaped elongated corner member, and an L shaped cover hides these fasteners from view.



21: 2020/06047. 22: 2020/09/30. 43: 2021/07/29 51: E02D

71: SHANDONG JIAOTONG UNIVERSITY, SHANDONG UNIVERSITY

72: CUI, Xinzhuang, LI, Jin, JIN, Qing, ZHANG, Jiong, WANG, Jieru, ZHANG, Xiaoning, WANG, Yilin, LI, Jun

33: CN 31: 201810482308.2 32: 2018-05-18 54: ANTI-CLOGGING STRENGTHENED WATER-PERMEABLE PILE AND CONSTRUCTION METHOD

00: -

Disclosed are an anti-clogging strengthened waterpermeable pile and a construction method. The anticlogging strengthened permeable pile is formed by strengthening a water-permeable geotextile (5), adding a two-way geogrid (4), and forming a geotextile cylinder (7), which can not only improve the forming ability of a pile body, but also improve the strength of the pile body of the water-permeable pile; and then wrapping the geotextile cylinder with a water-permeable concrete pile to form a bagged water-permeable concrete pile, which can not only ensure good permeability, but also reduce the entry of soil particles to prevent the water-permeable concrete pile from being clogged. Moreover, the geogrid (4) has a large tensile strength itself and thus closely encloses the pile body, so that the pile body has greater strength and modulus, thereby improving the resistance to deformation and damage.



21: 2020/06050. 22: 2020/09/30. 43: 2021/07/29 51: E01C; E02D

71: SHANDONG JIAOTONG UNIVERSITY, SHANDONG UNIVERSITY 72: CUI, Xinzhuang, LI, Jin, JIN, Qing, ZHANG,

Jiong, SU, Junwei, WANG, Jieru, WANG, Yilin, LI, Jun, HAN, Ruonan

33: CN 31: 201810539833.3 32: 2018-05-30 54: ELECTRO-OSMOSIS TREATMENT METHOD FOR REDUCING MOISTURE CONTENT OF ROADBED, AND ROAD STRUCTURE 00: -

An electro-osmosis treatment method for reducing the moisture content of a roadbed (2), and a road structure, said method comprising: inserting electrodes into the over-wet soil roadbed (2) and supplying a direct current. Under the action of the direct current, moisture in the filler of the roadbed (2) is forced to gather in the vicinity of a cathode electrode (5) and is discharged, so as to reduce the moisture content of the roadbed (2). Said construction method avoids the excavation of the roadbed (2), and while ensuring the normal passage of the road, the construction process is simplified, the construction cost is reduced, thereby having a broad application prospect.



21: 2020/06051. 22: 2020/09/30. 43: 2021/07/29 51: A01K

71: WINGOLD GmbH 72: HOLZBAUR, Petra 33: AT 31: A50282/2018 32: 2018-04-06 54: ANIMAL FEED DISPENSER 00: -

The invention relates to an animal feed dispenser, in particular for horses, comprising a downwardly open, substantially vertically oriented tube (1) with at least one filling opening (2) for animal feed that is arranged in the upper portion of the tube (1). At least two elastic cables (3) which project through in the interior transversely with respect to the longitudinal axis of the tube (1) are arranged above one another, wherein a clearance (4) remains above each cable (3) and in each case allows only the reception of an individual portion unit of the animal feed, and wherein each cable (3) is connected to an end of an associated pulling element (5) which is guided outwardly substantially normal to the respective elastic cable (3) via an opening (6) in the tube wall, wherein a biting element (7) is fastened to the end of the pulling element (5) that is situated outside the tube (1).



21: 2020/06064. 22: 2020/09/30. 43: 2021/07/08 51: E01B

71: voestalpine Turnout Technology Zeltweg GmbH, voestalpine Railway Systems GmbH 72: WIPFLER, Erich

33: AT 31: A 170/2018 32: 2018-06-12 54: STOCK RAIL

00: -

A stock rail (1) for use in a set of points, comprising a rail head (5), a rail web and a rail foot, wherein: the stock rail (1) has a first longitudinal section (3) that forms a contact region for a point rail (2), and has a second longitudinal section (4) that lies outside the contact region; the stock rail (1) has in the second longitudinal section (4) a base profile cross-section with a central axis (9) running through the centre of the rail head cross-section; the rail head (5) in the first longitudinal section (3) is machined starting from the base profile cross-section so that, in comparison with the base profile, the running edge (7) is closer to the central axis (9) of the stock rail (1); and the width of the rail head (5), at least at one first point in the first longitudinal section (3), is substantially not reduced, and the reduction in the width, at least at one second point in the first longitudinal section (3), is at its maximum. For this stock rail, the running edge (7) at the first point and the running edge (7) at the second point lie substantially on a common running edge plane (8).



21: 2020/06066. 22: 2020/09/30. 43: 2021/07/08 51: C07K

71: F. Hoffmann-La Roche AG 72: DENGL, Stefan, FENN, Sebastian, FISCHER, Jens, HINZ, Andreas, KIRSTENPFAD, Claudia, KLOSTERMANN, Stefan, MOELLEKEN, Joerg, TIEFENTHALER, Georg, HOVES, Sabine, BUJOTZEK, Alexander, MAJETY, Meher 33: EP(CH) 31: 18168011.7 32: 2018-04-18 54: ANTI-HLA-G ANTIBODIES AND USE THEREOF

00: -

The present invention relates to anti-HLA-G antibodies and methods of using the same.



21: 2020/06078. 22: 2020/09/30. 43: 2021/07/08

51: A01N; C12N

71: STELLENBOSCH UNIVERSITY

72: BOTHA-OBERHOLSTER, Anna-Maria, SWIEGERS, Hendrik Willem, BURGER, Nicolaas Francois Visser

33: ZA 31: 2018/01488 32: 2018-03-05 54: METHOD FOR CONTROLLING PEST INFESTATIONS

00: -

The invention provides siRNA molecules for use in controlling pest infestation. The siRNA molecules target the mature mRNA of D. noxia cprr1-8 in a region between nucleotides 464 and 774 of SEQ ID NO: 23, or an equivalent region of an ortholog of D. noxia cprr1-8. Ingestion of the siRNA molecule by a pest inhibits the biological activity of the pest. In one embodiment, the siRNA molecule comprises a polynucleotide which has at least 80% sequence identity to the sequence 5'

UAAACAAUCGCAAGAAGCUGA 3' (SEQ ID NO: 1) and a polynucleotide which has at least 80% sequence identity to the sequence 5'

AGCUUCUUGCGAUUGUUUAAG 3' (SEQ ID NO: 2). Compositions comprising the siRNA molecules, vectors encoding the siRNA molecules, and methods for using the siRNA molecules are also provided

21: 2020/06108. 22: 2020/10/02. 43: 2021/07/15 51: H02K

71: EMS INDUSTRIES (PTY) LTD 72: ROSSOUW, Jean Pierre, VAN WYK, Hendrik Petrus Daniel, JORDAAN, Gabriel Delport 54: A FLUID-POWERED ELECTRICAL GENERATOR

00: -

The invention relates to a fluid-powered electrical generator 10 which includes an enclosure 12, an integrated impeller 14 mounted in an inner chamber 19 of the enclosure for rotation about a rotation axis X, a stator including a plurality of windings in the form of spiral tracks 16 etched/printed on a PCB 18 which is also housed inside the enclosure 12 and control circuitry mounted to the PCB 18. The PCB 18 is mounted in a PCB seat 22 of the enclosure 12 such that the integrated spiral tracks 16 are contiguous with the impeller 14. Magnets 14.3 of a rotor of the electrical generator are integrated into a central body 14.1 of the impeller such that they are coplanar with the body 14.1. Vanes 14.2 are circumferentially disposed about the body 14.1. This integrated configuration reduces the size and weight

of the electrical generator and increases its robustness.



21: 2020/06109. 22: 2020/10/02. 43: 2021/07/15

51: G06F; G06Q

71: Van Der Walt, Chris Andries, HOUSEHAM, Craig Redvers

72: Van Der Walt, Chris Andries, HOUSEHAM, Craig Redvers

33: ZA 31: 2019/06679 32: 2019-10-10 54: PAYMENT SYSTEM AND METHOD

00: -A payment system to connect a

A payment system to connect and facilitate payment between customers (on the demand side) and service providers (on the supply side) is provided. The system comprises a carrier (such as a card or lanyard) associated with each service provider, the card including a unique identifier to identify the service provider; at least one processor; and a memory device containing instructions which when executed cause the processor to receive a payment initiation instruction from the customer wishing to pay the service provider, based on the customer's unique identifier; prompt the customer to select between immediate payment, in which case a payment process is initiated, and delayed payment, in which case an integrity process is initiated which includes sending a reminder message after a predetermined period of time to the customer to remind him/her to pay.



21: 2020/06110. 22: 2020/10/02. 43: 2021/07/15 51: B65D

71: ACROSS AFRICA FUELS (PTY) LTD 72: POTGIETER, Willem Frederik

33: ZA 31: 2019/06507 32: 2019-10-03

54: CONTAINER FOR TRANSPORTING LIQUIDS

00: -

A container for transporting liquids is disclosed. The container is configured to be positioned on or secured to a vehicle. The container has a body which defines an internal volume and at least one closable port. The container includes a plurality of fluid-impermeable internal walls connected to the body so as to be located in the internal volume. The internal walls define a plurality of compartments or chambers within the body when the internal volume is substantially filled with liquid. At least some of the compartments are in fluid communication with each other via openings in or between the internal walls. Each compartment is in fluid communication with at least one of the port(s) such that, when the internal volume is filled with liquid via the port(s), the liquid is distributed between the compartments. The body and the internal walls are manufactured from foldable material.



21: 2020/06111. 22: 2020/10/02. 43: 2021/07/15 51: F25C 71: TURK, MARC TIMOTHY 72: TURK, Marc Timothy 33: ZA 31: 2019/06529 32: 2019-10-04 54: AN ICE MOLD 00: -

The invention provides a mold for making blocks of ice, the mold comprising; a first mold portion comprising a first set of adjoining concave recesses, each recess defined by walls and a base and separated from and connected to its adjoining recess by a dividing wall; and a second mold portion comprising a complementary second set of adjoining concave recesses, each recess defined by walls and a base and separated from and connected to its adjoining recess by a dividing wall; the edges of the corresponding recesses in the first and second mold portions being shaped to connect with each other

when the first and second mold portions are releasably joined together to define a plurality of adjoining cavities for receiving and retaining a fluid; wherein the adjoining cavities are in flow communication with one another and the mold further includes a closable inlet port.



- 21: 2020/06146. 22: 2020/10/05. 43: 2021/07/15 51: G06F
- 71: SIMELANE, Fuzile Goodenough

72: SIMELANE, Fuzile Goodenough, MODISELLA, Tebogo

33: ZA 31: 2019/05657 32: 2019-08-28 54: HEALTH MONITOR DEVICE

00: -

The present invention relates to a health monitoring system and devices, and more specifically to a health monitoring system and devices for monitoring the health of a user located outside of a primary telecommunications network. Said system comprises a wearable device having a sensor for capturing a vital sign of the user as output data, an intermediary transceiver, and an end-receiver for receiving said output data.



- 21: 2020/06165. 22: 2020/10/05. 43: 2021/07/14
- 51: C01B; C07F; C08G
- 71: Hysilabs SAS

72: BURCHER, Benjamin, LOME, Vincent, BENOIT, Remy

33: EP(FR) 31: 18305549.0 32: 2018-05-02 54: HYDROGEN CARRIER COMPOUNDS 00: -

The present invention relates to siloxane hydrogen carrier compounds and to a method for producing hydrogen from said siloxane hydrogen carrier compounds.



21: 2020/06180. 22: 2020/10/06. 43: 2021/07/14 51: C12R; C12N; A01N

71: BEIJING UNIVERSITY OF AGRICULTURE 72: GAO, XIUZHI, GAO, YI, CHEN, XIANGNING, LIU, HUIJUN, LIU, HUI, XU, QUANMING, ZHONG, LIANQUAN, JIANG, YIBING

33: CN 31: 202010553699. X 32: 2020-06-17 54: BACILLUS SUBTILIS STRAIN, BACTERIAL MANURE, AND PREPARATION METHOD AND USE THEREOF

00: -

The present invention belongs to the technical field of microbial fertilizer, and in particular to a Bacillus subtilis strain, a bacterial manure, and a preparation method and use thereof. The present invention provides a B. subtilis Y2 strain deposited under the accession number of CGMCC No. 18752, and the B. subtilis Y2 strain has an inhibitory effect on coliform bacteria and aerobic bacterial count in lettuce. A B. subtilis-containing bacterial manure provided by the present invention not only increases lettuce yield and reduces diseases, but also lowers coliform bacteria carried by the lettuce and the aerobic bacterial count.

- 21: 2020/06204. 22: 2020/10/07. 43: 2021/08/20 51: E05B; E05G
- 71: TRACE, Anthony Patrick
- 72: TRACE, Anthony Patrick

33: ZA 31: ZA2019/06600 32: 2019-10-07

54: ANTI-THEFT APPARATUS

Anti-theft apparatus for a gate motor which includes two retention members which are anchored to the ground on opposing sides of the gate motor, a bracket which overlies the gate motor and which is engaged with upper ends of the retention members, and two locks which respectively secure the retention members to the bracket.



21: 2020/06234. 22: 2020/10/07. 43: 2021/07/16 51: A61K

71: CELLIX BIO PRIVATE LIMITED

72: KANDULA, Mahesh

33: IN 31: 201841011146 32: 2018-03-25 54: COMPOSITIONS AND METHODS FOR THE TREATMENT OF NEUROLOGICAL DISEASES 00: -

The invention relates to the compounds or its pharmaceutical acceptable polymorphs, solvates, enantiomers, stereoisomers and hydrates thereof. The pharmaceutical compositions comprising an effective amount of compounds of formula I, formula II and formula III and the methods for the treatment of neurological diseases may be formulated for oral, buccal, rectal, topical, transdermal, transmucosal, lozenge, spray, intravenous, oral solution, nasal spray, oral solution, suspension, oral spray, buccal

mucosal layer tablet, parenteral administration, syrup, or injection. Such compositions may be used to treatment of neurological diseases.

21: 2020/06240. 22: 2020/10/08. 43: 2021/07/16 51: E04H 71: AMULUS SECURITY LIMITED

72: FROST, Jonathan, Ernest

33: ZA 31: 2019/06803 32: 2019-10-16

54: A MODULAR SAFE-HOUSE SYSTEM

The present invention relates to a safe-house system. More particularly, but not exclusively, this invention relates to a modular safe-house which provides protection especially from projectiles with and without the effects of a blast. The modular safehouse system including a container; a safe-house frame formed from members that are attached together, the frame being housed inside the container; attachment means for securably attaching a plurality of ballistic and blast resistant panels about the safe-house frame and joined together to form walls, a floor and a roof to said safe-house frame; at least one door attached to one of the walls of the safe-house frame for allowing access into or exit from the interior of the frame, wherein the frame, panels and door form the safe-house for persons seeking temporary shelter; a security monitoring system for monitoring the security of the safe-house and its occupants; thermal and acoustic insulation material arranged adjacent to the interior face of the safe-house walls; one or more ventilation means for providing ventilation to the interior of the safe-house; and air monitoring and filtration equipment for monitoring the air quality and filtering air contaminants from air passed therethrough.



21: 2020/06247. 22: 2020/10/08. 43: 2021/07/16 51: A61P C07K

71: AFFIMED GMBH

72: KLUGE, Michael, TESAR, Michael, FUCEK, Ivica, ELLWANGER, Kristina, REUSCH, Uwe, DAMRAT, Michael, RAJKOVIC, Erich, TREDER, Martin

33: EP 31: 18161871.1 32: 2018-03-14 54: BISPECIFIC EGFR/CD16 ANTIGEN-BINDING PROTEIN 00: -

Described are tetravalent, bispecific EGFR/CD16A antigen-binding proteins for engaging NK-cells towards EGFR-positive cells. EGFR/CD16A antigenbinding proteins with different pharmacokinetic (PK) properties are described. Further described is the use of bispecific EGFR/CD16A antigen-binding proteins for the treatment of an EGFR-positive malignancy, such as EGFR-positive tumors.

- 21: 2020/06256. 22: 2020/10/08. 43: 2021/07/16
- 51: G06K
- 71: Identy Inc.
- 72: ARAGON, Jesus

33: EP(DE) 31: 18382174.3 32: 2018-03-16 54: METHOD FOR IDENTIFYING AN OBJECT WITHIN AN IMAGE AND MOBILE DEVICE FOR EXECUTING THE METHOD 00: -

A method for identifying a user using an image of an object of the user that has a biometric characteristic of the user, like a fingerprint or a set of fingerprints of

fingertips, the method comprising: obtaining, by an optical sensor of a mobile device, the image of the object; providing the image to a neural network; processing the image by the neural network, thereby identifying both, the position of the object and the object in the image; extracting, from the identified object, the biometric characteristic; storing the biometric characteristic in a storage device and/or providing at least the biometric characteristic as input to an identification means, comprising processing the input in order to determine whether the biometric characteristic identifies the user.



21: 2020/06257, 22: 2020/10/08, 43: 2021/07/15 51: A61F

71: Edwards Lifesciences Corporation 72: GOLDBERG, Eran, AXELROD, Noa, NEUMANN, Yair A., MANASH, Boaz, MAIMON, David, LEIBA, Eyal, SCHNEIDER, Ralph, TAYEB, Liron

33: US 31: 62/655.059 32: 2018-04-09

54: EXPANDABLE SHEATH 00: -An expandable sheath is disclosed herein, which has a first polymeric layer and a braided layer positioned radially outward of the first polymeric layer. The braided layer includes a plurality of filaments braided together. The expandable sheaths further include a resilient elastic layer positioned radially outward of the braided layer. The elastic layer is configured to apply radial force to the braided layer and the first polymeric layer. The expandable sheath further includes a second polymeric layer positioned radially outward of the elastic layer and bonded to the first polymeric layer such that the braided layer and the elastic layer are encapsulated between the first and second polymeric layers. Methods of making and using the devices disclosed herein are also disclosed, as are

crimping devices that may be used in methods of making the devices disclosed herein.



21: 2020/06260. 22: 2020/10/08. 43: 2021/07/15 51: F16B; F16H 71: Andritz Ov 72: KAARAKAINEN, Pekka, HANNIMÄKI, Ari, VUOLLE, Mika 33: FI 31: 20185393 32: 2018-04-27 54: TRANSMISSION WHEEL AND A METHOD FOR ITS MOUNTING 00: -

A transmission wheel assembled of at least two segments (1) on a shaft (12), the inner arc surface (3) of which and the shaft (12) have essentially the same radius (R), and which segments' (1) outer surfaces (9) have profiled surfaces that transmit the power of the transmission wheel. Between the segments' (1) welded-together end faces (4) there are gaps on those sections of the end faces (4) that are not welded, which creates a press fit between the shaft (12) and the inner arc surface (3) of the transmission wheel. The weld connecting the transmission wheel segments' (1) end faces (4) is preferably incomplete, meaning that it does not reach the shaft (12).



21: 2020/06261. 22: 2020/10/08. 43: 2021/07/15 51: C11D

71: Givaudan SA

72: GHOSH, Pabitra, CHARMOILLE, Claude, VISWANATH, Arun Kumar 33: GB 31: 1807529.1 32: 2018-05-09

54: WASHING COMPOSITION

00: -

A fragranced washing composition consisting of two separate components, a first component being a washing composition base containing part of a fragrance, and the second component consisting of a particulate carrier containing the remainder of the fragrance, the particulate carrier comprising a particulate silica and a water- soluble salt selected from the chlorides and sulphates of alkali metals, the composition comprising at least 1.0% by weight of water- soluble salt, at least 1% by weight of fragrance and 98.0% maximum by weight of silica, and the weight ratio of water-soluble salt to fragrance in the particulate carrier being from 1:1 to 97.5:1, those fragrance ingredients that are aldehydes, acetates, esters, lactones and epoxides being present only in the fragrance component in the particulate carrier. A method of providing a full fragrance to a wash, comprising the addition to the

wash of said two-component washing composition, the first component being added at the start of a wash cycle and the second at any time during the wash cycle.



21: 2020/06298. 22: 2020/10/09. 43: 2021/08/20 51: A61K; A61P 71: HEALX LIMITED 72: BROWN, David 33: US 31: 62/657,275 32: 2018-04-13 54: KIT, COMPOSITION AND COMBINATION THERAPY FOR FRAGILE X SYNDROME 00: -

The present invention relates to a kit comprising: (i) at least one dose of sulindac, or a pharmaceutically acceptable salt thereof; and (ii) at least one dose of Compound A, or a pharmaceutically acceptable salt thereof, for the treatment of fragile x syndrome.



21: 2020/06337. 22: 2020/10/06. 43: 2021/08/20 51: E04G

71: WILHELM LAYHER VERWALTUNGS-GMBH 72: Wolf Christian BEHRBOHM 33: DE 31: 10 2018 114 244.7 32: 2018-06-14 54: INDIVIDUAL SCAFFOLDING POST

00: -

The invention relates to an individual scaffolding post (21.1) made of metal for facade scaffolding or of facade scaffolding, on which a single rosette is secured for detachably securing at least one horizontal bar. A railing securing device (50.1) is secured above the rosette, on which a railing strut (24.1) is detachably supported. The railing securing device (50.1) comprises a rigid bracket (55) which is permanently secured to the scaffolding post and, together with an outer surface (68) of the scaffolding post (21.1) surrounds and engages around a through-opening (70) configured as a vertical receiving slit. A railing rod end (27.1) of the railing strut (24.1) has a first recess (83) on the underside (36), which is open to side surfaces of the railing rod end (27.1) extending away from one another and is open downwards (84). The railing rod end (27.1) is configured with a mounting hook (89), which limits a first recess (83) and partially surrounds same with its free hook end (94) extending to the rear (93). The

free hook end (94) engages behind the bracket contact part (60) of the bracket (55).



21: 2020/06338. 22: 2020/10/13. 43: 2021/07/14 51: A61B 71: ITHEMBA. LLC

72: BERGES, Alexandra, CALLANAN, Megan, HINSON, Laura, LEE, Madeline, TRIANTIS, Sophia, ZAWICKI, Valerie

33: US 31: 62/668,340 32: 2018-05-08 33: US 31: 16/406,823 32: 2019-05-08 54: REUSABLE CORE NEEDLE BIOPSY DEVICE AND DISPOSABLE NEEDLE SYSTEM TO ELIMINATE INTERNAL CONTAMINATION RISK IN REUSABLE PORTION OF DEVICE 00: -

A reusable core biopsy device having a disposable needle assembly to trap and a reusable drive assembly to selectively drive the disposable needle assembly. The disposable needle assembly includes a contamination collection member defining a fluidically-sealed contamination collection chamber to receive and collect contamination during the extraction of the organic tissue sample. The reusable drive assembly includes a locking mechanism to maintain reusable drive assembly in a locked state. An activation member is to place the reusable drive, in sequence, the inner needle member and the outer cannula member forward to extract the organic tissue sample.



21: 2020/06374. 22: 2020/10/14. 43: 2021/08/20 51: D01F

71: BJV RESEARCH, S. R. O.

72: Branko JAŠŠ, Ján TOMÁŠ, Valér KOKOŠ 33: SK 31: PUV 50034-2018 32: 2018-04-06 54: SYNTHETIC FIBER WITH ADDITION OF NATURAL MATERIAL AND METHOD OF ITS PRODUCTION

00: -

The volume content of the natural material in the resulting volume of the synthetic fiber (1) ranges from 0,5% to 45%. The natural material is milled into the form of particles (2) which have irregular shape with length differing from the width, whereby length (L) of the particle (2) of the natural material has a value ranging from 10% to 120% of the diameter of the synthetic fiber (1) and the width (W) of the particle ranges from 25% to 75 % of the length (L) of the particle (2). At the same time the width (W) of the particle (2) does not surpass 50% of the crosssectional diameter (D) of the synthetic fiber (1). Hemp, jute, linen, cotton, sisal, kenaf, wood, cellulose, lignocellulose, coconut, nut shells, starch, wheat, zeolite can be used as a natural material. The basic synthetic polymer component includes at least one thermoplastic polymer, for example polyolefin, such as polyethylene PE or polypropylene PP. Before the fiberization the natural material in form of milled particles (2) is added into the melt and subsequently the mixture of the synthetic polymer and particles (2) of the natural material are mixed at least for 5 minutes.



21: 2020/06435. 22: 2020/10/16. 43: 2021/07/14 51: C25B 71: HYDROX HOLDINGS LIMITED

72: GILLESPIE, Ivor, Malcolm, DE JAGER, Cornelis, Johannes, CUOMO, Jason, Raphael 33: ZA 31: 2018/02672 32: 2018-04-23 33: ZA 31: 2018/05934 32: 2018-09-05 54: ELECTRODES FOR DIVERGENT ELECTROLYTIC FLOW-THROUGH APPARATUSES

00: -

This invention relates to apparatuses, systems and methods for the production and separation of gases in membraneless liquid alkaline electrolysis, and particularly to electrodes and electrode assemblies for use in a divergent electrolytic flow-through apparatus. The apparatus according to the invention comprises an inlet chamber; first and second permeable electrodes each having first and second sides and defining an inner aperture surrounding the inner region, the first sides of the first and second electrodes arranged to face each other to define an electrode gap within the inlet chamber; a first electrolytic solution inlet into the outer region and a second electrolytic solution inlet into the inner region; a first outlet in fluid flow communication with the second side of the first electrode, and a second outlet in fluid flow communication with the second side of the second electrode.



21: 2020/06436. 22: 2020/10/16. 43: 2021/07/14 51: C01F; C22B 71: ARAFURA RESOURCES LIMITED 72: ELLIOT, Alexander Dean 33: AU 31: 2018901511 32: 2018-05-03 54: PROCESS FOR THE RECOVERY OF RARE EARTHS

00: -

A method for the precipitation of rare earth sulphate, the method including subjecting a crude rare earth sulphate solution to precipitation in the presence of a water soluble, volatile, organic compound to produce a rare earth sulphate precipitate and an acidic supernatant. The organic compound is preferably selected from the group consisting of methanol, ethanol, iso-propanol, tert-butanol, acetone or mixtures thereof, and is preferably methanol. Preferably, the organic compound is used in the precipitation at a weight ratio of between 0.25:1 to 1.5:1, and preferably 0.5: to 1.25:1, with the crude sulphate solution.

21: 2020/06437. 22: 2020/10/16. 43: 2021/07/14 51: C10G 71: LUMMUS TECHNOLOGY LLC 72: CHEN, Liang, LOEZOS, Peter, LEW, Perry, TOMSULA, Bryan, GROTEN, Willibrord A., PODREBARAC, Gary G. 33: US 31: 62/656,219 32: 2018-04-11 54: STRUCTURED PACKING FOR CATALYTIC DISTILLATION 00: - A catalytic distillation structure that may include a rigid framework having at least two grids with a plurality of horizontal fluid permeable tubes mounted to said grids to form a plurality of fluid pathways among the plurality of horizontal fluid permeable tubes. Additionally, each horizontal fluid permeable tubes may have a profile of a six-sided polygon. Further, the catalytic distillation structure may include a plurality of vertically plates or wires connecting vertically aligned tubes. Furthermore, the plurality of vertically plates or wires connects from a corner of one vertically aligned tubes to a corner of an adjacent vertically aligned tube.



- 21: 2020/06452. 22: 2020/10/16. 43: 2021/07/14
- 51: H02K; H02N
- 71: ALMOFADDA, Mohammad
- 72: ALMOFADDA, Mohammad
- 33: SA 31: 118390471 32: 2018-03-26
- **54: MECHANICAL MAGNETIC ENGINE**
- 00: -

This invention relates to a mechanical magnetic engine, which has a rewarding power. And the technical field concerned with this competencies the field of permanent and continuous self-mechanical movement, gained from clean permanent energy, non-permanent reservoirs. The most important

components of this invention are: magnets, conductors, and crankshafts. Metal materials which are not affected by magnetic spectrum, magnetic materials for magnetic field. Poles and gears for turning between (horizontal and vertical, and between circular and frequency. (Figure 1) This invention solves solar energy analyzer, mechanical fuel drills, electric motors, and the rest of the generators of clean energy such as solar energy, wind energy, hydro energy, and others. The invention can be used instead of the need for any mechanical movement energy, and any electrical energy.



21: 2020/06510. 22: 2020/10/20. 43: 2021/07/09 51: G21G

- 71: QSA Global Inc.
- 72: SHILTON, Mark
- 33: US 31: 62/686,748 32: 2018-06-19 54: LOW DENSITY IRIDIUM SOURCE
- 00: -

The disclosure pertains to improvements in a gamma radiation source, typically containing lowdensity alloys or compounds or composites of iridium in mechanically deformable and compressible configurations, within a sealed encapsulation, and methods of manufacture thereof.



21: 2020/06521. 22: 2020/10/20. 43: 2021/07/09 51: B65B; B65D; B65G

71: MPI, LLC

72: HOLDERMAN, Mark, RUSSELL, Gregory, August

33: US 31: 62/662,918 32: 2018-04-26

33: US 31: 62/783,394 32: 2018-12-21

54: PACKAGING APPARATUS AND SYSTEM 00: -

The technology described herein generally relates to an automated packaging apparatus and system that packages loose particles into a conical container as well as the final folded packages. More specifically, loose plant matter, such as crumbled dried leaves, are supplied to successive paper cones. The apparatus packs the crumbled leaves into the cones, closes the wide top portion of the cone into a precise shape, and then runs a quality control check to ensure that the final filled cone meets pre-set specifications.



21: 2020/06538. 22: 2020/10/21. 43: 2021/07/09 51: E02D E04B E04C

71: TENSAR INTERNATIONAL CORPORATION 72: LIEW, Willie, WISSMANN, Kord, J., PERALTA, Andres F., SMITH, Aaron D.

33: US 31: 62/649,079 32: 2018-03-28 54: GEOSYNTHETIC REINFORCED WALL PANELS COMPRISING SOIL REINFORCING HOOP MEMBERS AND RETAINING WALL SYSTEM FORMED THEREWITH 00: -

Geosynthetic reinforced wall panels comprising soil reinforcing hoop members and retaining wall system formed therewith is disclosed. Namely, a geosynthetic panel wall system is provided that includes at least one concrete facing panel that has at least one stabilizing hoop coupled thereto and wherein a soil reinforcing element or strip may be coupled to the stabilizing hoop. Additionally, a method of using the presently disclosed geosynthetic panel wall system reinforced with at least one stabilizing hoop and soil reinforcing element is provided.



21: 2020/06541. 22: 2020/10/21. 43: 2021/07/09 51: A61K

71: ADAMED PHARMA S.A.

72: GARBERA, Kamil, WOS-LATOSI, Katarzyna 33: EP 31: 18461541.7 32: 2018-03-26 54: PHARMACEUTICAL COMPOSITION COMPRISING BREXPIPRAZOLE 00: -

The present invention relates to a pharmaceutical composition comprising a granulate comprising brexpiprazole, wherein the granulate is obtained by wet-granulation of a carrier using a granulation liquid that is a solution of brexpiprazole in a solvent system. The present invention relates also to a granulate used in the pharmaceutical composition, and a unit dosage form comprising the pharmaceutical composition, and the method for manufacturing a pharmaceutical composition comprising brexpiprazole.

51: A61F C04B

71: SHANDONG UNIVERSITY

- 72: CHEN, Chuanzhong, ZHOU, Wanli, YU, Huijun 33: CN 31: 201810237042.5 32: 2018-03-21
- 54: CALCIUM

POLYPHOSPHATE/WOLLASTONITE BIO-COMPOSITE CERAMIC MATERIAL AND PREPARATION METHOD THEREFOR 00: -

Disclosed are a calcium polyphosphate/wollastonite bio-composite ceramic material and a preparation method therefor. The composite ceramic material is made of calcium polyphosphate and wollastonite, and the content of the calcium polyphosphate in

^{21: 2020/06545. 22: 2020/10/21. 43: 2021/07/15}

mass percentage is 5%-90%; preferably 35%-70%, further preferably 50%-70%, still further preferably 50%, 60% or 70%, and most preferably 50%. A calcium polyphosphate precursor is prepared from calcium dihydrogen phosphate as a raw material by means of a water washing and drying-sintering method. A calcium polyphosphate/wollastonite biocomposite ceramic material is successfully prepared by mixing and sintering the two, and the structure, mechanical properties, biological activity and degradation properties thereof may be adjusted by means of the adjustment of the proportional relationship between the two, thereby preparing a biomaterial with suitable properties according to actual requirements.



21: 2020/06546. 22: 2020/10/21. 43: 2021/07/15 51: B01F; C12H; C12L 71: LANXESS Deutschland GmbH 72: VOGL, Erasmus, TUTIC, Ermin 33: EP(DE) 31: 18163370.2 32: 2018-03-22 54: METHOD AND DEVICE FOR PRESERVING WINE-CONTAINING LIQUIDS

00: -

The present invention relates to a method and a device for preserving wine-containing liquids, and the use of said device for this purpose.



21: 2020/06548. 22: 2020/10/21. 43: 2021/07/15 51: A61F

71: Edwards Lifesciences Corporation

72: TAMIR, Ilan, RAJPARA, Vipul P., ROTH, Jonathan

33: US 31: 62/664,532 32: 2018-04-30 54: DEVICES AND METHODS FOR CRIMPING PROSTHETIC IMPLANTS 00: -

An assembly includes a holder device and a nonself-expandable prosthetic heart valve. The prosthetic heart valve can be radially compressed from an expanded configuration to a compressed configuration. The holder device is configured to hold the prosthetic heart valve in the expanded configuration and to allow the prosthetic heart valve to be inserted in a crimping device so that the prosthetic heart valve can be crimped onto a valve mounting portion of a delivery apparatus.



21: 2020/06570. 22: 2020/10/22. 43: 2021/07/15 51: A61K 71: CIPLA LIMITED 72: MALHOTRA, Geena, JOSHI, Kalpana, RAUT, Preeti, GHOSALKAR, Jeevan, DIXIT, Neeta 33: IN 31: 201821013065 32: 2018-04-05 54: PHARMACEUTICAL FORMULATIONS

00: -

A pharmaceutical formulation is provided comprising combination of anti-tuberculosis drug drugs optionally in combination of bioenhancers. The formulation is used for the treatment of diseases caused by mycobacterium tuberculosis. The process of preparation of the formulation is also provided.

21: 2020/06572. 22: 2020/10/22. 43: 2021/07/15 51: A61F

71: TSHIFULARO, Mashudu 72: TSHIFULARO, Mashudu 33: ZA 31: 2018/01935 32: 2018-03-23 54: TOTAL OSSICULAR PROSTHESIS (TOP) /MODERN STAPES PROSTHESIS IN CASES OF CONDUCTIVE HEARING LOSS 00: -

The invention provides a prosthetic (10) for use in the middle ear of a person. The prosthetic (10) includes a body (12) which resembles a malleus (14), incus (16) and stapes (18) and is shaped and configured to occupy similar space than a malleus, incus and stapes a hole (20) is defined through the body (12) through which, in use, a suspension wire (22) can be threaded and with one end of the wire (22) connected or cemented to the bony annulus and the other end connected or cemented to the opposed bony annulus to suspend the body in the middle ear cavity and allowing a rocking movement of the body to transmit vibrations from the tympanic membrane to the oval window or footplate. Alternatively attachment points or stubs are provided on the body to attach to remains of ligaments and tendons after the original malleus, incus and/ or stapes is surgically removed.



21: 2020/06579. 22: 2020/10/22. 43: 2021/07/14 51: A23L; A61K

71: ThermoLife International, LLC

72: NIKOLAIDIS, Alexandros, KRAMER, Ronald

33: US 31: 62/648,870 32: 2018-03-27

54: CREATINE AND/OR CREATININE COMPOSITIONS AND RELATED METHODS 00: -

The disclosure is directed to stable creatine compositions comprising creatinine, compositions comprising creatinine, and methods of using such compositions.



21: 2020/06605. 22: 2020/10/23. 43: 2021/07/09 51: G01N; E21B 71: SOUTHWEST PETROLEUM UNIVERSITY 72: LIANG, LIXI, LIU, XIANGJUN, ZHUANG, DALIN, XIONG, JIAN, ZHANG, WEN 33: CN 31: 201911026888.5 32: 2019-10-26 54: LABORATORY CORE ORIENTATION METHOD BASED ON ACOUSTIC VELOCITY ANISOTROPY 00: -

The invention relates to a laboratory core orientation method based on acoustic velocity anisotropy.

Based on consistency of acoustic velocity anisotropy of a drilling core and a coring stratum, a method for achieving core surface orientation by combining field acoustic logging with laboratory multi-directional acoustic testing of rock samples is established; the method is simple to operate and free from influence by lithology and mineral composition of the rock samples; and besides, batch positioning of cores from the same stratigraphic section can be achieved. The method has the characteristics of being reliable in results, convenient to operate, economic, efficient, and broad in applicability. The method has important basic guiding value in explanation of stratum structure (fracture) development, analysis of oil and gas migration direction, reasonable optimization of a development plan, deployment optimization of residual oil development wells in an old oilfield and the like.



- 21: 2020/06617. 22: 2020/10/23. 43: 2021/07/09 51: B32B; F28F
- 71: FAIN, Romy M.
- 72: FAIN, Romy M.
- 33: US 31: 62/658,146 32: 2018-04-16

54: FABRICATION METHODS, STRUCTURES, AND USES FOR PASSIVE RADIATIVE COOLING 00: -

Passive radiative cooling structures and apparatus manufactured with such cooling structures conserve energy needs. A flexible film transparent to visible light incorporates particles at a volume percentage larger than 25% so as to absorb and emit infrared radiation at wavelengths where Earth's atmosphere is transparent. Another film transparent to visible light is thin and flexible and configured to absorb and emit infrared radiation at wavelengths where Earth's atmosphere is transparent, wherein etchings or depositions are present on one or both surfaces. A high efficiency cooling structure has an emissive layer sandwiched between a waveguide layer and a thermal conductive layer. A solar cell panel is covered by a transparent passive radiative cooling film. A container housing an active cooling unit incorporates passive radiative cooling structures on one or more exterior surfaces.



- 21: 2020/06619. 22: 2020/10/23. 43: 2021/07/09 51: A61F; A61M
- 71: Edwards Lifesciences Corporation
- 72: TAMIR, Ilan, BIALAS, Michael R.
- 33: US 31: 62/680,980 32: 2018-06-05

54: REMOVABLE VOLUME INDICATOR FOR SYRINGE

00: -

A volume indicator for a syringe can include an indicator body configured to removably clip onto a syringe body and a window portion extending through a thickness of the indicator body. The volume indicator can include inflation indicia corresponding to a range of expanded diameters for a prosthetic heart valve. The volume indicator can include one or more first engagement elements that correspond to one or more second engagement elements on a syringe.



21: 2020/06633. 22: 2020/10/26. 43: 2021/07/27 51: E21D

71: CHINA UNIVERSITY OF MINING AND TECHNOLOGY

72: REN, YANLONG, YANG, WEIHAO, HUANG, JIAHUI, LI, HAIPENG, YANG, ZHIJIANG, HAN, TAO, ZHANG, TAO, ZHANG, CHI 33: CN 31: 2020104539469 32: 2020-05-26 54: METHOD FOR REPAIRING SHAFT LINING USING FROZEN SOIL CURTAIN 00: -

The present invention discloses a method for repairing a shaft lining using a frozen soil curtain, including: presetting the position of a pressure relief groove, and installing a freezing pipe near the pressure relief groove, wherein the freezing pipe is connected to an external refrigeration station and the refrigeration station provides refrigerant liquid to the freezing pipe to freeze a stratum within a certain range of a corresponding position of the pressure relief groove so as to form a frozen soil curtain, thereby achieving a reliable water sealing effect; and then forming the pressure relief groove under the protection of the frozen soil curtain and installing a compressible layer in the pressure relief groove.



- 21: 2020/06634. 22: 2020/10/26. 43: 2021/07/08 51: G06Q
- 71: Jaco Dippenaar, Kim Liesel Dippenaar

72: Jaco Dippenaar, Kim Liesel Dippenaar 54: A SYSTEM OPERABLE TO ASSIST WITH THE MANAGEMENT OF MEDICAL TRAINING AND/OR COURSES, AND A METHOD OF MANAGING MEDICAL TRAINING AND/OR COURSES 00: -

According to a first aspect of the invention, there is provided a system operable to assist with the management of medical training and/or courses, the system is provided in the example form of a mobile application and/or platform operable to be run on a mobile device, including one or more of the following: a means for one or more user/s to create a profile on said system; a means for a user to upload one or more medically related course/s on said system; a means for a user to register for one or more medically related course/s on said system; a means to notify one or more user/s regarding the requirement for renewal of one or more medically related course/s, in advance of the expiry of said course; and one or more databases, operable to store information related to said one or more medically related course/s and/or said one or more user profiles.



Figure 1

21: 2020/06635. 22: 2020/10/26. 43: 2021/07/08 51: B41N

71: GROBLER, Louw, MAKULU BEEF (PTY) LTD 72: GROBLER. Louw 54: A STENCIL

00: -

A stencil which includes an alignment means for, in use, aligning a target surface underneath the stencil so that cut out indicia of the stencil is positioned relative the target surface for applying indicia in a preferred region of the target surface.



51: B41F 71: CHATURVEDI, Ashok 72: CHATURVEDI, Ashok 33: IN 31: 201811014439 32: 2018-04-16

54: AN APPARATUS AND PROCESS FOR PRINTING WITH TACTILE AND GLITTER EFFECT **ON FLEXIBLE SUBSTRATE AND PRINTED** SUBSTRATE THEREOF 00: -

An apparatus and process for producing multicolour print with tactile and glitter or other effect on a flexible substrate (100, 400A) is disclosed. The rotogravure printing machine includes a plurality of printing stations (402, 404, 406, 408 and 410) and an inline coating station (412). Printing cylinder of at least one of the printing stations is engraved with depth (dl, d2) between 20 microns and 300 microns, to transfer large volume of radiation curable inks mixed with or without glitter. The coating station (412) provides a clear coat of radiation curable coating mixed with or without glitter, at desirable location on the substrate. The gravure or flexography based coating station may apply spot coating or overall coating based on the requirement. At least one of the printing stations and the coating station may include curing unit (422, 424, 426 and 432) for curing the printed ink and applied coating.



21: 2020/06684, 22: 2020/10/27, 43: 2021/07/08 51: C07K

71: Glycotope GmbH, Daiichi Sankyo Co., Ltd. 72: GELLERT, Johanna, FLECHNER, Anke, WEIGELT, Doreen, DANIELCZYK, Antje 33: EP(DE) 31: 18173253.8 32: 2018-05-18 54: ANTI-MUC1 ANTIBODY 00: -

The present disclosure pertains to novel antibodies directed against the cancer antigen MUC1. In particular, an antibody with improved antigen binding was obtained by deleting a glycosylation site in the CDR-H2 of a known anti-MUC1 antibody.

21: 2020/06705, 22: 2020/10/28, 43: 2021/07/08

51: C08G C11D A61K D06M

71: EVONIK OPERATIONS GMBH

72: HENNING, Frauke, PEGGAU, Jörg, LOHSE, Andrea, ZÜNDORFF, Astrid, RADLOFF, Sarah, TRAMBITAS, Alexandra 33: EP 31: 18165408.8 32: 2018-04-03 54: SILOXANES FOR TREATING TEXTILS AND FOR USE IN CLEANING AND CARE FORMULATIONS 00: -

The invention relates to special siloxanes, to compositions which contain these special siloxanes, to methods for producing them, and to the use of these compositions for treating fabrics, in cleaning and care formulations for the household and for industrial applications and in cosmetic, pharmaceutical and dermatological compositions, in particular in cosmetic cleaning and care formulations, hair treatment agents and hair aftertreatment agents, and also for cleaning and care of hard surfaces, preferably for cleaning and care of vehicles, in particular as an additive in drying aids for car washes.

21: 2020/06708. 22: 2020/10/28. 43: 2021/07/09 51: A61Q A61K 71: SAMI LABS LIMITED 72: MAJEED, Muhammed, NAGABHUSHANAM, Kalyanam, MUNDKUR, Lakshmi 33: IN 31: IN201841012637 32: 2018-04-03 54: SKIN CARE COMPOSITIONS AND THEIR APPLICATIONS 00: -

The present invention discloses a synergistic composition comprising 3-O-ethyl-ascorbic acid and tetrahydrocurcuminoids for use as a skin lightening agent. The invention also discloses a method of inhibiting melanin biosynthesis and tyrosinase activity in mammalian skin cells using a composition comprising 3-O-ethyl-ascorbic acid and tetrahydrocurcuminoids.

21: 2020/06711. 22: 2020/10/28. 43: 2021/07/09 51: A47G; D03D 71: GUPTA, Ronak Rajendra 72: GUPTA, Ronak Rajendra 33: IN 31: 201821014302 32: 2018-04-14 54: HIGH THREAD/ YARN COUNT WOVEN TEXTILE FABRIC AND PROCESS OF PREPARATION THEREOF 00: -

The present disclosure provides a high thread/ yarn count textile fabric and a process of preparation

thereof. The textile comprises a plurality of Warps and a plurality of Wefts, wherein Warp comprises a plurality of separable multi-filament Yarns. Each Yarn has a denier in the range of 5 to 30. The textile fabric has a total thread/ yarn count in the range of 300 to 3000 thread/ yarns per inch. Each of the plurality of Warps comprises 250 to 3000 Ends per inch. The present disclosure uses a simple and direct process to achieve good quality textile having a high thread/ yarn count at low production cost.

21: 2020/06725. 22: 2020/10/28. 43: 2021/07/09 51: E21F

71: China University of Mining and Technology 72: SUN, Qiang, ZHANG, Jixiong, SPEARING, A.J.S. (Sam), LI, Meng, GUO, Shijie, ZHOU, Nan 33: CN 31: 201811313339.1 32: 2018-11-06 54: MONITORING SYSTEM FOR BEARING COMPRESSION RATE OF FILLING BODY IN COAL MINE GOAF AND MONITORING METHOD THEREOF

00: -

Provided is a monitoring system for bearing compression rate of filling body (5) in coal mine goaf and a monitoring method thereof, according to the position of the buried depth of a goaf filling body (5), a ground information processing system (1), a ground seismic focus control system (2) and a ground monitoring system (3) are arranged on the ground, wherein shock with certain strength is generated by the ground seismic focus control system (2), and a signal is sent to the filling body (5); according to the difference of the elasticity of the filling body (5) under different compaction degrees, reflected waves (4) received by the ground monitoring system (3) are different, and finally, data is transmitted to the ground information processing system (1) to be processed. After the goaf is filled with the filling body (5), monitoring is started, with the change of time, the filling body (5) is gradually compacted, monitoring is conducted till the thickness of the filling body (5) is not changed any more, and finally, the bearing compression rate of the filling body (5) is calculated through a bearing compression rate formula.



21: 2020/06726. 22: 2020/10/28. 43: 2021/07/09 51: E21F

71: China University of Mining and Technology 72: LI, Meng, ZHANG, Jixiong, HUANG, Peng, ZHANG, Qiang, MENG, Guohao 33: CN 31: 201910246912.X 32: 2019-03-29

54: PRESSED COAL FILLING MINING SYSTEM AND PROCESS FOR END SLOPE OF OPEN PIT 00: -

A pressed coal filling mining system and process for an end slope of an open pit. The mining system comprises a tunneling machine (1), a mechanical arm (12), a filling pump (7), a filling pipeline (5), and a solenoid valve (16). The mining process comprises: tunneling and automatic coal cutting, automatic pipe arrangement, tunnel entrance sealing, automatic pipe filling, and automatic monitoring of tunnel filling. When the tunneling machine (1) performs tunneling and coal cutting, the tunneling machine (1) causes the mechanical arm (12) to extend so as to drive the filling pipeline (5) to move forwards. The filling pipeline (5) is automatically arranged at a bottom end of a side of a tunnel (3). After mining, the tunneling machine (1) moves backwards, and the mechanical arm (12) is separated from the filling pipeline (5), such that the filling pipeline (5) is left in place, and automatic pipe arrangement is achieved. A monitoring pipeline (8) is provided on a flat plate corresponding to the tunnel (3) to be filled. When the tunnel (3) is fully filled with cementing material, the monitoring pipeline (8) sends a signal, and the filling pump (7) stops pumping slurry to the filling pipeline (5) thereby completing tunnel filling, and achieving automatic monitoring of tunnel filling. The process combines a coal mining process employing a cementing filling with a coal mining process employing end slope tunneling, employs an unmanned filling working face

to achieve mining of pressed coal at the end slope of the open pit, and achieves automatic pipe arrangement and automatic monitoring of tunnel filling.



21: 2020/06729. 22: 2020/10/28. 43: 2021/07/08 51: G06Q 71: ZHAO, Shanke, ZHAO, Chunyu

72: ZHAO, Shanke, ZHAO, Chunyu

33: CN 31: 201810364041.7 32: 2018-04-23 54: PAYMENT METHOD AND SYSTEM FOR PLEDGE-PAYABLE ONLINE TRADING 00: -

A payment method and system for pledge-payable online trading. The method comprises the steps of preparing for pledge payment capacity, prompting pledge payment capacity, executing pledge payment capacity and paying for conditional redemption at maturity. The system comprises a seller member end electronic device (1), a seller member communication device (2), a seller member end pledge-payable system (3), a buyer member end electronic device (4), a buyer member communication device (5), a buyer member end pledge-payable system (6), a pledge-payable platform (7) and a pledge-payable platform end pledge-payable system (8), wherein same are connected by means of interconnection networks, such as the Internet. Endowing a pledge-payable electronic coin with a pledge payment function and a bidirectional multilateral guarantee function overcomes defects of the unidirectional unilateral guarantees of electronic cash, cuts off the path to stealing the electronic cash and the path to consumption of stolen electronic property, prolongs the time for collecting the stolen electronic property, and maintains the online trading security and the online payment security.



21: 2020/06759. 22: 2020/10/29. 43: 2021/07/09 51: A01N; A01P; A61K 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: 2020/06769. 22: 2020/10/29. 43: 2021/07/09 51: D21H

71: CATERPILLAR UNDERGROUND MINING PTY. LTD.

72: DOWLING, ALEXANDER E 33: AU 31: 2019272061 32: 2019-11-29 54: BRAKING SYSTEM FOR MACHINE 00: -

A braking system for a machine includes a source of hydraulic fluid and a first valve assembly in fluid communication with the source. The braking system further includes an electro- hydraulic brake booster device. The electro-hydraulic brake booster device includes a second valve assembly in fluid communication with the source and a control module communicably coupled with the second valve assembly. The control module is configured to transmit control signals to the second valve assembly for operating the second valve assembly. The braking system includes at least one brake assembly that is actuated based on fluid pressure received from the source via both the first valve assembly and the second valve assembly. The first valve assembly and the second valve assembly are connected in parallel between the source and each of the at least one brake assembly by selective fluid communication.



- 21: 2020/06792. 22: 2020/10/30. 43: 2021/07/08 51: G06F
- 71: DISCOVERY LIMITED
- 72: HENDRIE, SIMON
- 33: ZA 31: 2019/07203 32: 2019-11-01

54: A COMPUTER IMPLEMENTED SYSTEM AND METHOD OF DETECTING EXERCISE DEVICE FRAUD

00: -

A system and a method of detecting exercise device fraud includes receiving exercise data from different exercise devices which includes an identification of the exercise monitoring device from which the data



is received and workout data of a monitored exercise workout by a user of the exercise monitoring device. The workout data includes at least some of a workout start time, distance, a workout end time and an average heart rate of the user over the duration of the workout. Comparing the workout data from different devices and if they substantially match for two different exercise monitoring devices then generating a possible fraud alert for an operator of the system and creating a link between the two different exercise monitoring devices. Comparing future workout data received from the linked devices to either confirm fraud is occurring by a single user wearing two different exercise monitoring devices for the same workout or not.



21: 2020/06793. 22: 2020/10/30. 43: 2021/07/08 51: G06F 71: DISCOVERY LIMITED 72: HENDRIE, SIMON 33: ZA 31: 2019/07204 32: 2019-11-01

33: ZA 31: 2019/08044 32: 2019-12-04 54: A COMPUTER IMPLEMENTED SYSTEM AND METHOD OF DETECTING STEP COUNTING DEVICE FRAUD

00: -

A system and method for detecting step counter device fraud is provided. The method includes processing step data by a processor operably coupled to a memory to detect an increase in a step rate taken by a user followed by the step rate staying substantially constant at the increased step rate for a period of time exceeding a predefined period of time, and if this is determined to then generate a fraud alert for an operator.



21: 2020/06794. 22: 2020/10/30. 43: 2021/07/08 51: E21D; E21F 71: TITAN MINING (PTY) LTD 72: WHYTE, Shane Rodger 33: ZA 31: 2019/07536 32: 2019-11-14 54: BACKFILL SAFETY BAG 00: -

A safety bag for an underground backfill bag is provided, the backfill bag comprising an open end having a mud inlet connected to a pipe for conveying backfill mud into the backfill bag. The safety bag is positioned proximate the backfill bag, the safety bag having a safety inlet so that, in the event of the backfill bag bursting, the mud exiting the pipe may be redirected into the safety bag via the safety inlet, the safety bag being sized so as to be able to accommodate the full volume of the mud within the pipe when the backfill bag bursts. In an embodiment, the safety bag is rolled (or coiled) when installed, with the safety inlet (i.e. the filling end) facing outwardly so as to be accessible, and a closed end of the safety bag being positioned inside the rolled (i.e. coiled) safety bag.



21: 2020/06806. 22: 2020/10/30. 43: 2021/07/08 51: A01N; A01P 71: UENME GLOBAL PTY LTD 72: ALDER, Robert, TOMLINSON, David 33: AU 31: 2018903970 32: 2018-10-19 33: AU 31: 2019900823 32: 2019-03-13 54: USE OF COMPOSITION AS A GROWTH PROMOTANT FOR PLANTS 00: -

A method of promoting the growth of a plant comprising the application of an effective amount of 1,3,5-Triazinane-2,4,6-Trithione (TMT) to the plant. Particularly, the TMT is in an aqueous solution in a concentration range of 0.01% w/v to 0.1% w/v. In one embodiment the aqueous solution is applied to the plant by foliar spray. In another embodiment aqueous solution containing the TMT is mixed with zeolite

21: 2020/06868. 22: 2020/11/04. 43: 2021/08/04 51: H01F

71: GRIREM ADVANCED MATERIALS CO., LTD., GRIREM HI TECH CO., LTD.

72: LUO, Yang, WANG, Zhongkai, YANG, Yuanfei, WANG, Zilong, YU, Dunbo, LIAO, Yifan, XIE, Jiajun, HU, Zhou

33: CN 31: CN201911076249.X 32: 2019-11-06 54: AN ANISOTROPIC BONDED MAGNETIC POWDER AND A PREPARATION METHOD THEREOF

00: -

The invention discloses an anisotropic bonded magnetic powder and a preparation method thereof. The anisotropic bonded magnetic powder has a general formula of R1R2TB, wherein R1 is a rare earth element containing Nd or PrNd, R2 is one or two of La and Ce, T is a transitional element, and B is boron. The preparation method includes the steps of smelting the master alloy to prepare ingot(s), preparing a rare earth hydride of formula R1TBHX, preparing a hydride diffusion source of formula R1R2THX, mixing, heat treating, and high-vacuum dehydrogenating, to obtain the anisotropic bonded magnetic powder. The invention uses La and Ce hydrides as the diffusion source, can save cost, remove hydrogen from the diffusion source at a lower dehydrogenation temperature, avoid crystal grain growth at a high temperature, and ensure the quality of the product.

21: 2020/06869. 22: 2020/11/04. 43: 2021/08/04 51: H01F

71: GRIREM ADVANCED MATERIALS CO., LTD., GRIREM HI-TECH CO., LTD.

72: LUO, Yang, WANG, Zilong, YANG, Yuanfei, HU, Zhou, YU, Dunbo, XIE, Jiajun, LIAO, Yifan, WANG, Zhongkai

33: CN 31: CN201911076252.1 32: 2019-11-06 54: A PREPARATION METHOD OF A RARE EARTH ANISOTROPIC BONDED MAGNETIC POWDER

00: -

A method for preparing a rare earth anisotropic bonded magnetic powder, comprises the following steps: (1) preparing raw powder with RTBH as the main component, wherein, R is Nd or Pr/Nd, and T is a transition metal containing Fe; (2) adding La/Ce hydride and copper powder to the raw powder to form a mixture; (3) subjecting the mixture to atmosphere diffusion heat treatment to give the rare earth anisotropic bonded magnetic powder. The invention selects high-abundance rare earth elements La, Ce to replace Dy, Tb, Nd, Pr and other medium and heavy rare earth elements, which can achieve the same coercivity improvement effect while also significantly reducing the cost, thereby achieving efficient application of low-cost and highabundance rare earths.

21: 2020/06870. 22: 2020/11/04. 43: 2021/08/04 51: H01F

71: GRIREM ADVANCED MATERIALS CO., LTD., GRIREM HI TECH CO., LTD.

72: LUO, Yang, WANG, Zilong, YANG, Yuanfei, YU, Dunbo, LIAO, Yifan, XIE, Jiajun, WANG, Zhongkai, HU, Zhou

33: CN 31: CN201911076255.5 32: 2019-11-06 54: A COMPOSITE RARE EARTH ANISOTROPIC BONDED MAGNET AND A PREPARATION METHOD THEREOF

00: -

The invention discloses a composite rare earth anisotropic bonded magnet and a preparation method thereof. The composite rare earth anisotropic bonded magnet comprises a Nd-Fe-B magnetic powder, a Sm-Fe-N magnetic powder, a binder and an inorganic nano-dispersant. The preparation method comprises steps of preparing a Nd-Fe-B magnetic powder by a HDDR method, preparing a Sm-Fe-N magnetic powder by a powder metallurgy method, mixing the Nd-Fe-B magnetic powder, the Sm-Fe-N magnetic powder, the binder and the inorganic nano-dispersant at a specific ratio to finally obtain the composite rare earth anisotropic bonded magnet. The invention, by adding an inorganic nano-dispersant, enables the full dispersion of the fine Sm-Fe-N powder during the mixing process of the binder, the Nd-Fe-B magnetic powder and the Sm-Fe-N powder, and thus makes the fine Sm-Fe-N powder and the binder evenly coated on the surface of the anisotropic Nd-Fe-B magnetic powder, which can further improve the comprehensive magnetic performance, density and microstructure homogeneity of the composite magnet.



21: 2020/06884. 22: 2020/11/04. 43: 2021/08/06 51: E21C 71: SUHUA LIU 72: LIU, Suhua

33: CN 31: 201810411552.X 32: 2018-05-02 33: CN 31: 201910253493.2 32: 2019-03-29 54: RECIPROCATING IMPACT BEVEL DISCHARGING SHOVEL OF RECIPROCATING IMPACT MINING MACHINE 00: -

A reciprocating impact bevel discharging shovel of a reciprocating impact mining machine, comprising a reciprocating impact box and a reciprocating impact bevel discharging shovel (1). The reciprocating impact box included a reciprocating impact box body (3), a reciprocating impact power element, and a reciprocating impact guide element (2). The reciprocating impact power element is provided in the reciprocating impact box body (3), and is supported by the reciprocating impact box body (3) to drive the reciprocating impact guide element (2). One end or both ends of the reciprocating impact guide element (2) extend out of the reciprocating impact box body (3). The reciprocating impact bevel discharging shovel (1) included a main gear base (5), main impact gears (4), a side discharging gear wing plate (6), and side discharging bevels (7). The main gear base (5) is provided at the end portion of the reciprocating impact guide element (2) extending out of the reciprocating impact box body (3). The main impact gears (4) are provided at the top of the main gear base (5). The thickness of the side discharging gear wing plate (6) is less than that of the main gear base (5) to reduce the height of a discharging surface of the reciprocating impact bevel discharging shovel (1). The side discharging bevels (7) are alternately or symmetrically provided or sequentially provided on the side discharging gear wing plate (6). The tops of the side discharging bevels (7) extend out of a plane of one side of the side discharging gear wing plate (6), so that the impacted materials are discharged from a gap where the side discharging bevels (7) are higher than the side discharging gear wing plate (6),



21: 2020/06924. 22: 2020/11/06. 43: 2021/08/04 51: C10G

71: INDIAN OIL CORPORATION LIMITED 72: MUKTHIYAR, Sadhullah, SAIDULU, Gadari, BHUYAN, Manoj Kumar, GUPTA, Kamlesh, SAU, Madhusudan, KAPUR, Gurpreet Singh, RAMAKUMAR, Sankara Sri Venkata 33: IN 31: 201921045807 32: 2019-11-11 54: A PROCESS FOR PRODUCING HYDROGEN AND LIGHT OLEFINS FROM RESID FLUID CATALYTIC CRACKING 00: -

The present invention relates to a process for production of high yield of hydrogen by carrying out the dry reforming of the dry gas generated from the process itself by utilizing the same catalyst for cracking and producing high yield of light olefins such as ethylene, propylene and butylenes from residue feedstocks.



21: 2020/06929. 22: 2020/11/06. 43: 2021/08/06 51: A01H; A01N; C12N; G01N; G06K 71: INSTITUTE OF FRUIT TREE RESEARCH, GUANGDONG ACADEMY OF AGRICULTURAL SCIENCES

72: WU, Yuanli, HUANG, Bingzhi, YANG, Xingyu, XU, Linbing, HU, Lingyu

33: CN 31: 201911079667.4 32: 2019-11-07 54: METHOD FOR EVALUATING FUSARIUM WILT RESISTANCE IN BANANA 00: -

Disclosed is a method for evaluating Fusarium wilt resistance in banana, which belongs to the technical field of agriculture-plant protection. Different from the field identification method and the artificial inoculation identification method at seedling stage, the method for in vitro inoculation identification of rooted banana plantlet is: inoculating Fusarium

oxysporum f. sp. cubense (Foc) to the basal part of rooted plantlets under aseptic conditions, and then conducting resistance identification according to the disease grades of 1-6. In view of the nonlinearity of the disease grades in disease severity, Logistic regression analysis is applied to build the model and predict the probability values of disease grades, and then the resistances of the banana cultivars are further divided into 5 categories: highly resistant, resistant, moderately resistant, susceptible, and highly susceptible.

21: 2020/06932. 22: 2020/11/06. 43: 2021/08/06 51: B01J; C07C 71: LUMMUS TECHNOLOGY, LLC 72: LIU, Zan, LOEZOS, Peter, MEDINA, Jackeline, LEMOINE, Romain 33: US 31: 62/667,023 32: 2018-05-04 54: REVERSE ACID AND HYDROCARBON CASCADING IN ALKYLATION 00: -

A cascade reactor scheme with acid and hydrocarbon flowing in reverse directions. The systems and processes for alkylation of olefins herein may include providing a first olefin to a first alkylation zone, and a second olefin to a second alkylation zone. Isoparaffin may be provided to the first alkylation zone. The isoparaffin and first olefin may be contacted with a partially spent sulfuric acid in the first alkylation zone to form a spent acid phase and a first hydrocarbon phase including alkylate and unreacted isoparaffin. The first hydrocarbon phase and second olefin may be contacted with a sulfuric acid feed in the second alkylation zone to form a second hydrocarbon phase, also including alkylate and unreacted isoparaffin, and the partially spent sulfuric acid that is fed to the first alkylation zone. Further, the second hydrocarbon phase may be separated, recovering an isoparaffin fraction and an alkylate product fraction.



21: 2020/06941. 22: 2020/11/06. 43: 2021/08/04 51: B01D 71: DUBY, Sean R. 72: DUBY, Sean R. 33: US 31: 62/656,228 32: 2018-04-11 54: DISCHARGE FILTER PLATE ASSEMBLY FOR FILTER PRESS 00: -

A filter plate assembly for a filter press is provided. The filter plate assembly includes at least a first filter plate and a second filter plate, which cooperate to define a filter chamber when the first filter plate and the second filter plate are in a filtering position. At least one of the first filter plate and the second filter plate is movable from the filtering position to a discharge position in which a filter cake can be discharged. In other configurations, the filter plate assembly can include a first filter plate, a second filter plate and a center filter plate or frame, which cooperate to define a filter chamber. The center filter plate or frame is movable from a filtering position to a discharge position.



21: 2020/06954. 22: 2020/11/09. 43: 2021/08/06 51: C07D

71: YICHUN DAHAIGUI LIFE SCIENCE CO., LTD. 72: WEI, Guohua, SUN, Haihui, XIE, Gang, XIONG, Zhihua, PENG, Lili, LIAO, Yingjun, ZHANG, Wenliang, OUYANG, Zhengjie 33: CN 31: 201810429190.7 32: 2018-05-07

54: METHOD FOR EXTRACTING NATURAL VITAMIN E FROM DEODORIZED DISTILLATE OF RICE BRAN OIL

00: -

The present invention relates to the technical field of biochemical extraction, and specifically provides a method for extracting natural vitamin E from a deodorized distillate of a rice bran oil. The method comprises firstly removing most free fatty acid in a deodorized distillate of rice bran oil by using high vacuum rectification to reduce the amount to be treated in subsequent enzymatic esterification, then converting, by means of a lipase, the remaining components, such as the free fatty acid, triglyceride and sterol ester, in the deodorized distillate of the rice bran oil, which has been subjected to high vacuum rectification, into components such as fatty acid monoesters, glycerinum and free phytosterol, and finally extracting the natural vitamin E derived from prepared rice bran oil by means of a molecular distillation technique. The method has a simple process, is green and environmentally friendly, the quality of the product thereof is good, in particular, the content and yield of tocotrienols is high, and has

a bright industrial application prospect both in terms of production process and production cost.

21: 2020/06980. 22: 2020/11/10. 43: 2021/08/12 51: A01K 71: Jacques Schoeman

72: Jacques Schoeman 54: A SYSTEM FOR AND A METHOD OF COLLECTING HONEYCOMB 00: -

According to a first aspect of the invention, there is provided a system for collecting honeycomb, said system including one or more of the following: a housing member operable to be slidably inserted into a super wherein said housing member includes one or more rack/s and one or more receptacle/s.In an embodiment of the invention, said one or more rack/s comprise of a first and second end wherein said second end is narrower than said first end for a honeybee to enter said super, in use. In this embodiment, said one or more rack/s further comprise of one or more rails and grooves operable to allow for said one or more receptacle/s to be slidably inserted into said one or more rack/s, in use. In this embodiment, each receptacle contains an inner cavity. In this embodiment, the inner cavity of said receptacle is operable to have honeybees bond large quantities of wax for the formation of honeycomb, in use.



21: 2020/07014. 22: 2020/11/11. 43: 2021/07/23 51: G01N B03B G21K C22B G01T

71: OUTOTEC (FINLAND) OY

72: KOSKINEN, Tommi, PELLI, Antti, SIPILÄ, Heikki 54: X-RAY FLUORESCENCE ANALYZER WITH A PLURALITY OF MEASUREMENT CHANNELS, 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, 1501) is located in a first direction from said slurry handling unit (201). It comprises a first crystal (603, 1502) and a first radiation detector (602, 1505) configured to detect fluorescent X-rays diffracted by said first crystal (603, 1502) at a first energy resolution. A second crystal diffractor (1511) is located in a second direction from said slurry handling unit (201). It comprises a second crystal (1512) and a second radiation detector (1515) configured to detect fluorescent X-rays diffracted by said second crystal (1512) at a second energy resolution. Said first crystal (603, 1502) is a pyrolytic graphite crystal, said second crystal (1512) is of a material other than pyrolytic graphite, and said first and second crystal diffractors are configured to direct to their respective radiation detectors characteristic fluorescent radiation of a same element.



21: 2020/07124. 22: 2020/11/16. 43: 2021/07/29 51: A01G 71: VAN BUUREN, Eugene 72: VAN BUUREN, Eugene 33: ZA 31: 2018/02955 32: 2018-05-07 54: HYDROPONICS 00: -

The invention provides a planter arrangement for hydroponics. The planter arrangement includes a

plurality of plant containers arranged side by side, circumferentially about a central axis to define a circular configuration of plant containers. The invention further provides a vertical planter which includes at least two planter arrangements which are stacked in a vertical series such that outlets of plant containers in an upper planter arrangement direct liquid into inlets of plant containers in a lower planter arrangement.



21: 2020/07153. 22: 2020/11/17. 43: 2021/07/30 51: A23L; C12G; C12N

71: FUJIAN AGRICULTURE AND FORESTRY UNIVERSITY

72: HUANG, Zhiwei, ZHANG, Yaru, ZHU, Yihan, CHENG, Zuxin

54: METHOD FOR IMPROVING CONTENT OF MONACOLIN K IN RED YEAST RICE 00: -

The present invention discloses a method for improving content of Monacolin K in red yeast rice. Specifically, the method uses a screened monascus strain FG-8 that has a high yield of Monacolin K and has no production of citrinin for fermentation with milled rice of the rice variety "Jiazhou red rice" as a substrate to obtain Monacolin K-rich red yeast rice. The method for preparing the red yeast rice is simple, and the Monacolin K content as detected under the optimum fermentation conditions is 4.64 mg/g, which is about 8.30 times greater than that of the commercially available Gutian red yeast rice, and no citrinin is detectable.

21: 2020/07190. 22: 2020/11/18. 43: 2021/07/23 51: C04B

71: TONGDA REFRACTORY TECHNOLOGIES CO., LTD.

72: ZHANG, Haibo, GAO, Changhe, ZHANG, Kangkang, HAO, Rui, ZHAO, Chunyan, LI, Yanjing, CHEN, Maofeng, WEN, Ruliang

33: CN 31: 201811266655.8 32: 2018-10-26 54: PREPARATION METHOD FOR TITANIUM COMPOSITE ANTI-EROSION WEAR-RESISTANT REFRACTORY CASTABLE

00: -

A preparation method for a titanium composite antierosion wear-resistant refractory castable, belonging to the technical field of refractory castables. The main raw materials comprise titanium calcium aluminate, 80 bauxite clinker, white corundum powder, silica fume, MS1250 fine powder and pure calcium aluminate cement, and the refractory castable also comprises, as a percentage of the total weight, 0.01%-0.5% of explosion-proof fibres, 0.01%-0.5% of sodium tripolyphosphate and 0.01%-0.5% of citric acid. The materials are sorted, mixed evenly and bagged, and when used, poured into a strong stirrer for even mixing and, with the addition of 6-6.5wt% of water, stirred into a castable refractory castable. The advantages of the present invention are that the performance of the prepared titanium composite anti-erosion wear-resistant refractory castable is superior to that of traditional aluminum-silicon refractory castables for cement kilns, the strength is high, the change rate on heating is low, the wear resistance value is less than 5cm3, and the alkali resistance is first grade.

21: 2020/07219. 22: 2020/11/19. 43: 2021/07/23 51: F24D, E03B, E03C 71: DILIGENT BUSINESS SERVICES LIMITED 72: BAYMAN, KAREN, BAYMAN, STEPHEN, BAYMAN, TYRONE 33: NZ 31: 765649 32: 2020-06-30 54: WATER SAVING SYSTEMS 00: -

This invention concerns a water saving apparatus typically forming part of a domestic water reticulation system. The apparatus includes an inlet that is connectable to a hot water conduit, a first outlet connectable to a hot water tap supply conduit and a second outlet connectable to a cold water supply conduit. A valve means is fluidly connected between the inlet and the first and second outlets. The apparatus further includes a temperature sensor provided to sense an inlet temperature of water at the inlet and control a controller that is configured to operate the valve means to direct water from the inlet to the first outlet when the sensed temperature is above a set point temperature, and direct water from the inlet to the second outlet when the sensed temperature is below the set point temperature. The invention also concerns a method of saving water as a water saving system including one or more of the water savings apparatuses.



21: 2020/07252. 22: 2020/11/20. 43: 2021/07/23 51: B65D 71: J & J GREEN PAPER, INC 72: SEGAL, Michael, Scott 33: US 31: 62/659,186 32: 2018-04-20 33: US 31: 16/191,426 32: 2018-11-14 54: RECYCLABLE COMPOSITION FOR WATERPROOFING PAPER UTILIZING PLANT DERIVED WAXES, AND PELLETS UTILIZING SAID COMPOSITION 00: -

A composition that includes plant derived wax having a melting point of at least 70 °C can be used to waterproof cellulose based materials like paper and board. Suitable waxes include sugarcane wax and rice-bran wax. A surfactant such as stearic acid improves the adhesion of the composition to the underlying material. The resulting waterproof laminate can be economically recycled. Hot beverage cups made from the laminate are

waterproof and recyclable without first being separated into components. Coffee pods and drinking straws that are waterproof and recyclable are manufactured with the waterproof laminate.



21: 2020/07253. 22: 2020/11/20. 43: 2021/07/23 51: G01D; G01F; G07F

71: MUCHEM LIMITED

72: BREYTENBACH, Gerhard Magnus, DE KOCK, Wouter, GIBSON, Ryan, JOUBERT, Jan Gerhardus 33: ZA 31: 2018/03128 32: 2018-05-14 54: PREPAID WATER MANAGEMENT SYSTEM

AND METHOD

00: -

A prepaid water management system is disclosed, comprising a smart valve controller fitted to a water carrying conduit, the smart valve controller accommodating a valve to control the flow of water through the conduit and including a first wireless communications module; a water meter to measure the water flow volume through the water carrying conduit, the water meter including a second wireless communications module; and a user interface to allow a user to view data regarding water use and to enter purchased water credits, the user interface including a third wireless communications module, thereby allowing the smart valve controller to communicate with both the water meter and the user interface wirelessly. The smart valve controller comprises a control unit to control the valve and a

credit monitoring module that updates the water credit available to the user.



- 21: 2020/07272. 22: 2020/11/23. 43: 2021/08/05 51: H02K; H02N
- 71: Hugh Neville GLENISTER
- 72: Hugh Neville GLENISTER
- 33: ZA 31: 2019/06842 32: 2019-10-17

54: ENERGY ARRANGEMENT

00: -

The invention discloses an energy arrangement, which includes hurricane taming means adapted to convert the energy of a hurricane into useful energy. The hurricane is artificially created. The arrangement includes the following components: synthesized earth atmosphere, centrifugal fan means, hot heat exchanger, insulation means, hot supply circulator means, coriolis circulator means, energy storage vessel, energy absorber means, cold circulator means, cold heat exchanger, water well, heat exchanger, alternator/generator/machinery means, and/or a UV source.



21: 2020/07316. 22: 2020/11/24. 43: 2021/07/22 51: C08K

71: CarbonX IP 4 B.V.

72: VAN RAALTEN, Rutger Alexander David, SORDI, Daniela

33: EP(NL) 31: 18174407.9 32: 2018-05-25 54: USE OF CARBON-NANOFIBRES COMPRISING CARBON NETWORKS 00: -

The invention pertains to the use of porous, chemically interconnected, carbon-nanofibrecomprising carbon networks for reinforcing elastomers. It has been found that said carbonnanofibre-comprising carbon networks can beneficially be used when added in an amount of 10-120 phr to an elastomer, in particular to styrenebutadiene rubber (SBR). The benefits include lower tan delta at 60 °C (rolling resistance), higher tan delta at 0 °C (wet grip), better abrasion resistance, higher flexibility and lower stiffness. The reinforced elastomers can be used in many areas of technology such as tyres, conveyor belts, hoses, etc.

21: 2020/07335. 22: 2020/11/25. 43: 2021/07/22 51: E21B

71: CATERPILLAR GLOBAL MINING EQUIPMENT LLC

72: GUNDA, RAJESH R, MOBERG, CARL J, HOULT, ROSS L

33: US 31: 16/713,749 32: 2019-12-13 54: AUTOMATIC FORCE ADJUSTMENT CONTROL SYSTEM FOR MOBILE DRILLING MACHINES 00: -

Disclosed is an automatic force adjustment control system (200) for mobile drilling machines (10) and methods for automatically adjusting a force on a down-the-hole drill bit (30) of a drill string (28) of a mobile drilling machine (10). A method may include: monitoring bit air pressure of the down-the-hole drill bit (30) during an automatic down-the-hole drilling operation; and automatically adjusting a force provided to the drill string (28) based on the monitored bit air pressure so that the bit air pressure approaches a target air pressure value.

71: KERR, STEVEN JOHN 72: KERR, STEVEN JOHN 54: A SUPPORT DEVICE 00: -

A support device including a rigid member sized, shaped and configured to engage a lumbar region (not shown) of a spine (not shown) of a person and end regions of the rigid member being configured to engage a portion of a waist (not shown) of the person to further facilitate support of the spine (not shown), a fastening means for fastening the rigid member to the lumbar region (not shown) of the spine (not shown) or waist (not shown) to inhibit displacement of the rigid member relative the spine (not shown) or waist (not shown), and a retaining means for retaining the fastening means on the rigid member to inhibit relative displacement thereof.

^{21: 2020/07336. 22: 2020/11/25. 43: 2021/07/22} 51: A47L



21: 2020/07348. 22: 2020/11/25. 43: 2021/07/23 51: A61K

71: SAMI LABS LIMITED

72: MAJEED, Muhammed, NAGABHUSHANAM, Kalyanam, MAJEED, Shaheen, MUNDKUR, Lakshmi, ARUMUGAM, Sivakumar, PANDE, Anurag, ALI, Furqan

33: US 31: 62/664,354 32: 2018-04-30

54: MODULATION OF IMMUNE FUNCTION BY BACILLUS COAGULANS

00: -

The present invention discloses a composition comprising heat inactivated spores and/or comprising heat inactivated vegetative cells of probiotic bacteria Bacillus coagulans, and a process for preparing the same. The invention also discloses a method of modulating immune function in mammals by activating macrophages, using a composition comprising Bacillus coagulans in the form of live or heat inactivated spore and/or vegetative cells.

21: 2020/07352. 22: 2020/11/25. 43: 2021/07/23 51: A01G 71: FENO S.R.L. 72: KANEPPELE, Reinhard, CURTI, Ernesto, OBERHOFER, Hermann, RAUTSCHER, Paul, WERTH, Karl 33: IT 31: 102018000004881 32: 2018-04-26

54: GROWING METHOD OF FRUIT TREES AND ASSOCIATED TREE 00: -

A method for the production of fruit trees (2) including the steps of: grafting of an offshoot (8) or propagation material of the variety to be propagated on a grafting point of a rootstock (6), to form a tree, planting of the rootstock in a nursery, pot or greenhouse ground and subsequent transplanting of the developed tree in a production ground; wherein the planting takes place arranging the rootstock (6) tilted to one side to form with the ground an angle of pre-set amplitude, smaller than 90° and preferably of 45° and with the offshoot (8) in a substantially vertical position; in the transplanting step the rootstock (6) is arranged in the production ground in a substantially vertical position, so that the trunk (11) of the tree, which is angled in respect to the rootstock, forms a main side branch from which vinelike branches or side branches (19) orientated upwards sprout.



- 21: 2020/07354. 22: 2020/11/25. 43: 2021/07/22
- 51: A61K; A61Q
- 71: Avon Products, Inc.
- 72: HUTSON, Ashley L., HUANG, Gloria
- 33: US 31: 62/683,954 32: 2018-06-12

54: COMPOSITIONS WITH INCREASED COLOR SHADE STABILITY

00: -

The present invention provides compositions with increased color shade stability comprising organic pigments and rutile TiO2. The combination of specific ingredients disclosed herein prevents the color migration often associated with organic pigments including azo based dyes and lakes.

21: 2020/07355. 22: 2020/11/25. 43: 2021/07/22

51: B32B; C10L

71: Huntsman Petrochemical LLC

72: ZHAO, Haibo

33: US 31: 62/682,195 32: 2018-06-08

54: ALKOXYLATED ALKYL AMINE POLYESTERS AS POUR POINT DEPRESSANTS FOR FUELS 00: -

The present disclosure provides a pour point dispersant composition comprising an alkoxylated alkyl amine polyester. The pour point depressant composition may optionally be combined with a solvent and added to a hydrocarbon composition to improve the cold-flow properties of the hydrocarbon composition.

21: 2020/07375. 22: 2020/11/26. 43: 2021/07/22 51: A62B 71: YANG, Chin-Lung

72: YANG, Chin-Lung

33: TW 31: 108215793 32: 2019-11-28 54: FACE MASK WITH SUPPORTING STRIP 00: -

A face mask has a mask body (10), at least one supporting strip (20), and two ear loops (30). The mask body (10) has a top edge (101) and a bottom edge (102) disposed opposite each other, and has two lateral edges (103) disposed opposite each other. The at least one supporting strip (20) is elongated, is bendable, is disposed at a middle position on the mask body (10), and extends toward the two lateral edges (103). The two ear loops (30) are respectively connected to the two lateral edges (103) of the mask body (10). The at least one supporting strip (20) holds up the mask body (10) to form a space (S) between the mask body (10) and the wearer's face.



21: 2020/07378. 22: 2020/11/26. 43: 2021/07/22 51: G06F; B60W

71: CATERPILLAR INC.

72: KURAS, BRIAN, ARIDA, TONY, GARNETT, MATTHEW, PUSCH, THOMAS G, COWPER, LANCE

33: US 31: 16/717,470 32: 2019-12-17 54: CONTROL OF AN ENGINE FOR A MACHINE WITH A DUAL PATH POWERTRAIN 00: -

An electronic control unit (210) to control an engine control module of an engine (110) is disclosed. The electronic control unit (210) may receive a machine input associated with the engine (110). The electronic control unit (210) may select, based on the machine input, a lug mapping from a plurality of lug mappings for controlling a load of the engine (110). The electronic control unit (210) may control, using the lug mapping, power output of the engine (110) and power to a propulsion module (230) of the machine (100) to satisfy a drawbar power/torque threshold and steering power torque threshold associated with the machine (100).

33: EP(DE) 31: 18382295.6 32: 2018-04-27 54: METHOD FOR DISTINGUISHING A REAL THREE-DIMENSIONAL OBJECT FROM A TWO-DIMENSIONAL SPOOF OF THE REAL OBJECT 00: -

A method for distinguishing a real three-dimensional object, like a finger of a hand, from a two-

^{21: 2020/07383. 22: 2020/11/26. 43: 2021/07/22}

^{51:} G06K

^{71:} Identy Inc.

^{72:} ARAGON, Jesus

dimensional spoof of the real object, the method comprising: obtaining, by an optical sensor of a mobile device, an image, wherein the image contains either the spoof or the real object; providing the image to a neural network; processing the image by the neural network; wherein processing comprises calculating at least one of: a distance map representative of the distance of a plurality of pixels to the optical sensor, the pixels constituting at least a portion of the object within the image; a reflection pattern representative of light reflection associated with a plurality of pixels constituting at least a portion of the object within the image; and wherein processing further comprises comparing at least one of the calculated distance map or the calculated reflection pattern with a learned distance map or a learned reflection pattern, thereby determining, based on an outcome of the comparison, that the image contains either the spoof or the real object.

-101 Take the image by optical sensor -102 Provide the image to the neural network -103 Process the image by the neural network -131 -133 Calculate distance Calculate reflection map pattern -132 -134 Compare calculated Compare calculated distance map to reflection pattern to learned distance learned reflection map pattern -104 Determine that the image contains a spoof or the real object

21: 2020/07385. 22: 2020/11/26. 43: 2021/07/22 51: A61B; F16F

71: Texas Scottish Rite Hospital for Children 72: SAMCHUKOV, Mikhail L., ROSS, John D., CHERKASHIN, Alexander M.

33: US 31: 15/994,829 32: 2018-05-31 54: IMPROVED ORTHOPEDIC SPRING HINGE SYSTEM AND METHODS THEREOF 00: -

A device, kit, and method for the treatment of anatomical joint dysfunctions, and more particularly, to a spring hinge comprising: a primary coil spring having a helical structure with a central cavity, wherein the primary coil spring forms a plurality of spirals layered against one another when the primary coil spring is in an unexpanded state; wherein the primary coil spring comprises surfaces that are configured to nest against each other to resist translational or shearing movement between adjoining spiral layers.



21: 2020/07389. 22: 2020/11/26. 43: 2021/07/22 51: A47C; B68G

71: L&P Property Management Company

72: LISENBEE, Kyle S., RICHMOND, Darrell A.

33: US 31: 16/018,646 32: 2018-06-26

54: POCKETED SPRING COMFORT LAYER HAVING AT LEAST ONE FOAM LAYER AND METHOD OF MAKING SAME 00: -

A pocketed spring comfort layer (16, 50, 216, 56, 56', 16a, 56a, 132, 140) for a bedding or seating product (10, 60) has pockets (44, 244, 84, 84', 44a, 84a) characterized by the individual mini coil springs (28) of the comfort layer being pocketed with between at least one cushion assembly (22, 64) and a sheet of polypropylene fabric (24, 66). Each cushion assembly (22, 64) includes at least one foam layer (29, 67). A segmented seam joins the
cushion assembly (22, 64) and the sheet of polypropylene fabric (24, 66) around each of the mini coil springs (28) of the pocketed spring comfort layer. The method of making the pocketed spring comfort layer includes compressing the mini coil springs (28) and creating pockets (44, 244, 84, 84', 44a, 84a) with a welding horn (32, 72, 32a, 72a) and an anvil (74, 74a, 42, 42a).



21: 2020/07400. 22: 2020/11/27. 43: 2021/07/22

51: G06F; G06K; H04N

71: International Business Machines Corporation
72: GRITZMAN, Ashley D., KURIEN, Toby, KHAN, Naweed Aghmad, AKHALWAYA, Ismael,
WELDEMARIAM, Komminist
33: US 31: 16/699,458 32: 2019-11-29
54: MEDIA STREAM DELIVERY
00: -

A media stream is delivered to a searcher by identifying a desirable emotional state for the searcher; identifying a current emotional state of the searcher; and estimating a target emotional trajectory that begins with the current emotional state and concludes with the desirable emotional state. Then the target emotional trajectory is matched to an aggregate emotional trajectory of the media stream; the media stream is recommended to the searcher in response to the matching; and a bit stream of the media stream is rendered to the searcher in response to the searcher's acceptance of the recommendation.



- 21: 2020/07409. 22: 2020/11/27. 43: 2021/07/22 51: A61F
- 71: CHRONOTECH (PTY) LTD
- 72: SMIT, Nicolaas Hendrik
- 33: ZA 31: 2018/03406 32: 2018-05-23

54: EARPLUGS WITH CORD

00: -

The invention provides a moulded earplug set (300) which includes two earplugs (302, 304) each having a stem (332, 334) with a cord or lanyard (306) extending between the stems to connect the earplugs together. The cord may be integrally moulded with the earplugs and extend laterally from the stem of each. The sides of the cord may adjoin to form a generally planar cord body (72) and may be defined by sulcations in the cord body. The set may include an integrally moulded storage container (308) for the earplugs, comprising two cap formations (314, 316) separated by a hinge (322). An integrally moulded strap (310) may be provided to permit the cap formations to be locked in a closed condition abutting each other. The set may include frangible bridge formations (342) connecting the

earplugs to the cord body. Each earplug may include a grip defining a plurality of indentations.



21: 2020/07420. 22: 2020/11/27. 43: 2021/07/22 51: G01N

71: F. Hoffmann-La Roche AG

72: BERG, Max, KLEIN, Timo

33: EP(CH) 31: 18176998.5 32: 2018-06-11 54: A CALIBRATION METHOD FOR CALIBRATING A CAMERA OF A MOBILE DEVICE FOR DETECTING AN ANALYTE IN A SAMPLE

00: -

A calibration method (110) for calibrating a camera (112) of a mobile device (114) for detecting an analyte in a sample is disclosed. The method comprising: a)(118) capturing at least one image of at least one object (116) by using the camera (112), wherein during said capturing an illumination source (120) of the mobile device (114) is turned on; b) (122) determining from the image captured in step a) at least one first area (124) in the image which is affected by direct reflection of light originating from the illumination source (120) and being reflected by the object (116); and c)(126) determining at least one second area (128) in the image which essentially does not overlap with the first area (124) and returning the second area (128) as a target area (130) for the location of a test field (132) of a test strip (134) in a subsequent detection step.



21: 2020/07434. 22: 2020/11/30. 43: 2021/07/22 51: H01B; H02G 71: ABERDARE CABLES (PTY) LTD 72: SCHOLTZ, Hendrik Paul 33: ZA 31: 2019/08337 32: 2019-12-13 54: LOW AND MEDIUM VOLTAGE ELECTRICAL CABLES 00: -

A sheathed flexible electrical cable (10, 50) includes at least one conductor core (12) comprising a flexible, (bunched or stranded) aluminium alloy electrical conductor, with the conductor core (12) complying with the physical construction requirements contained in the International Electrotechnical Commission Standard 60228 for Class 5 or Class 6 conductors. A conductor insulating sleeve (16) covers the conductor core (12) to render the conductor core (12) insulated and the insulated conductor core (12) is located within a sheath (28).



21: 2020/07435. 22: 2020/11/30. 43: 2021/07/22 51: H01M

71: METINDUSTRIAL (PTY) LIMITED - trading through its Division First National Battery 72: DU PREEZ, Anthony Paul, BURTON, Adrian, KRETZMANN, Garnet Dudley, GOLIATH, Clint Rogen

33: ZA 31: 2019/08040 32: 2019-12-04 54: BATTERY COVER WITH TAMPER PROOF COVER STRIP

00: -

Disclosed is a cover for a lead acid battery, the cover comprising a main lid that is shaped and configured to be locatable over and to close a battery casing operatively containing a set of electrodes and acid, with positive and negative terminals extending from the main lid for electrical connection to the battery, and with the main lid including vent holes that are closable by means of complimentary shaped and sized vent plugs within the main lid; the main lid including a cover strip located over the vent holes and vent plugs located therein, and being secured to the main lid by means of a plurality of locating pins.



21: 2020/07437. 22: 2020/11/30. 43: 2021/08/04 51: H01M

71: METINDUSTRIAL (PTY) LIMITED - trading through its Division First National Battery
72: DU PREEZ, Anthony Paul, BURTON, Adrian
33: ZA 31: 2019/08041 32: 2019-12-04
54: LEAD ACID BATTERY CONNECTION LUG CONFIGURATION AND APPARATUS
00: -

There is disclosed a lug for a connection between an electrode plate and a cast-on-strap of a VRLA battery, the lug including a stem that extends from a base associated with an electrode plate, with the stem operatively at pleats partly embedded in a cast on strap after its assembly, with the stem including two bends, with a first bend formed in the stem at a first distance from its base, with the first distance being predetermined to operatively locate the first bend in a space between an upper extremity of a plate adjacent the plate associated with the lug and the operatively lower surface of the cast on strap; and with a second bend formed in the stem at distance from its base that is greater that the first distance; operatively to position the free end of the lug inward of the outer surface of the outer plate to enable it to be embedded into the cast on strap during its assembly without the stem impinging on a plate adjacent the plate associated with the stem.



21: 2020/07439. 22: 2020/11/30. 43: 2021/07/22 51: A23C; A23L; C12P

71: FUJIAN AGRICULTURE AND FORESTRY UNIVERSITY

72: HUANG, ZHIWEI, ZHANG, YARU, LIN, QINGWEI, LIN, SHAOLING 54: METHOD FOR IMPROVING MONACOLIN K CONTENT IN FERMENTED BEAN CURD 00: -

This invention relates to a method for preparing fermented bean curd with improved Monacolin K (MK) content, where the fermented bean curd is prepared by adding a red yeast rice mixture rich in MK without citrinin or a red yeast rice mixture for use in tank which is rich in MK without citrinin, at a late stage of fermented bean curd preparation, that is, after a bean curd substrate is salted, placing in a tank and fermenting to obtain fermented bean curd rich in MK. The method for preparing fermented bean curd with improved MK content adopted by the present disclosure is simple, and prepared fermented bean curd has a bright red color, a pure aroma, a high MK content and no citrinin.

21: 2020/07445. 22: 2020/11/30. 43: 2021/08/04 51: C01B; C25B; H01L 71: NORTH-WEST UNIVERSITY 72: KRIEK, Roelof Jacobus, IQBAL, Mohd, Zafar 33: NL 31: 2021131 32: 2018-06-15

54: PHOTO-SENSITIVE ELECTROCHEMICAL COMPOUNDS

00: -

This invention relates to photosensitive and/or photoactive electrochemical europium-telluriumoxide compounds which may be used as a photoelectrocatalyst in an electrochemical process and/or as a semiconductor in a photovoltaic cell. More particularly, the invention relates to europiumtellurium-oxide compounds which retains an increased electro active state induced therein during a preceding illumination step. There is provided for the electrochemical process to be any one of an oxygen evolution reaction and an oxygen reduction reaction.



21: 2020/07498. 22: 2020/12/02. 43: 2021/08/04 51: G01B

71: ADIGE S.P.A.

72: DONADELLO, Simone, PREVITALI, Barbara, COLOMBO, Daniele

33: IT 31: 102019000023202 32: 2019-12-06 54: METHOD AND SYSTEM FOR DETERMINING THE SEPARATION DISTANCE BETWEEN A BODY AND THE SURFACE OF AN OBJECT BY MEANS OF LOW COHERENCE OPTICAL INTERFEROMETRY TECHNIQUES UNDER DISTORTION DUE TO SUB-SAMPLING 00: -

A method for determining a distance between an object and a tool or instrument comprises:

generating a measurement beam and leading it towards the object, and leading the reflected or diffused measurement beam from the object towards an optical interferometric sensor in a first direction of incidence, generating a reference beam and leading it towards the optical interferometric sensor means in a second direction of incidence at a preset angle of incidence with respect to the first direction of incidence, superimposing the measurement beam and the reference beam on a common region of incidence of the sensor means, detecting the position of a pattern of interference fringes between the measurement beam and the reference beam on the region of incidence, and determining a difference in optical length between the measurement optical path and the reference optical path on the basis of the position of the pattern of interference fringes.



21: 2020/07537. 22: 2020/12/03. 43: 2021/07/22
51: A61K; C07H
71: Ionis Pharmaceuticals, Inc.
72: FREIER, Susan M.
33: US 31: 62/674,865 32: 2018-05-22
54: MODULATORS OF APOL1 EXPRESSION
00: -

The present embodiments provide methods, compounds, and compositions useful for inhibiting APOL1 expression, which may be useful for treating, preventing, or ameliorating a disease associated with APOL1.

21: 2020/07556. 22: 2020/12/04. 43: 2021/08/05 51: A01K

- 71: John Philip Faul
- 72: John Philip Faul

54: A SYSTEM FOR, AND METHOD OF RESTRAINING A DOG 00: -

According to the first aspect of the invention, there is provided a system for restraining a dog, the system includes one or more of the following: a harness operable to be fitted to a dog; and a double forked leash removably attached to said harness, in use. In an embodiment of the invention, the harness includes one or more of the following: a collar operable to be secured around the neck of a dog, a waistband operable to be secured around the body of the dog, and one or more connecting bands operable to be attached to the collar and the waistband, in use. In an embodiment of the invention, said collar comprises one or more straps, one or more adjustable sliders, one or more bands, and/or one or more fasteners.



21: 2020/07591. 22: 2020/12/07. 43: 2021/08/05 51: D21H 71: SEAL CHEMISTRY (PTY) LTD 72: Gonaseelan Angamuthoo, Douglas Alistair Herbert Knox

54: BARRIER COATED WRAPPER MATERIALS AND METHOD FOR PREPARATION OF BARRIER COATED WRAPPER MATERIALS 00: -

The invention relates to a grease, oil, alkaline, dry soap, water and water vapour transmission barrier coating composition, with or without an aesthetic pigment, for coating of paper-based products used for the packaging, transport, holding, display or consumption of consumables, and to paper-based products coated with the barrier coating composition of the invention. The invention further relates to a method for manufacturing such a barrier coating composition and a method of producing barrier composition coated paper-based products. In particular the barrier composition coated paperbased products are provided as a replacement for polystyrene, expanded polystyrene or other plastic containers.

21: 2020/07605. 22: 2020/12/07. 43: 2021/07/30 51: B28B; G01N

71: SHANDONG UNIVERSITY OF SCIENCE AND TECHNOLOGY

72: JIANG, Lishuai, ZHAO, Yang, XIANG,
Gongliang, ZOU, Hao, SHU, Jiaming
33: CN 31: 201910195955.X 32: 2019-03-15
54: ROCK-LIKE SPECIMEN CASTING MOLD
APPARATUS WITH CONTROLLABLE JOINT AND
USE METHOD THEREOF
00: -

The present invention discloses a rock-like specimen casting mold apparatus with controllable joint and a use method thereof. The apparatus includes a mold body, rotating assemblies and inserts. The mold body has a cylindrical structure closed at the bottom and open at the top. Side walls of both sides of the mold body are provided with adjusting groove groups respectively, and the adjusting groove groups each include a plurality of adjusting grooves sequentially distributed at intervals in a height direction. The rotating assemblies are rotatably mounted on the side wall of the mold body located on an outer side of the mold body. One end of the insert extends into the mold body from the adjusting groove, the other end of the insert is mounted on the rotating assembly. The rotating assembly is configured to rotate and adjust a dip angle of the insert relative to the mold body.



21: 2020/07625. 22: 2020/12/07. 43: 2021/08/04 51: C22B; H01M

71: STC S.R.L. SCIENCE TECHNOLOGY & CONSULTING

72: LA SALA, Giorgio, SCURA, Francesco, FUSILLO, Gianluca

33: IT 31: 102018000005267 32: 2018-05-11 54: PROCESS FOR THE DESULPHURIZATION OF MATERIALS AND/OR RESIDUES CONTAINING LEAD SULPHATE EMPLOYING AN AMINO COMPOUND

00: -

The present invention claims a process for the desulphurization of materials and/or residues containing lead sulphate, carried out in one or more stages. The main characteristic of this process is that the only desulphurising agent is an amino compound selected among urea, guanidine, guanine, arginine or another similar amino compound.



21: 2020/07699. 22: 2020/12/09. 43: 2021/08/12 51: B65D

71: APL Cartons (Pty) Ltd

72: BOSHOFF, Stefan Hofmeyr

54: AUTOMATED PACKING AND SEALING OF A CONTAINER

00: -

A rectangular container (50) is partly erecting from a blank (52) of sheet material to have major walls (14) and minor walls (22) extend around a rectangular internal cavity and two major flaps (18) are folded towards each other so that their edges (20) are in close proximity to form a bottom wall below the internal cavity. The container (50) is packed by placing goods inside the internal cavity and the goods are supported by the major flaps (18). The partly erected container (50) is conveyed by moving it in a transverse direction (56), with the minor walls (22) extending laterally and with the major walls (14) leading and trailing the moving container (50) and minor flaps (26) are attached to the undersides of the major flaps (18).



21: 2020/07708. 22: 2020/12/10. 43: 2021/08/11 51: F16H 71: VARIBOX IP (PTY) LIMITED 72: JOHANNES JACOBUS NAUDE 33: ZA 31: 2018/03995 32: 2018-06-15 54: CONTINUOUSLY VARIABLE TRANSMISSION WITH RADIAL DRIVE 00: -

This invention provides a continuously variable transmission (CVT) system using variable disk friction drive. The CVT system comprises a variator including a roller, having a cam follower, which is radially displaceable from a central axis and mounted in friction drive contact with a drive disk; and a rotatable spiral cam including a spiral cam cavity arranged such that the roller and the cam follower protrudes through the spiral cam cavity, the spiral cam being rotatable about a central axis to radially displace the roller. The invention includes a three-mode synchronous system adapted to cooperate with the variator.



21: 2020/07724. 22: 2020/12/10. 43: 2021/08/12 51: A61M 71: NEEDLESMART LTD 72: KIRBY, Clifford 33: GB 31: 1809626.3 32: 2018-06-12 54: SYRINGE DESTRUCTION 00: -

An apparatus (10) for destroying syringes-needle assemblies (14, 24) is disclosed, which comprises a cradle (12) for holding the syringe (14) and a hub grip (52) for gripping the hub (22) of a needle (24) affixed to the syringe (14). The apparatus (10) comprises means (60, 62, 64, 66, 74) for destroying the needle (24) for example, by passing a current (74) through it to soften/melt it, whilst at the same time, applying an axial compressive force (66) to blunt and compress the needle (24). The hub grip (52) is moveable relative to the cradle (12) so that the needle (24) can be pulled, unscrewed or otherwise detached from the syringe (14). The apparatus (10) is preferably automated, and thus enables the destroyed needle (24, 74) and syringe (14) to be separated, and therefore disposed of in separate waste streams (80, 86) without manual intervention.



21: 2020/07725. 22: 2020/12/10. 43: 2021/08/11

- 51: A61M
- 71: NEEDLESMART LTD 72: KIRBY, Clifford 33: GB 31: 1809623.0 32: 2018-06-12 54: PHLEBOTOMY NEEDLE DESTRUCTION 00: -

An apparatus (200) for processing a phlebotomy needle (12) is disclosed. The phlebotomy needle (12) is a double-ended needle (12) with a hub (18) located between its tips (14, 16). The apparatus (200) has a clamping electrode (52) for contacting and clamping one end (14) of the needle (12) between the hub (18) and the tip (14) and a tip electrode (54) for contacting the needle (12) at its tip (14). A voltage (302) is applied between the clamping electrode (52) and the tip electrode(54), to soften/melt the needle via resistive heating, at the same time as the tip electrode (54) is advanced (304) to compress the needle tip (14) and blunt it. The apparatus (200) is characterised by means (208, 210, 216, 218, 224) that allows the needle (12) to be rotated through, say 180 degrees, so that the first tip (14) and the second tip (16) can be blunted. Also disclosed is means for detaching the phlebotomy needle (12) from a main body (20) and/or for removing a cover (22) covering one end (16) of the phlebotomy needle(12). The apparatus (200) enables a Vacutainer-type needle (10) to be disassembled into its various parts (12, 20, 22) and the needle (12) rendered blunt at both ends and non-hazardous.



- 21: 2020/07772. 22: 2020/12/14. 43: 2021/08/11 51: G06F
- 71: Zensar Technologies Limited

72: Aishwarya Chaurasia, Richa Sawhney, Sumant Kulkarni, Mukul Tiwari, Hari Eswar S M, Sandeep Kishore, Shree Krishna Somani

33: US 31: 17/099,918 32: 2020-11-17 54: SYSTEM AND METHOD FOR DETERMINING CORRELATION BETWEEN A CONTENT AND A PLURLAITY OF RESPONSES 00: -

A system (101) and a method (200) for determining a correlation between a content and a plurality of responses corresponding to the content shared on a communication platform is disclosed. The system (101) may be configured for filtering a set of responses from the plurality of responses based upon interaction analysis of each user providing the response in view of prior engagement data and participation data on the communication platform, and content analysis corresponding to historical contents, on the communication platform, of each user providing the response. The system (101) may further configured for extracting multidimensional behaviour data and performing an analysis on the multidimensional behaviour data of the content and each response of the set of responses corresponding to the content. Further, the system (101) may be configured for deriving insights such as identification of an improvement areas, a context and an audience or a group of users.

33: AT 31: A175/2018 32: 2018-06-15 54: PROCESS FOR ISOLATING LIGNIN FROM AN ALKALINE PROCESS STREAM 00: -

In a process for isolating lignin from an alkaline process stream, especially thickened black liquor, the alkaline process stream is introduced continuously into a lower region of at least one circulation reactor (1) having two reactor zones in a concentric arrangement, wherein a liquid level (10) of the alkaline process stream in the interior of the at least one circulation reactor (1) is chosen essentially at a level with an upper end (7) of an inner tubular reactor zone (6), wherein a CO2-containing gas is blown continuously from the bottom into the inner tubular reactor zone (6) of the at least one circulation reactor (1), wherein the CO2-containing gas is absorbed by the alkaline process stream in the inner circular reactor zone (6) and offgas is drawn off together with residual amounts of the CO2 at the top of the at least one circulation reactor (1), wherein the process is run at ambient pressure, especially 1 atm, and thickened black liquor with a reduced lignin content together with precipitated lignin present therein are drawn off optionally after settling at the base of the at least one circulation reactor (1).



21: 2020/07776. 22: 2020/12/14. 43: 2021/08/11 51: D21C 71: PAPIERHOLZ AUSTRIA GMBH 72: KIENBERGER, Marlene, SIEBENHOFER, Matthäus, PICHLER, Thomas Michael



21: 2020/07825. 22: 2020/12/15. 43: 2021/08/06 51: B01J; C02F 71: SOUTH CHINA UNIVERSITY OF TECHNOLOGY 72: WU, Pingxiao, CHEN, Liya, WANG, Huimin, BI, Yingzhi, DANG, Zhi, ZHU, Nengwu 33: CN 31: 201810493656.X 32: 2018-05-22 54: IRON-MODIFIED CHITOSAN/VERMICULITE COMPOSITE CAPABLE OF SIMULTANEOUSLY REMOVING ANION AND CATION HEAVY METALS, AND PREPARATION AND APPLICATION THEREOF 00: -

The present invention, belonging to the technical field of water treatment, discloses an iron-modified chitosan/vermiculite composite capable of simultaneously removing anion and cation heavy metals, and a preparation method and application thereof. The method comprises the following steps: (1) dissolving chitosan in an acid solution to obtain a chitosan solution, wherein the acid solution is a weak acid solution; (2) mixing a ferric salt, vermiculite and the chitosan solution uniformly to obtain a mixture solution; (3) putting an crosslinking agent into the mixture solution, and heating for crosslinking to obtain a crosslinked product; (4) adding the crosslinked product dropwise to an alkaline solution, and then stirring, aging and washing to obtain an initial product; and (5) secondly crosslinking the initial product with the crosslinking agent in the alkaline solution, and then aging, washing and drying to obtain an iron-modified chitosan/vermiculite composite. The raw materials of the composite of the present invention have wide sources and low price. The prepared composite, having a high specific surface area, stable mechanical properties and good adsorption performance, can simultaneously remove anion and cation heavy metals, especially hexavalent chromium and divalent cadmium.



21: 2020/07857. 22: 2020/12/15. 43: 2021/08/06 51: G07F 71: TCS JOHN HUXLEY EUROPE LIMITED 72: SAUNDERS, Andrew Michael 33: GB 31: 1810767.2 32: 2018-06-29 54: GAMING SYSTEM 00: -

A gaming system is provided to maximise the number of betting opportunities in a set period. The gaming system comprises, at least two physical random number generators each having an operative period comprising an available period and an unavailable period; a selecting member arranged to select one physical random number generator during an available period of said physical random number generator and further arranged to deselect said physical random number generator during an unavailable period of said physical random number generator; wherein the gaming system further comprises a betting member arranged to accept betting information from a user for the selected physical random number generator; wherein one physical random number generator is selected at any one time. The aim of the gaming system of the present invention is to provide the maximum number of betting opportunities in a given time period, in order to increase player satisfaction and enhance the overall consumer experience. The number of opportunities can be customised according to the specific gambling regulations of a region, and wherein concurrent bets by a single user across multiple random number generators is prevented.



21: 2020/07871. 22: 2020/12/17. 43: 2021/08/12 51: E21C

71: CORNELIUS MARTHINUS VAN ANTWERP, JAMES JACKSON RAUTENBACH 72: CORNELIUS MARTHINUS VAN ANTWERP, JAMES JACKSON RAUTENBACH 54: A SYSTEM FOR, AND METHOD OF ASSISTING WITH THE DRILLING OF SHOT HOLES IN MINING OPERATIONS 00: -

According to a first aspect of the invention, there is provided a system for assisting with the drilling of shot holes in mining operations, the system including one or more of the following: a transportable sheet used for navigating the drilling of shot holes, said sheet being operable to be aligned against a face of a wall to guide drilling of one or more shot holes. In an embodiment of the invention, said system further comprises one or more levelling screws operable to set said sheet parallel to a face of a wall so as to ensure a right angle is maintained for drilling into a surface of said face. In an embodiment of the invention, said system further comprises one or more clamps operable to affix said sheet to said face of said wall. In this embodiment, said clamps are provided in the example form of cam clamps.



21: 2020/07872. 22: 2020/12/17. 43: 2021/08/11 51: G09B

71: QINGDAO UNIVERSITY OF TECHNOLOGY 72: KONG, Liang, ZHAO, Yapeng, YUAN, Qingmeng, WANG, Xing, LIN, Xingyu, XU, Rui, LIU, Chao

33: CN 31: 201911406873.1 32: 2019-12-31 54: ROTATABLE SIMILAR MATERIAL SIMULATION EXPERIMENT DEVICE AND METHOD

00: -

A rotatable similar material simulation experiment device and method. An external transverse rod and a rotating shaft are fixedly together, an external vertical rod and the rotating shaft are fixedly together, the rotating shaft is fixed at tops of support rods, two ends of the support rods and the rotating shaft are fixedly together, the two ends of the support rods and a model rack base are fixedly together, an experiment table is connected with the support rods together through the external transverse rod, the external vertical rod and the rotating shaft; a compression plate and middle jacks are fixed together, the middle jacks and an experiment table top beam are fixed together; and an upper jack is hinged to a model rack top beam and an experiment table top beam, and a lower jack is hinged to the model rack base and an experiment table bottom plate respectively.



21: 2020/07882. 22: 2020/12/17. 43: 2021/08/12 51: G06F

71: NANJING ZHIJIN TECHNOLOGY INNOVATION SERVICE CENTER

72: GAO Qing, CHEN Xiaobing, GAO Yan 33: CN 31: 202010696315.X 32: 2020-07-20 54: INTELLIGENT TRAINING AIDING METHOD AND SYSTEM FOR INSTRUCTIONAL CARS 00: -

The invention relates to an intelligent training aiding method and system for instructional cars. The method comprises: acquiring image information of a training field in real time through a camera, and uploading the image information into a machine learning model; detecting an image of the training field by a model to determine the type of the training field and determine whether or not there is an instructional car in the image of the training field; if there is an instructional car in the image of the training field, generating a driving path by calculation and analysis of the model; calculating and analyzing the driving path by the model to determine whether or not the driving path deviates from a preset path; if so, generating correction information by the model and sending the information to the instructional car; and displaying and broadcasting the correction information in the car, so that a learner in the car can adjust personal driving actions according to the correction information to make the driving path close to the preset path. The method can replace instructors to some extent to intelligently aid the learner in driving training and can improve the training level of the learner to a certain extent.

21: 2020/07883. 22: 2020/12/17. 43: 2021/08/12 51: G06F

71: NANJING ZHIJIN TECHNOLOGY INNOVATION SERVICE CENTER

72: GAO Qing, CHEN Xiaobing, ZHAO Jinling 33: CN 31: 202010696316.4 32: 2020-07-20 54: INTELLIGENT MANAGEMENT SYSTEM FOR SIDE PARKING

00: -

The embodiments of the invention relates to an intelligent management system for side parking, comprising a payment device used for providing payment information for a car owner and having a moving function, a rail allowing the payment device to be disposed thereon and limiting the movement of the payment device, at least one monitoring device used for monitoring the state of all parking spaces, a server used for analyzing and storing data shot by the monitoring device, calculating charge data of each parking space and sending a movement instruction to the payment device, and communication devices used for sending or receiving data transmitted between the server, the monitoring device and the payment device. The payment device is provided with a payment component, a printing component and a voice component. Intelligent monitoring of side parking is realized, so that the labor cost is reduced; in addition, the car owner can complete payment easily and quickly without a third party when leaving a parking space.

21: 2020/07885. 22: 2020/12/17. 43: 2021/08/12 51: G06F

71: NANJING ZHIJIN TECHNOLOGY INNOVATION SERVICE CENTER

72: GAO Yan, CHEN Xiaobing, ZHAO Jinling 33: CN 31: 202010696273.X 32: 2020-07-20 54: IOT-BASED (INTERNET OF THINGS BASED) INTELLIGENT FOOD DELIVERY CONTAINER AND MANAGEMENT CONTROL METHOD THEREOF 00: -

The invention relates to an IoT-based (Internet of Things based) intelligent food delivery container and a management control method thereof. The IoTbased (Internet of Things based) intelligent food delivery container comprises a container body, an electronic lock, a controller, a data receiving module, a temperature control module, a data acquisition module and a data comparison module. Wherein, the electronic lock is disposed on a door of the container; the controller is electrically connected to the electronic lock; the data receiving module is used for receiving food delivery order information sent from a terminal and identity verification information of a consignee; the temperature control module is electrically connected to the data receiving module and the controller; the data acquisition module is used for acquiring information of the consignee; the data comparison module is electrically connected to the controller, the data receiving module and the data acquisition module and used for comparing the information of the consignee with the identity verification information of the consignee, and when a comparison result indicates that the information of the consignee is identical with the identity verification information of the consignee, the controller controls the electronic lock to be unlocked. The IoT-based (Internet of Things based) intelligent food delivery container improves the security of takeout food in the delivery process to some extent.

21: 2020/07886. 22: 2020/12/17. 43: 2021/08/12 51: G06F

71: NANJING ZHIJIN TECHNOLOGY INNOVATION SERVICE CENTER

72: GAO Qing, GAO Yan, CHEN Xiaobing 33: CN 31: 202010696292.2 32: 2020-07-20 54: FITNESS INSTRUCTION METHOD AND SYSTEM

00: -

The embodiments of the invention relates to a fitness instruction method and system. The method comprises: detecting and obtaining fat content data of all body parts of a user by an infrared detection device, and sending the fat content data to a terminal; acquiring first biological indicator data of the user in a quiescent state, and sending the first biological indicator data to the terminal; generating a training suggestion by the terminal according to the fat content data of the body parts of the user and the first biological indicator data; acquiring, in real time, second biological indicator data of the user when the user performs the training suggestion, and sending the second biological indicator data to the terminal; comparing the second biological indicator data with preset biological indicator data to determine whether

or not the user gets fatigue; if so, generating a first prompt message; wherein a database is configured in the terminal, the training suggestion is a video and/or a picture displayed on a display interface of the terminal, and the first prompt message is used to prompt the user to have a rest. According to the embodiments of the invention, all body parts of the user can be trained in a targeted manner, the exercise amount and the exercise intensity can be kept within a tolerable range of the user, and the rest time of the user can be reasonably scheduled.

21: 2020/07887. 22: 2020/12/17. 43: 2021/08/06 51: G06F

71: NANJING ZHIJIN TECHNOLOGY INNOVATION SERVICE CENTER

72: ZHAO Jinling, CHEN Xiaobing 33: CN 31: 202010696314.5 32: 2020-07-20 54: ABNORMAL BODY POSTURE PROMPT METHOD AND SYSTEM

00: -

The embodiments of the invention relate to an abnormal body posture prompt method and system. The method comprises: acquiring video frame data of a body posture in real time by a camera, and inputting the acquired video frame data to a preset neural network model; determining whether or not a body is in an abnormal posture by means of calculation and analysis of the preset neural network model, and recording a first duration of the body in the abnormal posture; if the first duration exceeds a first preset duration, depicting the abnormal posture of the body, carrying out an overlapping contrast between the abnormal posture and a normal posture of the body, and generating a first prompt information; and displaying the first prompt information. The abnormal body posture prompt method and system provided by the embodiments of the invention can prompt users to do physical activities properly, adjust their postures and arouse users' awareness of the harm of abnormal postures to their bodies.

71: Cedric Jean-Luc Vanderbeken

^{21: 2020/07978. 22: 2020/12/21. 43: 2021/08/11} 51: B01F

^{72:} Cedric Jean-Luc Vanderbeken, Marc Alphonse Vanderbeken, Olivier Hugo Christopher Dany Vanderbeken

54: METHOD AND APPARATUS FOR SEPARATING ORGANICS FROM A CONTAMINATED ORGANICS-INORGANICS WASTE STREAM

00: -

An improved process and apparatus for separating organics and inorganics from waste material with a specific object of preparing the separated organic fraction for the production of biogas or other methods for diverting organics from landfills. Waste material, such as municipal solid waste or sourceseparated organic waste (SSO), is subjected to a first separation treatment that separates organic and inorganic waste components. The apparatus includes a hopper to receive contaminated organic waste from different sources, a vertical separator that separates the inorganics from the organics by creating a vortex effect in a stationary filtration drum by which the solid contaminants (paper, plastic, metals) are blown in a spiral pattern upwards and removed from the top, while the organic fraction is removed from the bottom. Such apparatus is improved through novel methods to reduce or eliminate blockages and their associated downtime, and to increase the efficiency of the separation process.

21: 2020/08009. 22: 2020/12/22. 43: 2021/08/12 51: H04W 71: ACE ENVIRONMENTAL SOLUTIONS (PTY) LIMITED 72: VISAGIE, Gert Maritz, UYS, Johannes Gerhardus 33: ZA 31: 2019/08130 32: 2019-12-09 **54: CELLULAR BASE STATION** 00: -This invention relates to a cellular base station 10

comprising an enclosure 12 for housing electronic communication equipment 14, a tall upright structure 16 for holding at least one antenna element 18, a local power supply 20 for supplying electrical current to the electronic communication equipment 14, and temperature regulating means 22 for regulating the temperature of the enclosure 12.



21: 2020/08054. 22: 2020/12/23. 43: 2021/08/12 51: G05D

71: ANHUI UNIVERSITY OF SCIENCE & TECHNOLOGY

72: OUYANG, Mingsan, WANG, Yunlong 33: CN 31: 201911345699.4 32: 2019-12-24 54: TEMPERATURE CONTROL SYSTEM BASED ON IMPROVED AUTOMATIC DISTURBANCE REJECTION TECHNOLOGY FOR CHEMICAL PRODUCTION 00: -

The present disclosure discloses a control system based on an improved automatic disturbance rejection technology, including an input module, an improved automatic disturbance rejection controller (ADRC), and an execution module. The input module includes a flow data acquisition module and a control object, the improved automatic disturbance rejection controller includes a tracking differentiator, an extended observer, and a nonlinear state error feedback controller, and the output module includes a cold water valve. According to the present disclosure, structures of the tracking differentiator, the extended observer and the automatic disturbance rejection controller are improved. Technical effects of the improvement are as follows: An improved controller and an improved control structure are not affected by a number of iterations. Requirements for precise parameters are reduced. When the improved structures are applied to a complex technological process, time of automatic disturbance rejection increases, and robustness is stronger.



21: 2020/08097. 22: 2020/12/23. 43: 2021/08/12 51: E04B; E04C; E04H 71: ZEPELIN, S.R.O. 72: Juraj BREZAN, Henrich HODÁK, Pavol

OCHODNICKÝ 33: SK 31: PUV 50059-2018 32: 2018-06-08 54: HIGH PRESSURE INFLATABLE BEAM 00: -

A high pressure inflatable beam (1) with a typical internal operating pressure in the range of 100 to 1,000 kPa, formed from conventional or modified fire hoses, or other industrial hoses or tubes produced by seamless braiding technology with an internal lining impervious to air and a possible outer protective coat, the ends of which are closed by a plug, wherein at least one plug contains at least one filling and/or discharging element for the filling medium, and the ends of the beam (1) are firmly put in at a distance of less than the total length of the beam (1), where at least one a section of its length, the beam (1) is provided with at least two adjoining fixed attachment points (2) located in the longitudinal direction of the beam (1) and formed on the surface of the beam (1) or sleeves (5) of the beam (1), wherein the fixed attachment points (2) are interconnected by at least one force exerting element (3), whose straight length between the fixed attachment points (2) is shorter than the straight length of the plain beam (1) between these fixed attachment points (2).



21: 2021/00013. 22: 2021/01/04. 43: 2021/08/26 51: C02F

71: WET HOLDINGS (GLOBAL) LIMITED 72: ADAMS, Michael, BRADLEY, Darren, MOHAMED, Ahmed

33: GB 31: 1809909.3 32: 2018-06-17 54: APPARATUS AND METHOD FOR PRODUCING ALKALINE WATER 00: -

Apparatus and a method tor the treatment of water includes a vessel (6) having a water inlet (31) and a water outlet (28a, 28b) and means for feeding water to the vessel via the water Inlet. The vessel contains a body of water and a solid particulate or granular material comprising one or more elementary metals or oxides thereof capable of raising the pH of the water. Located within the vessel and connected to the water inlet, is means (32) for causing circulatory motion of water entering the vessel sufficient to suspend the solid material within the body of water during passage of water through the vessel, whereby the pH of the water is caused to He within the range 7 to 11.



54: SELF-LOCKING BRACKET

00: -

A self-locking bracket comprises a main body portion (100), a cover portion (200) engaging with the main body portion (100), and an elastic member (300). The main body portion (100) is provided with a cover

holding portion (130) intersecting a main channel (110) and a first recess (120). The first recess (120) is provided with openings respectively located at the bottom of the cover holding portion (130) and on an outer side surface of the main body portion (100). The elastic member (300) comprises an engagement portion, and is connected to the first recess (120). The cover portion (200) is provided with a second recess engaging with the engagement portion of the elastic member (300). The bottom of the second recess is provided with a blocking portion (240). The cover portion (200) is mounted at the cover holding portion (130). The self-locking bracket is easy to mount and use, thereby reducing mounting processes, and is structurally stable during use, thereby preventing a cover plate from falling off.



21: 2021/00023. 22: 2021/01/04. 43: 2021/08/11 51: H04J; H04W

71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)

72: BALDEMAIR, Robert, FALAHATI, Sorour, DAHLMAN, Erik, PARKVALL, Stefan 54: HANDLING BS-TO-BS INTERFERENCE IN RADIO ACCESS NETWORKS

00: -

There is disclosed a method of operating a grouping node connected to a radio access network, the method comprising grouping one or more radio nodes (100) of the radio access network into one or more groups, wherein to each group there is associated one identity and/or a schedule of transmitting signaling an identity. The disclosure also pertains to related devices and methods.



21: 2021/00068. 22: 2021/01/05. 43: 2021/08/25 51: A61K; A61L; C08B; C08L

71: MERZ PHARMA GMBH & CO. KGAA

72: PFEIL, Michael, KESSLER, Wolfgang,

CONRAD, Manuel, NIEMCZAK, Björn, VUKOVIC, Patrik

33: EP 31: PCT/EP2018/071328 32: 2018-08-07 54: METHOD FOR DYNAMIC FILTRATION OF A CROSS-LINKED HYDROGEL

00: -

The present invention relates to a method for dynamic filtration of a cross-linked biopolymer-based hydrogel to remove unwanted molecules from the gel. In particular, the invention relates to dynamic filtration of a hyaluronic acid hydrogel using a dynamic filtration construction with rotating and semipermeable filter discs.

21: 2021/00166. 22: 2021/01/11. 43: 2021/08/26 51: A61K 71: ATG 20 S.R.L. 72: SANSÒ, Marco Aldo 33: IT 31: 102018000007291 32: 2018-07-18

54: COMPOSITION COMPRISING GLYCYRRHIN AND COSMETIC AND PHARMACEUTICAL USES THEREOF

00: -

The invention discloses a composition comprising glycyrrhizin, hyaluronic acid or a salt or a derivative thereof, and a viscosizing agent. The composition therefore finds advantageous application in all those cosmetic and therapeutic indications in which glycyrrhizin is used, since the composition according to the invention significantly improves the bioavailability thereof.



21: 2021/00188. 22: 2021/01/12. 43: 2021/08/26 51: G06Q

71: Hunan University of Science and Technology 72: Xinbao Chen, Zhangqian Yang, Shan Wang 33: CN 31: 2020113875115 32: 2020-12-02 54: NATIONAL ECONOMIC ESTIMATION METHOD AND DEVICE BASED ON LUMINOUS REMOTE SENSING DATA 00: -

The invention discloses a national economic estimation method and device based on luminous remote sensing data. The method comprises: acquiring NPP-VIIRS luminous remote sensing data and preset national administrative boundary data; the NPP-VIIRS luminous remote sensing data includes NPP-VIIRS cloudless luminous data and stable light source luminous data; regionally extracting the NPP-VIIRS luminous remote sensing data through the preset national administrative boundary data; generating a mask according to the stable light source luminous data, and cleaning the NPP-VIIRS cloudless luminous data through the generated mask to obtain a to-be-processed luminous image; performing national economic estimation and model improvement according to the

to-be-processed luminous image. The method can improve accuracy.



21: 2021/00219. 22: 2021/01/13. 43: 2021/08/26 51: A24D; C08K; C08L; C09K 71: NANTONG UNIVERSITY 72: MIAO, Jianwen, LI, Minmin, SONG, Guohua, WANG, Yan, XIA, Jie 33: CN 31: 202010146958.7 32: 2020-03-05 54: CELLULOSE DIACETATE COMPOSITE SHAPE-STABILIZED PHASE CHANGE MATERIAL AND PREPARATION METHOD AND USE THEREFOR

00: -

A cellulose diacetate composite shape-stabilized phase change material that reduces the temperature of vapor from a heat-not-burn cigarette, and a preparation method and a use therefor. The cellulose diacetate composite shape-stabilized phase change material is prepared from a mass fraction of 10-50% of cellulose diacetate, 50-90% of the phase change material PEG, and 1-5% of a thermally conductive material by means of a blending method solution. The cellulose diacetate composite shape-stabilized phase change material, due to the cellulose diacetate therein having a rigid network structure and a high melting point, features excellent thermal stability and and a solid-solid phase change feature. The phase transition of branched-chain PEG from a crystalline state to an amorphous state causes the material perform a heat absorbing and energy storing function. The addition of a thermally conductive metal powder improves the thermal conductivity of the material, thus achieving a rapid cooling effect. Tobacco loading and draw resistance in the cellulose diacetate composite shape-stabilized phase change material are similar to iQOS tobacco, and can markedly reduce the temperature of vapor in the first to fourth draws, the temperature of the vapor in the first draw being able to be reduced at most to 36C.



21: 2021/00252. 22: 2021/01/13. 43: 2021/08/25 51: H04N

71: BEIJING DAJIA INTERNET INFORMATION TECHNOLOGY CO., LTD. 72: WANG, Xianglin, CHEN, Yi-Wen 33: US 31: 62/700,106 32: 2018-07-18 54: METHODS AND APPARATUS OF VIDEO CODING USING HISTORY-BASED MOTION VECTOR PREDICTION 00: -

A computing device performs a method of decoding video data by acquiring a video bitstream including data associated with multiple encoded pictures, each picture including multiple rows of coding tree units (CTUs) and each CTU including one or more coding units (CUs). A data buffer storing a plurality of history-based motion vector predictors is used for encoding the rows of CTUs and the decoding process resets the buffer before decoding a first CU of a current row of CTUs. For a current CU of the row of CTUs, a motion vector candidate list is constructed from exploiting spatial and temporal correlation of motion vectors of neighbouring code units as well as the history-based motion vector predictors in the buffer. Finally, one motion vector

predictor is selected, from the motion vector candidate list, for decoding the current CU and the buffer is updated based on the selected one.



21: 2021/00253. 22: 2021/01/13. 43: 2021/08/20 51: A01K

71: HANDELS-OG PRODUKTIONSSELSKABET VEN-PO A/S

72: VITH HANSEN, Flemming

33: DK 31: PA 2018 00333 32: 2018-07-04 54: FENCE SYSTEM

00: -

A fence system (30) for fixing a thread (8, 8', 8", 8"') to a post (4) is disclosed. The fence system (30) included a fixation member (2, 2') comprising one or more fixation structures (6, 6', 6", 6"') configured to receive the thread (8, 8', 8", 8"') and hereby fix the thread (8, 8', 8", 8"') to the fixation member (2, 2'). The fixation member (2, 2') included a first portion (12) and a second portion (12') detachably attached to each other.



21: 2021/00366. 22: 2021/01/18. 43: 2021/08/25 51: F41A; F41B; F41C; F42B 71: RIPPEL EFFECT SYSTEMS (PTY) LIMITED

72: CHRISTO BOTES

33: ZA 31: 2018/04758 32: 2018-07-17 54: VARIABLE PORT PRESSURE DEVICE FOR USE ON A MULTIPLE GRENADE LAUNCHER 00: -

The invention relates to a variable port pressure device or gas plug, adapted for use on a multiple grenade launcher, and configured to improve indexing of such a weapon, particularly when used with lower velocity ammunition. The device comprises a piston which is co-axially displaceable within a piston housing, the piston comprising a groove extending about an exterior wall surface of the piston so as to create a tortuous gas flow path between the piston and the piston housing, and a hollow cylindrical body which terminates at one end thereof in a concave base wall.



- 21: 2021/00377. 22: 2021/01/19. 43: 2021/08/25 51: A01N; A01P
- 71: BELCHIM CROP PROTECTION NV

72: SCUDIERO, Vincenzo, ADRIAANSEN, Peter, DESNOUCK, Johan 33: BE 31: 2018/5460 32: 2018-07-02

54: SYNERGISTICALLY EFFECTIVE HERBICIDE COMPOSITION COMPRISING METOBROMURON AND CLOMAZONE

00: -

The current invention concerns a synergistically effective herbicide composition comprising as component (A) an herbicidally active amount of metobromuron and as component (B) clomazone, wherein a weight ratio of components (A) and (B) is in a range up to 1000:1. The invention further concerns a kit comprising metobromuron and clomazone and a use of a herbicide composition according to the invention in an amount effective for controlling one or more types of unwanted vegetation by applying the herbicide composition to the unwanted vegetation and/or a habitat thereof.

21: 2021/00404. 22: 2021/01/19. 43: 2021/08/25 51: F41A; F41C; F42B 71: RIPPEL EFFECT SYSTEMS (PTY) LIMITED 72: GERT STEPHANUS ROSSOUW 33: ZA 31: 2018/05220 32: 2018-08-03 54: A MULTI-ROUND LAUNCHER COMPRISING A MECHANICALLY-ACTUATED INDEXING MECHANISM

00: -

The invention relates to a multi-round launcher [10] comprising a pin dowel index [30] arranged approximate one end of a cylinder [22]; and a mechanically-actuated indexing mechanism [38] which operates entirely independently of gas pressure and which is configured to improve indexing of such a weapon, particularly when lower velocity ammunition is used. The indexing mechanism [38] comprises an advance lever [40] which is linked to and mechanically actuated by a trigger mechanism [28]; and a displaceable indexing shaft [42] which is linked to and mechanically actuated by the advance lever [40], the indexing shaft [42] being displaceable between a resting position and an actuated position so that the indexing shaft [42] alternately engages and disengages the pin dowel index [30] of the cylinder [22].



21: 2021/00438. 22: 2021/01/21. 43: 2021/08/20 51: B65D

71: CRRC TAIYUAN CO., LTD 72: LI, Peng, ZHANG, Chunfa, ZHAO, Zuxing, XIE, Jianfeng, LIU, Wensheng, JING, Shengshou 33: CN 31: 201811039125.X 32: 2018-09-06 54: SIDE UNLOADING HOPPER CONTAINER FOR BREAK BULK CARGO 00: -

A side unloading hopper container for a break bulk cargo, comprising; a container body comprising an underframe, and end walls (1) and side walls (2) provided around the underframe; a side unloading mechanism comprising a side door (3), damping devices, and a locking mechanism (4), the side door being provided below the side wall at one end or the side walls at both sides; the damping devices being mounted at both ends of the side door; the locking mechanism being used for controlling open and close of the side door; and a hopper mechanism disposed on the underframe, and comprising a hopper ridge (16) and hopper plates (17) provided at both sides of the hopper ridge, the hopper plates extending downward to the bottom of the side walls. According to the container, a safe and efficient intensive mode of transport which is dominated by rail transport can be formed, yard-to-yard and doorto-door one-stop transport is achieved, the loss of equipment such as a gantry crane and a car dumper is reduced, the unloading time is shortened, the labor cost is reduced, and the comprehensive benefit is improved.



21: 2021/00441. 22: 2021/01/21. 43: 2021/08/20 51: A01G; B05B

71: VALMONT INDUSTRIES, INC. 72: MOELLER, Mark, THATCHER, Tracy A.

33: US 31: 62/744,388 32: 2018-10-11

54: SYSTEM AND METHOD FOR CASCADING ALIGNMENT OF INDEPENDENT DRIVE SYSTEMS 00: -

The present invention provides a system for aligning drive towers within an irrigation system. According to a preferred embodiment, the present invention includes a system and method for cascading alignment of independent drive systems. According to a preferred embodiment, a preferred method may include the steps of: transmitting controller timing data to the first intermediate drive tower and the second intermediate drive tower; assigning a first correction time slot to the second intermediate drive tower; assigning a second correction time slot to the first intermediate drive tower; receiving first alignment data by the second intermediate drive tower; receiving second alignment data by the first intermediate drive tower; performing a first alignment correction based on the first alignment data received by the second intermediate drive tower; and performing a second alignment correction based on the second alignment data received by the first intermediate drive tower.



21: 2021/00450. 22: 2021/01/21. 43: 2021/08/19 51: A61F; A61M

71: JIANGSU PROVINCE HOSPITAL (THE FIRST AFFILIATED HOSPITAL OF NANJING MEDICAL UNIVERSITY)

72: CHEN, Qingli

33: CN 31: PCT/CN2019/077522 32: 2019-03-08 54: BLADDER FLUSHING MONITORING DEVICE AND MONITORING METHOD THEREOF 00: -

A bladder flushing monitoring device, arranged on a urine dropper (1), one end of the urine dropper (1) penetrating a urine storage bag (2) and the other end penetrating the bladder of a patient, a flow velocity monitoring apparatus (3) and a negative pressure suction metering apparatus (5) being arranged on the urine dropper (1), the negative pressure suction metering apparatus (5) being in communication with the urine dropper (1) by means of a three-way switching valve (4), the flow velocity monitoring apparatus (3) and the negative pressure suction metering apparatus (5) having a communication connection to an automatic controller, and the automatic control also being connected to an alarm apparatus. The device implements an automatic flushing monitoring effect, preventing the nursing workload of nursing staff, and can easily calculate the urine output per unit of time as the flow velocity value per unit of time can be directly acquired.



21: 2021/00457. 22: 2021/01/22. 43: 2021/08/26 51: A01K

71: Pearl River Fisheries Research Institute of Chinese Academy of Fishery Science72: Guangjun Wang, Kai Zhang, Jun Xie, Zhifei Li, Ermeng Yu, Yun Xia, Wangbao Gong, Jingjing Tian, Lijuan Jia

33: CN 31: 202011490692.4 32: 2020-12-17 54: A METHOD FOR CONTROLLING CRAYFISH TO SURVIVE THE SUMMER SAFELY CULTURED IN SOUTHERN CHINA PADDY FIELDS 00: -

The present invention disclosed a method for controlling cravitish to survive the summer safely cultured in southern China paddy fields. The method includes the following steps: (1) excavating the circular groove around the paddy fields; (2) disinfecting the paddy fields and the circular grooves; (3) putting organic fertilizer and/or livestock manure in the paddy fields, rotary tillage in the paddy fields, planting aquatic plants after 5-7 days, then transplanting rice in the paddy fields, and releasing crayfish fries. The present invention aims at the problem of crayfish to survive the summer in southern China. The method can reduce the temperature of the water by deepening the circular groove around the pond, pulling a sunshade net above the circular groove, and placing a shelter in the water groove and agitating the water with water pumps. At the same time, it combines cravfish culturing technology and breeding technology to

improve the survival rate of crayfish, improves the quality of culturing, production and economic benefits of culturing. Moreover, while reducing the water surface temperature, it can keep the water in a flowing state and keep the water fresh.

21: 2021/00464. 22: 2021/01/21. 43: 2021/08/19 51: B25B; E04H 71: WIREMAN PTY LIMITED 72: LOWREY, Ian, OLD, Fraser Patison 33: AU 31: 2018903459 32: 2018-09-14 33: AU 31: 2019900744 32: 2019-03-07 54: FENCING APPARATUS AND FENCING TECHNIQUES

00: -

A parallelogram wire gripping apparatus (150, 250) is disclosed. There is a pair of distal arms (151, 152, 251, 252) and a pair of proximal arms (153, 154, 253, 254). The distal ends of the distal arms are pivoted to each other and are shaped to form a wire clamp (165). Each proximal end of the distal arms is pivoted to a corresponding distal end of the proximal arms. Each proximal arm is pivoted together at a midpoint thereof. A spring (130, 230) urges the wire clamp closed. A wire gripping jaws arrangement (165) incorporating fasteners (171, 172, 173) is also disclosed. A wire strainer incorporating two grippers (141, 142), a chain (144) and a winch (143) is also disclosed.



21: 2021/00473. 22: 2021/01/22. 43: 2021/08/19 51: C07C 71: ANHUI XUELANG BIOTECHNOLOGY CO.,

LTD. 72: Yan ZHANG, Ming HOU

54: PRODUCTION PROCESS OF FUMARIC ACID 00: -

The present invention discloses a production process of fumaric acid, which includes the following steps: performing a decolorization treatment with activated carbon, filtering and adding into a reactor; performing a freezing treatment, heating the reactor after the freezing treatment, adding urea and continuously stirring; keeping at 50°C for 1 h, stopping heating and cooling naturally, continuously cooling to -6°C and keeping for 15 min; heating at room temperature automatically, adding diammonium hydrogen phosphate, reheating to 77°C, and then cooling in a natural state, when the temperature in the reactor is reduced to room temperature, centrifuging to obtain the fumaric acid. The advantages of the present invention are as follows: the present invention uses urea as a catalyst and can neutralize urea through diammonium hydrogen phosphate in the process of use to form inorganic salt composition, so that the residual waste liquid has little pollution and does not need to be degraded, and can be discharged after simple treatment; the obtained product is pure white without yellowing after decolorization treatment by activated carbon.

21: 2021/00499. 22: 2021/01/25. 43: 2021/08/19 51: H04M: H04W

71: Sifox Limited

72: Gorkova Maria Davidovna, Gorenstein Vladimir Iosifovich

33: RU 31: RU2737959 32: 2020-05-22

54: SUBSCRIBER NOTIFICATION MANAGEMENT SYSTEM

00: -

The proposed subscriber notification management system relates to the field of telecommunications and communications, in particular to systems used in cellular networks of any standards, including GSM, UMTS (IN Intelligent Network), LTE (IMS IP Multimedia Subsystem), and is intended for increasing cellular network provider (NP) economic performance by stimulating voice calls. NP economic performance is improved by considering the maximum possible number of network attributes of the calling and the called subscribers when determining the direction of MCA transmission. The management system can easily be scaled to any number of subscriber network attributes and adapts to any MCA scenarios.



21: 2021/00525. 22: 2021/01/25. 43: 2021/08/18 51: A01N; A01P

71: BELCHIM CROP PROTECTION NV 72: VERMAELEN, Jan, VANHASSEL, Pieter, DESCHOMETS, Gilles

33: EP 31: 18186490.1 32: 2018-07-31 54: SYNERGISTICALLY EFFECTIVE HERBICIDE COMPOSITION COMPRISING PYRIDATE AND AT LEAST ONE DEFINED 4-HPPD INHIBITOR 00: -

The current invention concerns a synergistically effective herbicide composition comprising as component (A) an herbicidally active amount of pyridate and as component (B) at least one 4-HPPD inhibitor selected from the group comprising triketones, pyrazolones, isoxazoles and other 4-HPPD inhibitors, wherein a weight ratio of components (A) and (B) is in a range up to 1000:1. The invention further concerns a kit comprising pyridate and at least one 4-HPPD inhibitor and a use of a herbicide composition according to the invention in an amount effective for controlling one or more types of unwanted vegetation by applying the herbicide composition to the unwanted vegetation and/or a habitat thereof.

^{21: 2021/00542. 22: 2021/01/26. 43: 2021/08/18} 51: G01N

^{71:} TOBACCO RESEARCH INSTITUTE OF CHINESE ACADEMY OF AGRICULTURAL SCIENCES

^{72:} Sun, Peng, Dai, Peigang, Ning, Yang, Hu, Haizhou, Yu, Weisong, Guo, Xianfeng, Lu, Shijun, Cao, Jianmin

33: CN 31: 2020101776886 32: 2020-03-13 54: METHOD, SYSTEM, STORAGE MEDIUM, AND TERMINAL FOR DETERMINING THE ECOLOGICAL CHARACTERISTICS REGARDING PRODUCING REGIONS OF FLUE-CURED TOBACCO

00: -

The present invention relates to detection technologies of flue-cured tobacco characteristics, and discloses a method, system, storage medium, and program for detecting aromatic characteristics with respect to flue-cured tobacco. The present invention collects and preprocesses parameters of the conventional chemical components of tobacco and the derived values; constructs weight assignment and assignment standard for the conventional chemical components of tobacco and the derived values; and analyses and evaluates the uploaded or downloaded basic data as per the evaluation standard model. Additionally, the present invention also edits and generates evaluation results in the form of electronic or paper reports that include charts and words. Regarding the present invention, the evaluation of aromatic characteristics with respect to flue-cured tobacco is essential to the quality and safety evaluation of flue-cured tobacco. Currently, evaluation of aromatic characteristics solely relies on professional sensory evaluation staff. This approach may be heavily affected by such factors as personnel disparity and evaluation standard. As such, detection of the same sample carried out by different persons may yield varying results. For such flaws, the corresponding remedy is provided in the present invention, whose promotion is significantly valuable across many sectors in tobacco farms, cigarette processors, and tobacco research institutes.



21: 2021/00552. 22: 2021/01/26. 43: 2021/09/07 51: C21C

71: SMS GROUP GMBH

72: Tim KLEIER, Christian IMIELA, Stephan SCHULZE, Jörg HERTEL, Benjamin WALLMEROTH, Reiner STAMMBERGER, Andreas RUNGE, Daniel BECKERS, Jürgen UNTERLOH, Malte BRAAM

33: DE 31: 10 2018 213 291.7 32: 2018-08-08 54: CONVERTER TORQUE SUPPORT 00: -

The invention relates to a method for operating a converter and to a support device for said converter. The converter is rotatably or tiltably mounted and rotatably coupled in a transmisison (4) via support pins (2) in said support device (100). The transmission is supported permanently on a base (12) via a torque support (6). In order to reduce the costs for a corresponding support device and, simultaneously, so as to be able to better control the torque exerted by the converter on the transmission, according to the present invention, the time-variable actual torque MIst (t) exerted by the converter on the transmission is controlled to a predefined target torque MSoll.



21: 2021/00586. 22: 2021/01/27. 43: 2021/08/19 51: F24H 71: ATMOR INDUSTRIES LTD. 72: VAHABA, Avi Avraham

33: US 31: 62/721,730 32: 2018-08-23 54: INSTANT WATER HEATER 00: -

An open-vented instant water heater is configured so as to prevent damaging thereof in cases of incorrect installation. The water heater comprises a water canister with a heating element and has a normally open outlet pipe, wherein the outlet pipe is provided with a flow sensing device comprising: a one-way valve which allows water to flow from the canister toward the outer end of the outlet pipe while preventing a water flow in the opposite direction, and/or a water flow mechanism adapted to switch the heating element OFF whenever detecting in the outlet pipe either a water flow towards the canister, or absence of any water flow.



21: 2021/00607. 22: 2021/01/27. 43: 2021/08/26

51: A01G; G01S

71: VALMONT INDUSTRIES, INC. 72: MOELLER, Mark, THATCHER, Tracy, A. 33: US 31: 62/723,663 32: 2018-08-28 54: SYSTEM AND METHOD FOR POSITION CORRECTION USING POWER LINE CARRIER COMMUNICATIONS 00: -

The present invention provides a method for aligning spans using real-time kinetics (RTK) data communicated through a power line carrier system. According to a further preferred embodiment, the method of present invention includes the steps of: receiving a first set of GPS location data and second set of RTK data; comparing the first set of GPS location data with the second set of RTK data; calculating RTK error correction data; creating an RTK error correction data signal containing RTK error correction data; modulating the RTK error correction data signal for transmission on a power line carrier; transmitting the RTK error correction data signal through a power line BUS onto a power line to a last drive tower; de-modulating the RTK error correction data signal; calculating the location of the last drive tower using the RTK error correction data; calculating a straight, center line between the pivot and the last drive unit; calculating the relative distances between each intermediate drive tower and the calculated center line; and controlling the speed or average run time of each intermediate drive tower to reduce distance between their current locations and the calculated center line.



21: 2021/00626. 22: 2021/01/28. 43: 2021/08/18 51: A61B

71: DE VILLIERS, Jacques Albert

72: EAVE, Dylan, DE VILLIERS, Christiaan Tertius, DE VILLIERS, Jacques Albert, BRIEDENHANN, Jeandré

33: GB 31: GB1810749.0 32: 2018-06-29

54: WIRELESS LARYNGOSCOPE 00: -

There is provided a wireless laryngoscope (10) comprising a body (12) formed as a single part. The laryngoscope includes a handle (14) extending along a first axis (36) and having a compartment (24) therein. An insertion member (16) extends from the handle towards a tip (22), and a mount (64) for a camera (18) is located towards the tip. A guide (56) for a cable extends between the mount (64) and the compartment (24). The compartment houses a power source (30) and a wireless transmitter (28) for transmitting digital images or video recorded by the camera. The mount includes a section of substantially straight tube that has a second axis (67) for holding the camera therein aligned with the second axis so that the camera observes a field of view at the tip of the insertion member.



The present invention relates to an illuminance adjustable LED underwater fish gathering lamp, comprising an LED light source, a fish finder and an illuminance regulation module, wherein the illuminance regulation module comprises a luminous intensity distribution model, a computation module, a fish shoal-targeted luminous intensity model, a central processing module and a regulation module. The central processing module is connected to the regulation module that is connected to the LED light source. The present invention further provides an application method of an Illuminance adjustable LED underwater fish gathering lamp, comprising the following steps: (1) turning on the LED light source; (2) carrying out a detection step by the fish finder; (3) calculating the illuminance of a target fish shoal; (4) calculating appropriate illuminance of the target fish shoal; (5) conveying the information obtained in (3) and (4) to the central processing module, and regulating the light source by the regulation module; and (6) centralizing the illumination on a hook. The power of the fish gathering lamp can be adjusted to realize the change of illuminance, so as to find and trap a target fish shoal more accurately at the most appropriate luminous intensity, which improve the fishing efficiency and yield.

21: 2021/00641. 22: 2021/01/29. 43: 2021/08/18 51: F21S 71: Shanghai Ocean University 72: Xinjun CHEN, Wei jie WANG, Zhong ZHANG, Guan yu HU, Wei YU 54: ILLUMINANCE ADJUSTABLE LED UNDERWATER FISH GATHERING LAMP AND ITS APPLICATION METHOD 00: -



21: 2021/00642. 22: 2021/01/29. 43: 2021/08/18 51: E02B

71: China University of Mining and Technology 72: Yanlong REN, Houquan ZHANG, Yanxin LIU, Yuliang WU, Weihao YANG, Haipeng LI 33: CN 31: 202010798924.6 32: 2020-08-11 54: METHOD FOR CONSTRUCTING CURTAIN BY GROUTING UNDERGROUND CONTINUOUS BLIND GROOVE IN BEDROCK RICH IN PORE WATER 00: -

Disclosed is a method for constructing a curtain by grouting an underground continuous blind groove in a bedrock rich in pore water, and relates to the technical field of mine engineering constructions. The invention includes the following steps: step 1: forming a plurality of vertical holes on the periphery of a mine shaft to be excavated; step 2: drilling horizontally from a bottom of any one vertical hole to two adjacent vertical holes to form a U-shaped unobstructed drill hole; step 3: passing a diamond rope through the U-shaped unobstructed drill hole, and forming a deep underground blind groove by means of rope saw cutting; step 4: repeating steps 2 and 3 to form further columnar deep underground continuous blind grooves; step 5: grouting into the columnar deep underground continuous blind groove, and forming a columnar underground continuous cement wall at a deep underground bedrock section rich in pore water. The invention can effectively cut off the connection between bedrock pore water and the well shaft, thereby greatly improving the flow cutoff, seepage prevention and leakage stoppage reliabilities of confined water of a deep porous bedrock, and guaranteeing the construction safety and well wall quality of the shaft at the bedrock section rich in pore water.



21: 2021/00656. 22: 2021/01/29. 43: 2021/08/18

- 51: A61K; A61P
- 71: CELLIX BIO PRIVATE LIMITED
- 72: KANDULA, Mahesh

33: IN 31: 201841032406 32: 2018-08-29 54: OPHTHALMIC COMPOSITIONS AND METHODS FOR THE TREATMENT OF EYE DISORDERS AND SKIN DISEASES 00: -

The invention relates to the compounds or its pharmaceutical acceptable polymorphs, solvates, enantiomers, stereoisomers and hydrates thereof. The pharmaceutical compositions comprising an

effective amount of compounds of formula I, formula II, formula III, formula IV, formula V and formula VI and the methods for the treatment of eye disorders and skin diseases and may be formulated for the topical eye drop, topical paste, ocular solution, device-drug delivery, oral, buccal, rectal, topical, transdermal, transmucosal, lozenge, spray, intravenous, oral solution, nasal spray, oral solution, cream, dermal ointment, gels, lotions, suspension, oral spray, buccal mucosal layer tablet, parenteral administration, syrup, or injection. Such compositions may be used to treatment of skin diseases such as acne, rosacea and eye disorders such as ocular redness, glaucoma, presbyopia, IOP, cataract, dry eye and oGVHD.

21: 2021/00658. 22: 2021/01/29. 43: 2021/08/18 51: B65D; B67C; B67D

71: Knyazev Sergey Vladimirovich, DATSINA, Dmitry Nikolaevich, SIMKIN, Oleg Aleksandrovich, BELYAEV, Leonid Mikhailovich, Kolesnikov Igor Nikolaevich

72: Knyazev Sergey Vladimirovich 33: RU 31: 2019108756 32: 2019-03-26 54: FITTING FOR A PET KEG

00: -

The claimed fitting for a PET keg comprises a cap with a central aperture having a means for connection to the neck of a keg, a hollow rod, a valve element, a spring, and a ring nut, wherein the rod is configured to have a first open end and a second closed end with an annular flange, the surface of revolution of the rod is provided with at least one port, the valve element is mounted on the rod such as to be capable of movement there along, a central aperture of the valve element has an inner annular shoulder configured for interaction with the annular flange of the rod and an outer annular shoulder configured for interaction with an annular flange of the cap, the spring is mounted between the valve element and the ring nut, the cap is configured in the shape of a mushroom and is connected to the ring nut by a threaded joint, apertures for the passage of gas are provided in the bottom part of the ring nut, a washer ring for hermetically sealing the join between the cap and the neck of a PET keg is disposed between the ledge of the mushroomshaped cap and the cylindrical surface of the stem thereof, and the valve element has grooves on its

outer surface to a height not exceeding an annular ledge configured on the outer annular shoulder.



21: 2021/00659. 22: 2021/01/29. 43: 2021/08/18 51: B65D; B67C; B67D

71: Knyazev Sergey Vladimirovich, Datsina Dmitry Nikolaevich, Simkin Oleg Aleksandrovich, Belyaev Leonid Mikhailovich, Kolesnikov Igor Nikolaevich
72: KNYAZEV, Sergey Vladimirovich
33: RU 31: 2019108746 32: 2019-03-26

54: FITTING FOR A PET KEG 00: -

The invention relates to closure structures for polyethylene terephthalate containers, which can be mounted on the necks of PET kegs for dispensing, storing and transporting beverages kept under pressure inside a PET keg. A fitting comprises a cap with a central aperture, a hollow rod, a valve element, a spring, and a ring nut. The rod is configured to have a first open end and a second closed end with an annular flange, the surface of revolution of the rod is provided with a port, and the rod has a valve element mounted thereon having an inner annular shoulder, which interacts with the annular flange of the rod, and an outer annular shoulder. The spring is mounted between the valve element and the ring nut, and the cap is configured in the shape of a mushroom and is connected to the ring nut by a threaded joint. Apertures are provided in the bottom part of the ring nut, and a washer ring is disposed between the ledge and the cylindrical surface of the cap. The valve element comprises a blind passageway which is open at the bottom end

and is closed at the top end by a thin seal. The technical result is a reliable, manufacturable and operationally safe fitting for a PET keg.



21: 2021/00711. 22: 2021/02/02. 43: 2021/08/25 51: H04W 71: CHANNEL TECHNOLOGIES FZE 72: CHATZISTAMATIOU, Antonios 33: ZA 31: 2020/00739 32: 2020-02-05 54: ELECTRONIC VOUCHER DISTRIBUTION ACCOUNT MANAGEMENT

00: -

A system and method for managing an electronic voucher distribution account are provided. A method, conducted by a server computer connected to a mobile telephone network in which an agent identifier is linked to an electronic voucher distribution account from which an electronic voucher can be distributed, includes, in response to receiving an event trigger notification, transferring a first amount from a service provider account to the electronic voucher distribution account. The method includes monitoring the mobile telephone network for a second predetermined event and, upon detecting occurrence of the second predetermined event, automatically transferring a second amount based on the first amount to a service provider account.



- 21: 2021/00807. 22: 2021/02/05. 43: 2021/09/09 51: H01R; H04Q
- 71: IP Source Manufacturers (Pty) Ltd
- 72: MOLLAGREAN, Anthony Kevin Leslie
- 33: ZA 31: 2020/00779 32: 2020-02-06

54: KEYSTONE MODULE MOUNTING ADAPTER 00: -

This invention relates to a mounting adapter for mounting one of a plurality of network cabling connectors of substantially equivalent external configuration to a round mounting hole pre-formed in a network cabling infrastructure mounting plate. The adapter comprises an adapter body which is formed with a connector receptacle. The connector receptacle is internally configured to be complemental to features of external configuration common to a plurality of substantially equivalent externally configured connectors. The adapter also comprises a mounting flange extending substantially about the adapter body. The mounting flange includes a rearwardly extending mounting platform which conforms to the round mounting hole preformed in the network cabling infrastructure mounting plate.



21: 2021/00811. 22: 2021/02/05. 43: 2021/09/08 51: B01D

71: SHANDONG UNIVERSITY OF SCIENCE AND TECHNOLOGY

72: ZHOU, Gang, ZHANG, Qingtao, LI, Shuailong, SUN, Biao, XU, Cuicui, HE, Min, LIU, Rulin, WANG, Yongmei, DONG, Xiaosu, MIAO, Ya'nan, CHEN, Xu, JIANG, Wenjing, WANG, Cunmin, LIU, Dong, MA, Yu, YANG, Yang, JING, Bin, NIU, Chenqian, ZHANG, Xinyuan, XING, Mengyao, WANG, Kaili, MENG, Qunzhi, KONG, Yang

33: CN 31: 201910426446.3 32: 2019-05-22 54: INTELLIGENT HYBRID WET / DRY DUST REMOVAL EXPERIMENTATION SYSTEM 00: -

An intelligent hybrid wet / dry dust removal experimentation system included three portions: a dust feeding system, a wet dust removal system, and a dry dust removal system. The dust feeding system provides the system with dust for experimentation. A dust concentration sensor (21) transmits a measured dust concentration value to a computer terminal (29), and then a signal is transmitted to a vibration frequency controller (1) to adjust a dust feeding rate. For the wet dust removal system, dust-laden airflow quickly enters an air inlet (3). Micron-level droplets generated by an ultrasonic atomization nozzle (5) pre-aggregate fine particles in the dust-laden airflow, and the signal is monitored, and then transmitted to the ultrasonic atomization nozzle (5) to adjust an atomization rate. The dustladen airflow having undergone pre-aggregation undergoes secondary acquisition by means of the dry dust removal system. An operating performance change pattern of a hybrid dry / wet dust removal system is acquired via testing by adjusting

parameters such as a filtration speed, a particle size, and a dust concentration.



21: 2021/00812. 22: 2021/02/05. 43: 2021/08/20 51: F16L 71: ASHIRVAD PIPES PVT. LTD 72: PODDAR, Deepak 33: IN 31: 201841025359 32: 2018-07-06 54: PIPE AND COUPLER JOINT WITH GROOVE AND MULTI LIP SEAL 00: -

The present disclosure discloses a pipe and coupler assembly (100) made of polyvinyl chloride is disclosed. The assembly include a pipe (101) having a first end (101a) and a second end configured with a plurality of outer threads (102). The assembly includes a coupler (103), comprising, a first coupling end and a second coupling end having a plurality of an inner threads (104). The first end of the pipe is non-removably coupled to the first coupling end. A locking means (107) is inserted in a first annular groove (105) formed in the first coupling end, to lock the first end of the pipe with the first coupling end. Further, a second annular groove (108) is defined in the flat portion (103c) of the coupler, and a first multi-lip sealing ring (109) is accommodated in the second groove (108) to form a fluid seal between the first end of the pipe and the first coupling end.



21: 2021/01008. 22: 2021/02/15. 43: 2021/08/27 51: A01N; A61K; C07K; C12N 71: AFFIMED GMBH 72: REUSCH, Uwe, KOCH, Joachim, TREDER, Martin, DULAT, Holger J. 33: EP 31: 18191031.6 32: 2018-08-27 54: CRYOPRESERVED NK CELLS PRELOADED WITH AN ANTIBODY CONSTRUCT 00: -

The application describes isolated human NK cells in a cryopreserved state, preloaded prior to freezing with an antibody construct, the antibody construct comprising at least a first binding domain binding to an NK cell receptor antigen on the cell surface of an immunological effector cell and a second binding domain binding to a cell surface antigen on the cell surface of a target cell, a method for preparation of cryopreserved preloaded human NK cells and pharmaceutical compositions comprising human NK cells which have been reconstituted from human NK cells in a cryopreserved state.

21: 2021/01104. 22: 2021/02/18. 43: 2021/09/08 51: C07K

71: Institute of Animal Science and Veterinary Medicine, Shandong Academy of Agricultural Sciences

72: Yu Jiang, Wu Jiaqiang, Zhang Yuyu, Chen Zhi, Sun Wenbo, Ren Sufang, Zhang Lin, Xu Minli, Jiao Jian

54: SOLUBLE CAP PROTEIN OF PORCINE CIRCOVIRUS TYPE 2 AND APPLICATION THEREOF

00: -

The present invention relates to the technical field of protein expression in biotechnology, in particular to a soluble Cap protein of porcine circovirus type 2 (PCV2). An aluminum-gel adjuvant vaccine made of the soluble Cap protein of PCV2 is safer than an oil emulsion adjuvant vaccine, and easily absorbed by swine vaccinated with underactive stress response. In addition, the average relative daily gain of aluminum-gel adjuvant vaccine is higher than that of ISA201VG adjuvant vaccine.



21: 2021/01201. 22: 2021/02/23. 43: 2021/09/08 51: G06F; H05K

71: ZHENGZHOU UNIVERSITY OF AERONAUTICS 72: Wu Qingtao, Li Qiang, Li Lingling, Zheng Xiaodong, Wang Jun, Wang Jie, Zhao Xuewu, Wang Hongmei

33: CN 31: 2020112932178 32: 2020-11-18 54: AUXILIARY BASIC BIG DATA ACQUISITION DEVICE

00: -Disclosed is an auxiliary basic big data acquisition device, comprising a supporting baseplate, a cooling mechanism, first clamping rods and adjusting bolts, wherein an upper end portion of the supporting baseplate is connected to a placing mechanism, the placing mechanism comprises two supporting lateral plates which are symmetrically arranged and connected with the supporting baseplate, the supporting lateral plates are provided with first through-holes and on each first through-hole is uniformly disposed first abutting balls, both ends of the first clamping rod are connected with a first clamping plate respectively; the first clamping plate and the first clamping rod are arranged in the first through-hole and clamped together, the first clamping plate is provided with a rotary handle and is further connected with a first connecting plate, on lateral plates are circularly and uniformly disposed threaded holes cooperating with the adjusting bolts. the adjusting bolts pass the first connecting plate to be connected with the threaded holes, on the first

clamping rod and the first clamping plate are provided a plurality of second through-holes, inside each second through-hole is clamping a second clamping rod and both ends of each second clamping rod are connected to a second clamping plate.



21: 2021/01315. 22: 2021/02/26. 43: 2021/09/13 51: A61K; C07C; A61P 71: SHANDONG UNIVERSITY OF TRADITIONAL CHINESE MEDICINE

72: LI, Feng, FENG, Shuai, LI, Jian

54: USE OF CICHORIC ACID IN PREPARATION OF DRUG AGAINST RESPIRATORY SYNCYTIAL VIRUS

00: -

The present invention discloses a new use of cichoric acid, that is, a use in the preparation of drugs against respiratory syncytial virus. The inventor of the present invention screened the antiviral ingredients in the plant Echinacea by using chemical methods of traditional Chinese medicine, and found the best antiviral active ingredient, cichoric acid by in-vitro antiviral efficacy experiments, and found that cichoric acid has the strongest in-vitro antiviral activity on respiratory syncytial virus (RSV) and is better than the control drug ribavirin.

21: 2021/03336. 22: 2021/05/18. 43: 2021/08/25 51: A01G; G05B

71: QINGDAO AGRICULTURAL UNIVERSITY 72: LEI ZHAO

54: AN INTELLIGENT MONITORING SYSTEM FOR AGRICULTURAL GREENHOUSES 00: -

The present invention discloses an intelligent monitoring system for agricultural greenhouses, where the acquisition unit is connected to the data processing unit, the data processing unit and the execution unit are connected to the communication unit, the communication unit is connected to the monitoring terminal, and the energy supply unit is connected to the acquisition unit, the data processing unit, the communication unit, the execution unit and the monitoring terminal; the acquisition unit comprises a video acquisition unit and a data acquisition unit. The temperature, light intensity and carbon dioxide concentration in the greenhouse are accurately acquired by the acquisition unit, displayed to the monitoring terminal in real time, and saved as historical data for easy recall and viewing, which not only improves the detection efficiency and accuracy, but also makes it more intuitive and convenient to operate.



21: 2021/03337. 22: 2021/05/18. 43: 2021/08/25 51: A01B; A01G

71: QINGDAO AGRICULTURAL UNIVERSITY 72: LEI ZHAO

54: AN AGRICULTURAL INTELLIGENT SEEDLING DEVICE

00: -

The present invention discloses an agricultural intelligent seedling device, comprising: a bottom plate, where multiple mobile wheels are distributed on the bottom of the bottom plate; a seedling box, where the seedling box is placed on the top of the bottom plate; a support frame, where the bottom of the support frame is fixedly connected to the top of

the bottom plate, and the seedling box is located in the support frame; a mobile water spraying mechanism, where the mobile water spraying mechanism is slidingly connected to the top of the support frame; and a control box, which is set on the top of the bottom plate and is electrically connected to the mobile water spraying mechanism.



21: 2021/03539. 22: 2021/05/25. 43: 2021/07/02 51: G06Q

71: BENLACHTAR, Yannis

72: BENLACHTAR, Yannis

33: ZA 31: 2020/07731 32: 2020-12-11

54: METHOD AND SYSTEM FOR UTILITY VENDING, PAYMENTS AND DEBT COLLATERALIZATION

00: -

Methods and systems are provided for utility vending, payments and debt collateralization. A method includes receiving a request for the advancing of the payment of a product or service on credit as a loan to a user, the user being associated with a utility meter. The user is determined as being eligible to be advanced the payment of the product or service as a loan. The amount requested is recorded against a loan account of the user. When notification is received of payment being tendered for either the vending of a prepayment utility voucher for the utility meter or towards the payment of a postpayment utility account associated with the utility meter, at least a part of the tendered payment is obtained and offset against the loan account of the user.



21: 2021/03621. 22: 2021/05/27. 43: 2021/06/23 51: E03B

71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, HOHAI UNIVERSITY 72: RONG, GUIWEN, CHEN, QINGQING, JIANG, HONGLING, DONG, ZENGCHUAN, DAI, HUICHAO, LI, GUOFANG, MAO, JINQIAO, ZHENG, TIEGANG, YUAN, YUE, DAI, YU, LIU, BO, WU, HAO 54: ROOF RAINWATER SOURCE CONTROL DEVICE BASED ON SPONGE CITY CONCEPT AND OPERATING METHOD

00: -

The present invention relates to the technical fields of rainwater source emission reduction and water resource protection, and particularly relates to a roof rainwater source control device based on a sponge city concept and an operating method. The invention comprises a control system, a rainwater removal system, a water storage system and a groundwater conservation system. The control system comprises a gate chamber, a radial gate, a hinged support, a hoist and a control unit. The rainwater removal system comprises an initial rainwater removal tank, a float level switch, an illumination sensor and a removal hole. The water storage system comprises a rainwater collection pipeline, a water storage tank, a water intake, an overflow pipe and a breather pipe. The groundwater conservation system comprises a rainwater control tank, groundwater conservation pipelines, a pile cap, culvert pipes and water penetration holes.

21: 2021/03808. 22: 2021/06/03. 43: 2021/08/10 51: H04L

71: UPSTREAM MOBILE COMMERCE LIMITED 72: FANDRIDI, Christini, KOTZALAS, Nikolaos, KATIDIOTIS, Apostolos, MILA, Natalia 33: ZA 31: 2020/07650 32: 2020-12-09 54: PROVIDING ENRICHMENT INFORMATION USING HYPERTEXT TRANSFER PROTOCOL SECURE (HTTPS)

00: -

A computer-implemented method and a system are provided for providing enrichment information using Hypertext Transfer Protocol Secure (HTTPS). The method includes: extracting and storing enrichment information received in a client handshake initiator packet for negotiating an encryption protocol for a network session of a Hypertext Transfer Protocol Secure (HTTPS) packet stream at a termination of a security protocol in a network; and obtaining one or more Hypertext Transfer Protocol (HTTP) requests by decrypting the Hypertext Transfer Protocol Secure (HTTPS) packet stream of the network session, and adding the enrichment information as a header to at least the first HTTP request being routed towards a server.



FIGURE 2A

21: 2021/03985. 22: 2021/06/09. 43: 2021/09/06 51: B23B; G01B

71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY

72: CHUANMING LI, DONGDONG PANG, GUOLIN ZHANG, KANG ZHOU, YULIN DOU, SHEN XI 54: AUTOMATIC DRILL HOLE LENGTH MEASURING DEVICE FOR DRILLING RIG OF CHAIN FEEDING STRUCTURE AND USAGE METHOD

00: -

The present invention relates to the technical field of measuring equipment, and in particular to an automatic drill hole length measuring device for a drilling rig of a chain feeding structure and a usage method. The present invention provides an automatic drill hole length measuring device for a drilling rig of a chain feeding structure, comprising a drilling rig speed measuring device which is arranged on a motor drive shaft of a drilling rig, a drill torque monitoring device which is arranged on a drive shaft of the output end of the drilling rig and a processor which is respectively connected to the first signal output end and the second signal output end through a conducting wire.



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: -

TBA



21: 2021/04058. 22: 2021/06/14. 43: 2021/06/29 51: A47J

- 71: ZHEUNG, Gordon
- 72: ZHEUNG, Gordon

33: ZA 31: 2017/06724 32: 2017-10-06

54: AUTOMATIC PORRIDGE COOKER, AUTOMATIC PORRIDGE COOKER ASSEMBLY AND METHOD OF COOKING PORRIDGE WITH AN AUTOMATIC PORRIDGE COOKER 00: -

The invention relates to an automatic porridge cooker comprising a cooking vessel; a heating means for heating the cooking vessel up to at least one predefined temperature; an agitator means located/locatable in the cooking vessel for rotating inside the cooking vessel at at least one rotational speed; and a central processing unit in communication with the heating means and agitator means for causing the heating means to heat up the cooking vessel to the at least one predefined temperature and agitator means to rotate at the at least one rotational speed. The invention also extends to a cooker assembly, a porridge cooker kit, a system of a porridge cooker and a method of cooking porridge with the porridge cooker.



21: 2021/04059. 22: 2021/06/14. 43: 2021/06/29 51: A47J 71: ZHEUNG, Gordon 72: ZHEUNG, Gordon 33: ZA 31: 2017/06724 32: 2017-10-06 54: AUTOMATIC PORRIDGE COOKER, AUTOMATIC PORRIDGE COOKER ASSEMBLY AND METHOD OF COOKING PORRIDGE WITH AN AUTOMATIC PORRIDGE COOKER 00: -

The invention relates to an automatic porridge cooker comprising a cooking vessel; a heating means for heating the cooking vessel up to at least one predefined temperature; an agitator means located/locatable in the cooking vessel for rotating inside the cooking vessel at at least one rotational speed; and a central processing unit in communication with the heating means and agitator means for causing the heating means to heat up the cooking vessel to the at least one predefined temperature and agitator means to rotate at the at

least one rotational speed. The invention also extends to a cooker assembly, a porridge cooker kit, a system of a porridge cooker and a method of cooking porridge with the porridge cooker.



21: 2021/04060. 22: 2021/06/14. 43: 2021/06/29 51: A47J

71: ZHEUNG, Gordon

72: ZHEUNG, Gordon

33: ZA 31: 2017/06724 32: 2017-10-06 54: AUTOMATIC PORRIDGE COOKER, AUTOMATIC PORRIDGE COOKER ASSEMBLY AND METHOD OF COOKING PORRIDGE WITH AN AUTOMATIC PORRIDGE COOKER 00: -

The invention relates to an automatic porridge cooker comprising a cooking vessel; a heating means for heating the cooking vessel up to at least one predefined temperature; an agitator means located/locatable in the cooking vessel for rotating inside the cooking vessel at at least one rotational speed; and a central processing unit in communication with the heating means and agitator means for causing the heating means to heat up the cooking vessel to the at least one predefined temperature and agitator means to rotate at the at least one rotational speed. The invention also extends to a cooker assembly, a porridge cooker kit, a system of a porridge cooker and a method of cooking porridge with the porridge cooker.



21: 2021/04062. 22: 2021/06/14. 43: 2021/09/01 51: B65F

71: Anhui University of Science and Technology 72: RUAN, Xueyun, SHI, Jincheng, GAO, Jian, ZHANG, Zhu, SONG, Yuzhong, ZHAO, Bao, JIA, Shilin, CHEN, Yingdong, YANG, Zheng, FU, Junjie 54: IOT (INTERNET OF THINGS)-BASED INTELLIGENT GARBAGE CLASSIFICATION CHAMBER

00: -

The present utility model discloses an IoT (Internet of Things)-based intelligent garbage classification chamber, comprising a site display, wherein an equipment box is fixedly connected to a bottom end of the site display, the equipment box is fixedly connected to the ground, a camera is fixedly connected to the bottom end, close to an edge, of the site display, a liquid crystal display is installed on a front wall, close to the edge, of the equipment box, hinges are arranged on the front wall of the equipment box, and a garbage door is rotationally connected to one end of each hinge. According to the present utility model, the problem that the urban garbage classification level is low can be effectively solved, the urban garbage classification level can be improved, intelligent and informationized management of the garbage chamber can be achieved, and manpower resources can be saved; the garbage chamber is simple in structure, safe and reliable in performance and low in cost; and due to a sterilization lamp in the garbage chamber, the garbage chamber is convenient to manage, bacteria
breeding in the garbage chamber is reduced, and the sanitation cleanliness is improved.

21: 2021/04063. 22: 2021/06/14. 43: 2021/09/01 51: H04N

71: Anhui University of Science and Technology 72: LING, Liuyi, ZHOU, Mengran, LIANG, Zhe, CAO, Zhenguan, WANG, Chengjun, HUANG, Yourui, HAN, Tao, XU,Shanyong, HU, Feng 54: PPM CODE GENERATION DEVICE FOR MINER PHYSICAL SIGN DETECTION VLC SYSTEM

00: -

The present invention discloses a PPM code generation device for a miner physical sign detection VLC system. The PPM code generation device mainly comprises a phase-locked loop module, a frequency division module, a main control module, a serial-to-parallel shift register module, an address generator module, a dual-port RAM module, a coding module and a parallel-to-serial shift register output module. According to the device, coding source data is grouped, a frame of data is stored into the dual-port RAM module in groups, and meanwhile, a decimal value of a group of data obtained from the dual-port RAM module is used as the number of shift bits of a shift register in the coding module, so that a corresponding PPM coding result is rapidly obtained, and coding time is shortened; and a code output clock is set by external input, so as to better match with different coding rates, and the PPM code generation device is suitable for complex communication environments of underground coal mine applications such as miner physical sign detection.

21: 2021/04171. 22: 2021/06/17. 43: 2021/09/01 51: A61L

71: Anhui University of Science and Technology 72: WANG, Zhiyuan, YANG, Huimin, ZHANG, Wei, XU, Runchen, DENG, Yingvin

54: HOUSEHOLD INTELLIGENT DISINFECTING AND PURIFYING DEVICE

00: -

The present invention provides a household intelligent disinfecting and purifying device. The purifying device includes a base. A U-shaped bracket is arranged on the base, pressingtype spray heads distributed in an array are arranged on inner walls of two sides of the U5 shaped bracket

respectively, and alcohol tanks distributed in an array are arranged on the two sides of the U-shaped bracket respectively. The pressing-type spray heads are connected with the alcohol tanks, vertical sliding plates are slidably arranged on side walls of the two sides of the U-shaped bracket respectively and the vertical sliding plates penetrate through the base. A driving mechanism configured to drive the vertical sliding plates to slide up and down is 10 fixed into the base. Extruding pieces configured to extrude the pressing-type spray heads are slidably arranged on the vertical sliding plates, and miniature air cylinders are arranged between the vertical sliding plates and the extruding pieces. A pulling-type ultraviolet disinfection cabinet is fixed to the U-shaped bracket, and a second driving mechanism configured to control over opening and closing of the ultraviolet disinfection cabinet is 15 arranged in the ultraviolet disinfection cabinet. The purifying device can spray the alcohol according to a height of an object, alcohol waste is avoided, and a disinfecting efficiency can also be accelerated. The second driving mechanism controls the storage tray to slide, and the ultraviolet disinfection cabinet is high in automation degree.

71: Anhui University of Science and Technology 72: Peng Jiecai, Wang Bin, Zhang Guisheng 54: METHOD FOR DETECTING THE INITIAL POSITION OF ROTOR AT STANDSTILL OF PERMANENT MAGNET SYNCHRONOUS MOTOR 00: -

The invention proposes a method for detecting the initial position of the rotor in the stationary state of a permanent magnet synchronous motor, first injecting voltage vectors along the stator direction of any phase, determining the appropriate voltage pulse injection time; then injecting a pair of basic space voltage vectors in positive and negative directions along the stator direction of the stationary state of the permanent magnet synchronous motor, and detecting and recording the three-phase current value of the permanent magnet synchronous motor immediately at the moment of the end of the action of each fundamental space voltage vector pulse; The sampled current values of each phase are algebraically accumulated, and finally the initial

^{21: 2021/04178. 22: 2021/06/18. 43: 2021/08/27} 51: H02P

position angle of the rotor of the permanent magnet synchronous motor is calculated according to the formula. The method of the invention does not require a large number of data operations, the implementation algorithm is simple, the implementation steps are simple, easy to implement, and the engineering practicality is high; and the method of detecting the initial position of the rotor when the permanent magnet synchronous motor is stationary is not limited by the rotor convex polarity, and it is applicable to both surface-mounted and embedded permanent magnet synchronous motors, so it has a wide range of application.

21: 2021/04348. 22: 2021/06/24. 43: 2021/09/01 51: B01D

71: Anhui University of Science and Technology
72: YANG, Liuyin, XU, Xiaohui
54: COMPREHENSIVE SEWAGE PURIFICATION
TREATMENT APPARATUS FOR

ENVIRONMENTAL ENGINEERING

00: -

The present invention discloses a comprehensive sewage purification treatment apparatus for environmental engineering, and belongs to the field of sewage purification treatment. The comprehensive sewage purification treatment apparatus for environmental engineering includes a bottom plate, outer cylindrical bodies, inner cylindrical bodies, upper covers, a rotating mechanism, a fixing frame, filter paper and locking mechanisms. Through the upper covers disposed at upper ends of the outer cylindrical bodies, primary filtration on sewage is realized, and the sewage subjected to primary filtration can totally fall into the inner cylindrical bodies for secondary filtration; through the rotating mechanism and the fixing frame disposed on the bottom plate, autorotation of the inner cylindrical bodies can be realized while performing revolution, so that the sewage in the inner cylindrical bodies can fast and sufficiently pass through the filter paper to complete the secondary filtration; through the locking mechanisms disposed on the outer cylindrical bodies, safety accidents such as human body injury caused by continuous rotation of a first rotating rod during replacement of the filter paper are avoided; and at the same time, the rotating rod can only rotate after the upper covers

are disposed on the outer cylindrical bodies, so that the sewage treatment effect is ensured.

21: 2021/04381. 22: 2021/06/24. 43: 2021/09/06 51: A61K; A61P

71: OCEAN UNIVERSITY OF CHINA 72: FU, XIAOTING, CHEN, XIAODAN, SONG, WENJIA

33: CN 31: 202011343324.7 32: 2020-11-26 54: ANTI-INFLAMMATORY REPAIR ESSENCE CONTAINING NATURAL ACTIVE COMPONENT AND PREPARATION METHOD THEREFOR 00: -

The present invention relates to the technical field of cosmetics, and particularly relates to an antiinflammatory repair essence containing a natural active component and a preparation method therefor. The present invention comprises an antiinflammatory repair essence containing a natural active component D-galactose-4-sulphate. The specific preparation method comprises the following steps: firstly, extracting and preparing freeze-dried powder of D-galactose-4-sulphate from porphyra yezoensis, preferably porphyra yezoensis from Shandong to the north of Jiangsu; and then weighing 0.5-10 parts of D-galactose-4-sulphate, 0.05-0.15 parts of carbomer, 0.01-0.02 parts of algin, 0.01-0.1 parts of hyaluronic acid, 6-12 parts of glycerine, 0.01-0.1 parts of flavor and the balance of water to 100 in parts by weight, stirring uniformly, and then disinfecting and sterilizing to prepare the essence.



21: 2021/04389. 22: 2021/06/25. 43: 2021/09/01 51: F16K

71: Anhui University of Science and Technology 72: ZHAO, Kaiping, XIE, Tian, HE, Tao, WANG, Chuanli, CHEN, Qiangman, WANG, Shun 54: MULTI-POSITION SIX-WAY INTEGRATED ROTATING VALVE BASED ON DOUBLE-SIDE ROTATION

00: -

The present invention relates to the technical field of a hydraulic multi-way valve, and particularly discloses a multi-position six-way integrated rotating valve based on double-side rotation. The multiposition six-way integrated rotating valve based on double-side rotation includes an upper rotating shaft, an upper bonnet, a compression spring I, an upper valve plate, a valve port bearing plate, a valve element, a lower valve plate, a compression spring II, a lower bonnet and a lower rotating shaft. The multi-position six-way integrated rotating valve based on double-side rotation provided by the present invention realizes multi-position switching and six-way multiple conduction modes through staggered rotation movement of the upper and lower valve plates relative to the valve element and special flow channel structures in staggered distribution inside the valve element, two-way non-return conduction or multi-way mixed communication in six ways can be freely achieved, and a flow control system is simplified.

21: 2021/04390. 22: 2021/06/25. 43: 2021/09/01 51: B23B

71: Anhui University of Science and Technology 72: YU, Caofeng, XIAO, Zhihao, CHEN, Zhuo, WANG, Yu, DUAN, Yongyong 54: CLAMPING DEVICE FOR USE IN FINE TURNING OF AUTOMOTIVE BRAKE DISC 00: -

The present invention relates to the field of clamping devices, and in particular, to a clamping device for use in fine turning of an automotive brake disc, and the following solutions are hereby proposed. The clamping device for use in fine turning of an automotive brake disc includes: a disc, a plurality of hollow posts being fixedly connected to one end face of the disc, a first post being disposed in each of the hollow posts, one end of the first post extending out of the hollow post, a through hole being formed at the other end of the first post, a first rod being slidably connected to the through hole, a plurality of sliding grooves in communication with the through hole being formed on a side face of the first post, a fixed rod being disposed in each of the sliding grooves, a gear wheel being fixedly connected to one end of the fixed rod, the gear wheel being rotatably connected to a corresponding sliding

groove, a rack corresponding to the gear wheel being disposed on a side face of the first rod, the gear wheel being meshed with the rack, a baffle being fixedly connected to one end of the first rod, the baffle being mated with the fixed rod. The present invention achieves the purposes of fixing a brake disc body and conveniently adjusting a position of the brake disc body, avoiding damage to an outer circular face of the brake disc body.

21: 2021/04391. 22: 2021/06/25. 43: 2021/09/01 51: D06F

71: Anhui University of Science and Technology 72: LUAN, Jingjing, CHEN, Tao, ZHANG, Liming, LUAN, Zhenhui **54: TRAY DRYER**

00: -

The present invention discloses a tray dryer. The tray dryer includes a housing. The housing has a rotary shaft disposed therein. The rotary shaft has thereon first heating trays distributed in an array and second heating trays distributed in an array. The housing has disposed thereon a hopper and an air extractor. Each of the first heating trays has a rake arm 5 disposed thereon. The rake arm has rake blades disposed thereon. The first heating tray includes a plurality of sector-shaped disks and has an inner vertical cylinder disposed thereon. The inner vertical cylinder is connected to the sectorshaped disks. Each of the sector-shaped disks has an input port provided on one side and an output port provided on an other side. According to the tray dryer of the utility model, the heating tray is divided into a plurality of 10 small sector-shaped disks, each of the small sector-shaped disks has disposed therein an arcuate plate and an arcuate block, and a circulation chamber is formed in the heating tray, thereby reducing a thermal stress in the heating tray and protecting a surface of the tray.

54: METHOD FOR MODIFYING RECYCLED FINE POWDER OF CONCRETE AND USE THEREOF 00: -

^{21: 2021/04392. 22: 2021/06/25. 43: 2021/09/01} 51: C04B

^{71:} Anhui University of Science and Technology 72: WANG, Liang, LIU, Zhiqiang, WANG, Hao, SHEN, Wenfeng, XU, Ying, WEI, Yubiao, YANG, Fan

The present disclosure discloses a method for modifying a recycled fine powder of concrete and use thereof. The method for modifying a recycled fine powder includes: S1: crushing a collected waste concrete block step by step with a crusher, grinding with a ball mill, and passing through a 100-mesh sieve, to obtain a recycled fine powder with d50 of 13.5 μ m; S2: placing the obtained recycled fine powder in a dry environment at a high temperature, drying, then taking out, and cooling to room temperature; S3: preparing tannic acid solutions with different concentrations, mixing the cooled recycled fine powder with the prepared tannic acid solutions, and continuously stirring by a glass rod.

21: 2021/04438. 22: 2021/06/25. 43: 2021/08/20 51: G06F 71: ZHUANG, WEI 72: ZHUANG, WEI 54: SEMANTIC ELEMENT EXTRACTION METHOD 00: -

The present invention relates to the technical field of information processing, and particularly relates to a semantic element extraction method. In the present invention a session message data is received comprising one of statements, data chaining and speech composed of natural language characters. Word segmentation and part-of-speech tagging are performed on the session message data to obtain word vectors. First feature elements corresponding to session message data according to word vectors and a first semantic rule state machine are obtained wherein each of the first feature elements corresponds to one of first recognition branches in the first semantic rule state machine and the first semantic rule state machine is pre-generated comprising a plurality of first recognition branches. Semantic features of the session message data according to the first feature elements and transformation rule corresponding to the first recognition branch that corresponds to each of the first feature elements are obtained.



21: 2021/04439. 22: 2021/06/28. 43: 2021/08/18 51: C10B

71: Anhui University of Science and Technology, Anhui Kunlang new energy Co., Ltd., China Coal Technology Engineering Group Chongqing Research Institute

72: Liu, Bingjun, Jin, Gang, Li, Yang, Yuan, Benqing, Yao, Tingting, Xu, Zunyu, Liu, Jun

54: A SYSTEM AND METHOD FOR PREPARING CLEAN COAL BY SELF-DRYING COAL SLIME OR LOW-RANK COAL 00: -

The invention discloses a system and method for preparing clean coal by self-drying coal slime or lowrank coal, comprising a coal slime/low-rank pulverized coal block-making device, a shaped coal running track, a heating chamber, a dry distillation chamber, a cooling chamber, a clean coal exiting kiln transfer chamber, a combustion chamber, a flue gas duct, a pump, an exhaust gas treatment device, an exhaust gas reuse pipeline, wherein the system controls the air pressure and exhaust gas reuse rate in the system through the pump and electronic control regulating valve. A gas mixing chamber is arranged outside the dry distillation chamber in the system, and the concentration of combustible gas and oxygen in the gas is controlled by an electronic control fan. A gas outlet pipepipe is installed in the dry distillation chamber, and a temperature sensor is installed on the top of the gas outlet pipe to monitor the temperature of the dry distillation chamber. The coal slime or low-rank coal processed by this system has low volatile and sulfur content and can be directly used for civil combustion.

21: 2021/04440. 22: 2021/06/28. 43: 2021/08/18 51: B01J

71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY

72: Cheng, Xiang, Wang, Yanfen, Huang, Shunjie, Qin, Zhihong, Wang, Song

54: STRAW AND COAL GANGUE BASED COMPOSITE ADSORPTION MATERIAL AND ITS PREPARATION METHOD

00: -

The present invention discloses a straw and coal gangue based composite adsorption material, which includes straw and coal gangue in a mass ratio of 75:25. During producing the composite adsorption material, straw and coal gangue are used as raw materials, and powdery materials are obtained through drying, crushing, sieving, after these treatments, the size of straw is 150 um, and the size of coal gangue is 75 um; the straw and coal gangue are then evenly mixed in a mass ratio of 75:25, after which they are put into the crucible and compacted and further subject to calcining treatment in a muffle furnace: being heated at a heating rate of 15C/min, being held at 500C for 30 minutes, and then at 815C for 60 minutes, thereby obtaining the finished composite adsorption material. The invention expands the use of straw and coal gangue. The invention has the advantages of simple preparation process, simple operation and low cost. When the product of the present invention is applied to the field of sewage purification, the effect is remarkable, and the adsorption performance is excellent.

21: 2021/04441. 22: 2021/06/28. 43: 2021/08/18 51: B03B

71: Anhui University of Science and Technology, Anhui Kunlang new energy Co., Ltd., China Coal Technology Engineering Group Chongqing Research Institute

72: Li, Yang, Jin, Gang, Liu, Bingjun, Yuan, Benqing, Yao, Tingting, Xu, Zunyu

54: A SYSTEM AND METHOD FOR PREPARING CLEAN COAL BASED ON LOW-

CONCENTRATION GAS REGENERATIVE OXIDATION

00: -

The present invention discloses a system for preparing clean coal based on low-concentration gas regenerative oxidation, which includes a gas transportation pipeline a regenerative oxidation device, a high-temperature regenerative chamber, a material transportation track, a dry distillation chamber, a cooling chamber, a transfer chamber, a exhaust gas reuse pipeline, a one-way door, a electronic control regulating valve, a exhaust gas treatment device, a barometric pressure sensor, a electronic control regulating valve, a crude coalgas output pipeline, a precipitation separation equipment, a desulfurization device, and a coalgas transportation pipeline; the low-concentration gas enters the regenerative oxidation device through the gas transportation pipeline; the high-temperature gas generated by the regenerative oxidation device enters the high-temperature regenerative chamber; the gas passing through the high-temperature regenerator enters the cooling chamber and the transfer chamber through the exhaust gas reuse pipeline, respectively; The crude coalgas output pipeline of the dry distillation chamber is connected to the precipitation separation equipment, set up a desulfurization device downstream of precipitation separation equipment, the desulfurization device connects to the gas transportation pipeline through the coalgas transportation pipeline. The coal slime or low-rank coal treated by the system has lower volatile and sulfur content which can be directly used for civil combustion.

21: 2021/04442. 22: 2021/06/28. 43: 2021/08/20 51: C05F; C05G

71: SHANDONG INSTITUTE OF POMOLOGY 72: HE, PING, LI, LINGUANG, WANG, HAIBO, CHANG, YUANSHENG, WANG, SEN, HE, XIAOWEN

54: PREPARATION METHOD FOR ORGANIC FERTILIZER FOR IMPROVING YIELD AND QUALITY OF APPLES 00: -

The present invention relates to a preparation method for an organic fertilizer for improving yield and quality of apples, and belongs to the field of environmental protection. The preparation method includes the following raw materials in parts by

weight: 20-35 parts of fruit tree branches, 10-15 parts of animal feces, 3-5 parts of trace elements, 2-3 parts of sucrose and 0.5-1 part of a mixture of lignin fungi and cellulose fungi. The present invention has great significance to solve the problem of resource utilization of plant wastes in orchards, such as trimmed branches of fruit trees, weeds in the orchards and fallen leaves of the fruit trees, and wastes in agriculture and animal husbandry, such as the animal feces and animal residues, reduce rural environmental pollution, improve the ecological environment, develop circular agriculture and achieve agricultural sustainable development.

21: 2021/04443. 22: 2021/06/28. 43: 2021/08/18 51: E21B

71: Anhui University of Science and Technology, Huainan Mining (Group) Co., Ltd., Anhui Kunlang New Energy Co., Ltd.

72: Liu, Bingjun, Jin, Gang, Li, Yang, Chen, Jian, Yao, Tingting

54: BIOLOGICAL HYDRAULIC FRACTURING INTENSIFIED COAL SEAM GAS EXTRACTION SYSTEM

00: -

The invention discloses a biological hydraulic fracturing intensified coal seam gas extraction system, which includes an downhole water tank, a straw extraction tank, a water tank, a high-pressure pump, an flameproof motor, and a fracturing pipeline arranged in sequence according to the flow direction of the system, self-priming pumps are respectively arranged between the downhole water tank and the straw extraction tank and between the straw extraction tank and the water tank. The innovation of the invention patent lies in the use of hydraulic fracturing to send microorganisms into the high gas coal seam, the biomass straw extract provides nutrients for the microorganisms, and the microorganisms can be attached to the crack surface of the coal and live on organic matter rich in side-chain oxygen-containing functional groups serving as the nutrient in the coal, to carry out metabolic activities, the metabolic activity of the microorganisms will accelerate the development of coal seam fissures, increase coal seam permeability, and effectively improve the efficiency of gas extraction of the coal seam, thereby ensuring the safe production of coal mines, therefore, it can be

used for high gas coal seams with poor air permeability.

21: 2021/04491. 22: 2021/06/29. 43: 2021/09/06 51: C02F

71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY

72: WANG, Lei, LV, Wenbao, LIU, Haizeng, QIU, Yibing

54: SEMI-OFF-LINE WEIGHING TYPE CONCENTRATION MEASURING DEVICE FOR SLIME WATER IN CONCENTRATION TANK 00: -

Disclosed is a semi-off-line weighing type concentration measuring device for slime water in a concentration tank for a coal washery comprising a pump feed pipe extending into a place for measuring concentration in slime water of a concentration tank, connected to a self-suction slurry pump which is connected to a pump discharge pipe, a weighing container having a conical bottom fixed to a bracket installed on a weighing tray which is installed on a weighing instrument; an outlet of the pump discharge pipe extends into an upper opening of the weighing container, suspended above the container; the upper end of the container is provided with the overflow pipe, and a plug-in flow switch is installed on a pipeline of the overflow pipe; the total weight of the weighing tray, bracket, the container and the slime water in the container is directly weighed by the weighing instrument.



21: 2021/04545. 22: 2021/06/30. 43: 2021/08/12 51: A01N

71: JINZHOU MEDICAL UNIVERSITY 72: JINGJING WANG 33: CN 31: 2021104764688 32: 2021-04-29 54: APPLICATION OF PHYSALIS PUBESCENS PERSISTENT CALYX EXTRACT 00: -

The present invention relates to the technical field of biological medicine and food, and particularly relates to an application of a Physalis pubescens persistent calyx extract. The present invention discloses a technical solution of applying a Physalis pubescens persistent calyx extract to preparation of health care products for auxiliary protection of liver and preparation of drugs for blocking occurrence and development processes of liver cancer. Various components in the extract achieve synergistic effects, have coordinated regulation targets and have significant effects of inhibiting liver cancer cells.



21: 2021/04585. 22: 2021/07/01. 43: 2021/08/18 51: C10L

71: Anhui University of Science and Technology 72: Liyi Fang, Mingxu Zhang

54: AN APPARATUS FOR HIGH-SULFUR COAL MICROBIAL DESULFURIZATION PROCESS 00: -

Disclosed is an apparatus for high-sulfur coal microbial desulfurization process, comprising of a water reservoir, a packed tower and a desulfurizer; said desulfurizer comprises several microbial reaction tanks; a feed inlet is set to the top of said desulfurizer; a feed valve is set to said feed inlet; a gas distribution pipe is set to the bottom of said desulfurizer; several exhaust ports locate at the end of gas distribution pipe inside the desulfurizer; an aerator is connected to said gas distribution pipe on the sidewall of the desulfurizer; a gas distribution valve is set to the end of gas distribution pipe outside the desulfurizer; said desulfurizer are connected to the packed tower through ventilation pipe on the top; a gas flowmeter and a ventilation one-way valve are set to the ventilation pipe; steam generator is set to the packed tower; a water filling line is connected to the top of said packed tower; one end of said water filling line which is away from the packed tower goes deep into the bottom of said water reservoir; said invention has the advantages of facilitating observation and control of the reaction process, improving the desulfurization efficiency of coal, and facilitating the discharge of coal after desulfurization.

21: 2021/04586. 22: 2021/07/01. 43: 2021/08/18 51: G01N

71: Anhui University of Science and Technology 72: Xue Weipei, Gao Cong, Zhang Hanwen, Meng Xiangqian, Chang Yu

54: MODEL DEVICE FOR TESTING PERFORMANCE OF THERMAL INSULATION MATERIALS OF DOUBLE FREEZING PIPES UNDER VERTICAL GROUND STRESS 00: -

The invention relates to a model device for testing the performance of double feezing pipe insulation material under vertical ground stress, which consists of a freezing model test chamber, a first freezing tube, a second freezing tube, a reflexively force frame, a temperature tester and a freezing control system. The device realizes the cooling capacity diffusing to the outside of the freezing tube through the continuous circulation of low-temperature alcohol in the freezing tube, so as to simulate the working condition of the freezing tube in the actual project. Pressure is applied by hydraulic cylinder above the soil layer to simulate the vertical ground stress on the freezing pipe; The temperature measuring points are arranged in layers in the freezing pipe and soil to obtain the variation law of temperature at the measuring points with time; It clarifies the diffusion situation and action range of cold energy between adjacent freezing pipes in the soil under the action of thermal insulation materials as well as the temperature distribution at different distances along the horizontal direction of the stratum; Moreover, based on this test device, the thermal insulation effect of thermal insulation materials in various soil layers can be obtained at one time, which provides important means for the performance test of thermal insulation materials during freezing construction.

21: 2021/04587. 22: 2021/07/01. 43: 2021/08/18 51: H01L

71: Northwestern Polytechnical University

72: Teng Duo, Yang Yixin

54: A Z-SHAPED PIEZOELECTRIC TRANSDUCER 00: -

A novel Z-shaped piezoelectric transducer is presented in this invention. Its main components include one radiating head, one tail mass, one front bending beam, two front piezoelectric stacks, one middle anti-phase piezoelectric stack, two rear piezoelectric stacks, one rear bending beam, while its accessories include some prestressed bolts, one housing, etc. Prestressed bolts and epoxy resin are used to fasten and glue front bending beam, rear bending beam, radiating head and tail mass, respectively, to the terminals of piezoelectric stacks in a certain arrangement, so that piezoelectric stacks will be formed as a Z-shaped configuration. Housing is combined with sealing rings to realize underwater sealing. The invention makes full use of interspace inner the transducer to increase, significantly, longitudinal effective length of piezoelectric and its sound power capacity. Based on suitable combination of longitudinal vibration mode of piezoelectric stacks and flexural vibration mode of bending beams, an underwater transducer with low frequency as well as a small size will be proposed. Moreover, such a transducer also has the advantages of simple structure, convenient manufacture, low cost, convenient assembly and dis-assembly. It will used in the equipment and device in the fields of detecting, communicating, prospecting, etc.

21: 2021/04610. 22: 2021/07/02. 43: 2021/08/18 51: E21C

71: Anhui University of Science and Technology, Huaibei Mining (Group) Co., Ltd.

72: Fan Tingyu, Yan Jiaping, Dong Xianglin 54: METHOD FOR REDUCING DAMAGE OF VEGETATION ROOTS DURING SURFACE COLLAPSE IN MINING AREA

00: -

The invention discloses a method for reducing the damage of vegetation roots in the process of surface collapse in mining areas, which relates to the protection technology of surface vegetation in underground mining areas. Before the collapse of the collapse area, the surface soil in the collapse area is humidified to reach its plastic limit water content, thereby reducing the binding force of the soil on the vegetation roots in the collapse area, reducing the strain on the vegetation roots in the process of cracking and deformation caused by the strength of the soil itself, and reducing the damage degree of the vegetation roots. The method has the advantages of simple operation, low cost and obvious benefit, and is suitable for large-scale popularization and use.

21: 2021/04611. 22: 2021/07/02. 43: 2021/08/18 51: E02D

71: Anhui University of Science and Technology 72: Guo Hui, Yan Jiaping

54: DESIGN METHOD FOR INITIAL FILLING ELEVATION OF THE SUBSIDENCE LAND RECLAMATION WITH COAL GANGUE FILLING 00: -

The invention discloses a method for designing the initial filling elevation of the subsidence land reclamation with coal gangue filling, which shows regional differences in block size and composition of natural coal gangue along with regional distribution, so that the subsidence of reclamation land based on coal gangue filling is different. Based on the investigation and classification of the block size of coal gangue, the block size combination (grain group) of natural coal gangue is divided into three categories: coarse, medium and fine, and the stable settlement deformation per unit filling thickness of different categories is taken as the design settlement deformation. It can be predicted the land subsidence in the reclamation area filled with coal gangue, and then provide experimental basis for the elevation design of land reclamation with coal gangue with different block characteristics as filling matrix. The method provided by the invention is more scientific than the single method of designing elevation according to experience, and the method is simple to operate, convenient and easy to implement, and has certain universality.

71: Shanghai Ocean University

72: Hu Qingsong, Tan Genghao, Chen Leilei, Li Jun 54: ONLINE MONITORING EQUIPMENT FOR MARINE INSTRUMENTS

^{21: 2021/04612. 22: 2021/07/02. 43: 2021/08/18} 51: G01R

00: -

The invention relates to a marine instrument online monitoring equipment, where the sensor lift slides are fixed to the side of the mounting platform; the sensor lift slides have a pair of orthogonal inner slides for vertical guidance. Sensor lifting slots downward into the sea below: sensor fixed snap includes sliding block for sliding with the inner slots, the sliding block has a slot, the slot is provided with an adjusting screw, the adjusting screw is connected with the sensor fixing clip, a pair of rubber soft cushions clamping the sensor. The column is fixed on the mounting platform, the sensor lifting mechanism is fixed on the column, and the sensor lifting mechanism is connected to the sensor to drive the sensor up and down along the sensor lifting slide. The camera is aligned with the mid-axis part of the sensor lift slide: the camera is used to collect image data of the growth of the attached material on the sensor after being lifted up and the working condition of the sensor at regular or irregular intervals.

21: 2021/04613. 22: 2021/07/02. 43: 2021/08/18 51: G06K

71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY

72: Zhao, Baiting, Jia, Xiaofen, Guo, Yongcun, Huang, Yourui

54: A METHOD OF COAL GANGUE IMAGES CLASSIFICATION BASED ON FEATURE MAP DIMENSIONALITY REDUCTION 00: -

The invention discloses a method of coal gangue images classification based on feature map dimensionality reduction, which comprises inputting the image to be classified/recognized into the convolutional neural network, and using the feature map dimensionality reduction method to reduce the dimensionality of all the high-dimensional feature maps of the image to be classified/recognized input by the pooling layer of the convolutional neural network, then using all the low-dimensional feature maps of the image to be classified/recognized by dimensionality reduction to continue downward operation to calculate the loss and then performing back propagating, and iterating until the loss value no longer decreases or accuracy percentage of the recognition does not increase, thereby obtaining the final classification/recognition result of the input image. The feature map dimensionality reduction method is specifically implemented as follows: Using all the high-dimensional feature maps of the image to be classified/recognized input by the pooling layer to construct an input image feature information matrix; extracting the principal component matrix of the feature information matrix of the images to be classified/recognized; initializing random variables, performing information weighting on the principal component matrix, and constructing a pooling matrix; constructing and restoring all lowdimensional feature maps of the images to be classified/recognized from the pooling matrix. The invention solves the problem of low accuracy of image classification when using the method of image classification.

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.

21: 2021/04647. 22: 2021/07/05. 43: 2021/09/01 51: C03B

71: Anhui University of Science and Technology

72: HUANG, Guodong, HU, Yaru, QI, Yue, SUN, Yuhua, YU, Qing

54: CEMENT MATERIAL GRINDING DEVICE 00: -

The present invention discloses a cement material grinding device. The grinding device includes a base. A movable member is disposed on the base. and a filter member is disposed on the base. A discharge conveyor belt is disposed on the base, a housing is disposed on the base, a processing box is disposed in the housing, chutes symmetrically distributed are provided on the processing box, a ring gear is disposed in the processing box, a first motor is disposed on a side of the housing, a threaded shaft and a guide rod are disposed on the housing, an output end of the first motor is tightly connected to the threaded shaft, mounting blocks symmetrically distributed are disposed on the housing, pushing plates symmetrically distributed are disposed on a side of the mounting block, a spring is disposed on a side of the pushing plate, and an end of the spring is tightly connected to the mounting block. In the grinding device of the present invention, a rotating shaft drives a baffle to rotate to centrifugally throw a cement material, and rotating rods rotate to drive stirring rods to perform crushing, so that an amount of operation is small, a crushing effect is adequate, and a filter member vibrates to throw the material for further crushing.

21: 2021/04648. 22: 2021/07/05. 43: 2021/09/01 51: C03B

71: Anhui University of Science and Technology 72: HUANG, Guodong, FENG, Yongqi, ZHANG, Ruijie, YANG, Manyi, LI, Yongyu, QI, Yue 54: ANTI-CRACKING AND ANTI-FREEZING CEMENT-BASED HOMOGENEOUS BOARD AND PROCESSING DEVICE THEREOF 00: -

The present invention discloses an anti-cracking and anti-freezing cement-based homogeneous board and a processing device thereof. The homogeneous board includes: anti-freezing protecting layers, binding layers, an elastic layer, a cement layer, and a reinforcing layer. The processing device includes: a bottom board, a connecting frame, a first motor, a first screw rod, a first guide rod, supporting boards, mounting boards, a second motor, a cutting machine, a movable board, connecting boards, transverse boards, connecting blocks, a second

screw rod, L-shaped rods, a third motor, first connecting rods, second guide rods, and second connecting rods. Compared with a conventional homogeneous board, the homogeneous board provided in the present invention has better antifreezing performance, higher self-strength, and stronger market competitiveness; and the processing device can replace manual work to precisely prune side edges of a produced homogeneous board, and has a better overall pruning effect and stronger practicability compared with conventional manual pruning, to resolve the problems that the overall strength of a homogeneous board in the related art is not high, and consequently it is easy for a surface cracking case to occur during pre-cooling; and side edges are pruned manually, and consequently it is difficult to ensure smooth pruning.

21: 2021/04649. 22: 2021/07/05. 43: 2021/09/01 51: C03B

71: Anhui University of Science and Technology 72: HUANG, Guodong, LI, Yongyu, CUI, Yi, ZHANG, Ruijie, WANG, Qi

54: MUNICIPAL SOLID WASTE INCINERATION BOTTOM ASH SELF-FOAMING LIGHT-WEIGHT MATERIAL AND PREPARATION METHOD 00: -

The present invention discloses a municipal solid waste incineration bottom ash self-foaming lightweight material and a preparation method. The method includes the following steps: firstly, uniformly mixing bottom ash, mineral waste residue micro powder and hydrated lime powder; and then, adding sodium hydroxide and liquid sodium silicate. The material is enabled to generate volume expansion by using the characteristic that the bottom ash foams and expands when meeting alkali, so that a purpose of light weight of the material is achieved. At the same time, rapid coagulation of the bottom ash lightweight material is achieved through the liquid sodium silicate, bubbles generated when the bottom ash meets the alkali are enabled to be capable of being sealed in the material, the foaming by a foaming agent is not needed for the preparation of the bottom ash light-weight material, and at the same time, the addition of a water reducing agent and a setting accelerator is not needed, so that the characteristics of low preparation cost, excellent

mechanical property and durability are achieved. At the same time, by using the bottom ash light-weight material, environmental pollution caused by accumulation of a great amount of bottom ash can be eliminated, the excessive dependence on Portland cement can be relieved, and the excessive consumption of non-renewable resources is reduced.

21: 2021/04681. 22: 2021/07/05. 43: 2021/07/14 51: A01K 71: STUBBS, David 72: STUBBS, David 33: GB 31: 1900517.2 32: 2019-01-15 **54: AN ANGLING DEVICE** 00: -

An angling device comprising a housing arranged with an arm with a pivot to the housing at a proximal end and a line capture jaw at a distal end, a location means for location of the line capture jaw in use on a line of an angling rod, and a mechanism for pivoting the arm from a second position where the line capture jaw locates on the line in a second location on the rod, to a first position where the line capture jaw locates on the line in a first location on the rod, wherein the mechanism is activated automatically after movement of the line to the second location on the rod.

21: 2021/04699. 22: 2021/07/06. 43: 2021/09/06 51: G01V; G05B 71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY 72: JIAZHUO LI, JIAQI CHU, WENHAO XIE, PENGHUI GUO, SONGYUE LI 54: WAVEFORM-LOADING COAL BODY CREEP IMPACT DISTURBANCE LOADING DEVICE AND TEST METHOD

00: -

The present invention relates to the technical field of testing of mechanical properties of rock, in particular to dynamic stress waveform-loading coal body impact disturbance loading applied under coal body creep conditions and application thereof, and more particularly relates to a waveform-loading coal body creep impact disturbance loading device and a test method. The waveform-loading coal body creep impact disturbance loading device comprises a base plate fixed at a testing position, a static loading hydraulic cylinder fixed on the top of the base plate, a dynamic loading hydraulic cylinder, a vertical disturbance rod, a fixture base plate, a force transmission rod, bearing plates and impact weights.



21: 2021/04706. 22: 2021/07/06. 43: 2021/07/14 51: F21S

71: HELLA GmbH & Co. KGaA

72: Gerhard Berger, Raimund Kerschbaummayr, Daniel Hochwarter

33: DE 31: 102019129100.3 32: 2019-10-29 54: HEADLIGHT FOR VEHICLES 00: -

The invention relates to a headlight for vehicles, comprising a light source, comprising a reflector arrangement containing at least one reflector module, comprising a first reflector, which has a reflector surface having a first focal point and a second focal point, the light source being arranged at the first fo-cal point, and comprising a second reflector, which has a reflector surface having a focal point that coincides with the second focal point of the first re-flector, wherein the first reflector is arranged in front of the light source in the main radiation direction, the reflector surface of the first reflector being curved, with a first opening portion arranged counter to the main radiation direction and with a second opening portion arranged in a manner offset by 90° in relation to the first opening portion and facing towards the second re-flector, and wherein the reflector surface of the second reflector has freeform parts such that light striking the reflector surface of the second reflector is re-flected in such a way that a light distribution having a predetermined light/dark boundary is produced.

21: 2021/04727. 22: 2021/07/07. 43: 2021/08/18 51: C12Q 71: Animal Products Quality and Safety Center of Shandong Province

72: Liu Shaoning, Chen Zhi, Xu Enmin, Yang Lin, Li Junling, Sun Wenbo, Feng Xiuguang, Zhang Qi, Feng Xinlei, Liu Jie, Yang Zhiguo, Bu Yanlin, Zhu Liangzhi

54: RPA DETECTION PRIMER SET, KIT AND METHOD FOR POLYMYXIN DRUG-RESISTANT GENE MCR-4

00: -

The invention discloses a RPA detection primer set, a kit and a method for RPA detection for polymyxin drug-resistant gene mcr-4. The invention relates to the technical field of molecular biology. It comprises a pair of primers and a probe, and provides a detection kit, a detection method for non-diagnostic treatment and application of a primer set. According to the invention, only a fluorescent detection instrument with a temperature control function is needed. The instrument can detect mcr-4 quickly, in real time, sensitively, accurately and conveniently at the temperature of 39C.

21: 2021/04728. 22: 2021/07/07. 43: 2021/08/18 51: E21D

71: Anhui University of Science and Technology 72: Zhou Shengquan, Li Qingping, Zhang Yongfei, Shi Minjie, Chen Wei

54: RECYCLABLE ANCHOR ROD WITH EXTERNAL FRICTIONAL NAILS 00: -

The invention discloses a recyclable anchor rod with external frictional nails, which comprises recyclable anchor rod, drill bit, enlarged disc, anchor head, air pressure pipe, anchor rod bracket, nut, helical ribs, external frictional nail outlets, external frictional nails, protection holes, signal transmitter, axial force meters, signal transmission line, springs, limiters, an upper gasket, a lower gasket and a circuit breaker layer. The invention has the beneficial effects that the external frictional nails can protrude out of the outlets of the external frictional nail under the impact of air pressure, and can be embedded into surrounding rock and soil by using high-pressure gas, thus achieving better anchorage effect; axial force meter is fixed on the side of each external frictional nail, and the axial force meter is connected with a signal transmitter through the signal transmission line, which is convenient for transmitting axial force signals, so that the signal

transmitter can input high voltage into the circuit breaker layer through the signal transmission line to cause the circuit breaker layer disconnected, and separate the external frictional nails from the recyclable anchor rod, thus facilitating the later pulling out of the recycle anchor rod.

21: 2021/04729. 22: 2021/07/07. 43: 2021/08/18 51: E21B; E21D

71: Anhui University of Science and Technology 72: Fang Yu, Yao Zhishu, Cheng Hua, Rong Chuanxin, Cai Haibing, Huang Xianwen, Wang Xuesong

54: RETRACTABLE WELL WALL JOINT SUITABLE FOR DEEP STRATUM AND ITS CONSTRUCTION METHOD 00: -

The invention discloses a retractable well wall joint suitable for deep stratum and a construction method . The utility model is characterized in that a circular cylindrical body with a "interlocking elliptical ring" structure is arranged in cross section, with an upper flange at the top and a lower flange at the bottom. A first annular elliptic vertical plate, a second annular elliptic vertical plate, and a third annular elliptic vertical plate are arranged between the upper flange and the lower flange to carry longitudinal. The outer periphery of the circular cylindrical body bears horizontal pressure by the arc-shaped outer side of the first circular elliptical vertical plate that bridges between the upper flange and the lower flange; The inner circumference of the cylindrical body is located on the third ring-shaped elliptical vertical plate and is provided with asphalt injection holes; the remaining ring-shaped elliptical vertical plates are respectively provided with through slurry injection holes; Several shrinkable joints can effectively reduce the vertical additional force acting on the shaft wall and ensure the safety of the shaft wall structure. Field test results show that the shrinkable shaft wall joints are under high vertical loads. It has the advantages of good vertical shrinkability, high pressure relief ability, strong waterproof ability, and good load-bearing stability. The implementation of this technology can effectively prevent the shaft wall structure from being damaged due to the vertical force, save the later maintenance cost of the shaft wall structure, and ensure the safety of coal mine excavation.

21: 2021/04759. 22: 2021/07/07. 43: 2021/08/18 51: H02B

71: QINGDAO YIHE ELECTRIC GROUP CO., LTD. 72: KONG, Xiangchong, GAO, Xiang, GUAN, Zhuging, SONG, Dewen, LIANG, Jianfeng, ZHANG, Ping

33: CN 31: 2019113986721 32: 2019-12-30 54: SWITCH CABINET PRESSURE RELIEF **DEVICE AND SWITCH CABINET**

00: -

The present invention relates to a switch cabinet pressure relief device and a switch cabinet. The switch cabinet pressure relief device comprises a pressure relief bottom plate provided with a plurality of openings, pressure relief side plates are detachably connected to both sides of an upper surface of the pressure relief bottom plate, an explosion-proof plate assembly is detachably fixed to the upper surface of the pressure relief bottom plate, the explosion-proof plate assembly comprises multiple layers of explosion-proof plates, and in two adjacent layers of explosion-proof plates, the distance between the two explosion-proof plates on the lower layer is greater than the distance between the two explosion-proof plates on the upper layer; a mesh plate assembly is arranged above the explosion-proof plate assembly, two ends of the mesh plate assembly are detachably fixed to brackets, the brackets are fixedly connected to the two pressure relief side plates.

21: 2021/04766. 22: 2021/07/07. 43: 2021/08/20 51: B03D; C02F

71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY

72: HAN, YOULI, WANG, XING, ZHU, JINBO, WANG, PO, ZHU, HONGZHENG, ZHOU, WEI, WANG, CHAO

54: EFFICIENT COAL SLIME WATER **CONCENTRATION TANK**

00: -

The present invention belongs to the technical field of coal slime water treatment, and particularly relates to an efficient coal slime water concentration tank. The water concentration tank comprises a concentric tank body composing an upper side wall, an inclined bottom, a middle side wall and a bottom plate. The inclined bottom connects the lower end of the upper side wall and the upper end of the middle side wall which are not on the same horizontal plane. The inclined bottom is indirectly connected to the

concentration tank body and at an angle. The upper end of the annular partition plate arranged above the middle side wall is lower than the upper end of the upper side wall. The distance between the annular partition plate and the upper side wall is a free settlement region connected with the interior of the concentration tank body.



21: 2021/04767. 22: 2021/07/08. 43: 2021/08/18 51: B01D

71: Anhui University of Science And Technology 72: Cui Jiuyun, Xie Atian, Liu Yin, Pan Yusong **54: PREPARATION METHOD OF AN ACID** ALKALI AND SALT RESISTANT PVDF COMPOSITE MEMBRANE FOR OIL-WATER SEPARATION

00: -

The invention belongs to the technical field of environmental functional materials and chemical separation, and relates to a preparation method of an acid alkali and salt resistant PVDF composite membrane for oil-water separation. The acid alkali and salt resistant PVDF composite membrane for oilwater separation disclosed by the invention has superhydrophilic/underwater superoleophobic properties, and can be used for efficient separation of oil-water emulsions in complex environments. The invention also discloses a preparation method of the acid alkali and salt resistant PVDF composite membrane for oil-water separation, which comprises the following steps: firstly, prepare a polyvinylidene fluoride/graphene oxide (PVDF/GO) hybrid membrane; Then prepare PVDF/GO membrane modified by KH-570 (KH-570(at)PVDF/GO); Finally, polymerize acrylic acid and ethylene glycol dimethacrylate (EGDMA) on the surface of KH-570(at)PVDF/GO membrane, and obtain the PVDF composite membrane with acid and alkali resistance. According to the invention, the acid, alkali, salt resistant PVDF composite membrane prepared

through polymer crosslinking can be effectively applied for separating the oil-water emulsion in a complex environment.

21: 2021/04768. 22: 2021/07/08. 43: 2021/08/20 51: B05D; B27K; E04F 71: JILIN INSTITUTE OF CHEMICAL TECHNOLOGY 72: LOU, Dawei, SHI, Junyou, ZHANG, Hao, XU, Wenbiao

33: CN 31: 202110689801.3 32: 2021-06-21 54: METHOD FOR FINISHING SUPER-HYDROPHOBIC SELF-CLEANING SOLID WOOD COMPOSITE FLOOR BOARD 00: -

The present invention relates to the technical field of hydrophobic materials and indoor and outdoor decoration, in particular to a method for finishing a super-hydrophobic self-cleaning solid wood composite floor board comprising the steps: 1. conducting plasma cleaning and activation on a wood composite floor board; to obtaining an epoxy nanometer titania sol; 2. obtaining a vinyl nanosilicon dioxide; obtaining a polymer grafted nanosilicon dioxide; obtaining a self-repair material; obtaining a super-hydrophobic material for standby. 3. uniformly coating the surface of the substrate treated in the step 1 with the super-hydrophobic material prepared in the step 2, conducting drying and curing, putting a product into the vacuum drying oven and taking the product out for natural cooling.

21: 2021/04769. 22: 2021/07/08. 43: 2021/08/20 51: E21D 71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY 72: LI, FENGHUI, CHENG, YUNHAI, WANG, GUOPU, LI, GANGWEI, YAN, QIFENG, PAN, ZEXIANG, GU, YUMING 54: SEGMENTED HOLLOW GROUTING ANCHOR CABLE AND USE METHOD 00: -

The present invention belongs to the technical field of geotechnical engineering support, and particularly relates to a segmented hollow grouting anchor cable and a use method. A segmented hollow grouting anchor cable comprises an anchor cable body and a segmented hole sealing device, wherein the anchor cable body comprises a cable body, a tail body nut, and a backing plate. The backing plate is installed on the cable body. The cable body on one side of the backing plate is in threaded connection with the tail body nut, wherein the segmented hole sealing device comprises a hole sealing plug arranged on the cable body. A casing pipe is sleeved on the outer side of the hole sealing plug and one side of the casing pipe is sleeved with a fixing frame. A grout fixing bag is arranged inside the fixing frame.



21: 2021/04784. 22: 08/07/2021. 43: 2021/07/22 51: A01N; C07D 71: ORO AGRI INC. 72: BERG, PAULO SERGIO, PULLEN, MELVIN DONOVAN, BARNARD, DIRK, VANDERZYL, JARED 33: US 31: 62/789,657 32: 2019-01-08 33: US 31: 62/789,649 32: 2019-01-08 33: US 31: 62/789,656 32: 2019-01-08 54: AN AGRICULTURAL COMPOSITION 00: -

This disclosure generally relates to an agricultural composition including an anti-pathogenic compound and a chemical activator, wherein the fungicide and chemical activator provide a synergistic interaction in the control of pathogens typically found in plants crop, trees, fruits, vegetables, leaves, stems, roots, seeds, flowers, animals, equipment, stockyards, feedlots, barns, animal housing units, farm tools, farm buildings, storage areas, or food contact areas.



21: 2021/04785. 22: 08/07/2021. 43: 2021/07/22 51: A01N

71: ORO AGRI INC.

72: BERG, PAULO SERGIO, PULLEN, MELVIN DONOVAN, BARNARD, DIRK, VANDERZYL, JARED

33: US 31: 62/789,656 32: 2019-01-08 33: US 31: 62/789,649 32: 2019-01-08 33: US 31: 62/789,657 32: 2019-01-08 54: A LIQUID AGRICULTURAL ADJUVANT 00: -

This disclosure provides for a liquid agricultural adjuvant, comprising: at least one alkyl $(C_1 - C_8)$ ester of an alkyl $(C_{12} - C_{16})$ acid; at least one anionic surfactant; and at least one nonionic surfactant. The liquid agricultural adjuvant has a flash point higher than about 100°C; and the at least one alkyl $(C_1 - C_8)$ esters of alkyl $(C_{12} - C_{16})$ acid has a paraffinic wax dissolution capability of between 2 wt. % to 20 wt. % at 25°C. The disclosure extends to a method of manufacturing the liquid agricultural adjuvant according to the first aspect and methods of use, typically wherein an agricultural field of endeavor.

21: 2021/04788. 22: 08/07/2021. 43: 2021/07/22 51: A01N; A01P

71: ORO AGRI INC.

72: BERG, PAULO SERGIO, PULLEN, MELVIN DONOVAN, BARNARD, DIRK, VANDERZYL, JARED

33: US 31: 62/789,657 32: 2019-01-08 33: US 31: 62/789,649 32: 2019-01-08 33: US 31: 62/789,656 32: 2019-01-08 54: A LIQUID ANTI-PATHOGENIC AGRICULTURAL COMPOSITION 00: -

A stable, safe and synergistic liquid anti-pathogenic agricultural composition is provided typically for use as an insecticide, fungicide, nematicide and/or miticide, characterized by having a high flash point and an epicuticular wax compatibility. The composition is typically used in foliar applications and/or in irrigation systems. The liquid antipathogenic agricultural composition comprises at least one alkyl $(C_1 - C_8)$ ester of an alkyl $(C_{12} - C_{16})$ acid; at least one anionic surfactant; and at least one nonionic surfactant. A method of preparing one or more anti-pathogenic compositions is also provided, and use of same as a treatment to control pathogens (in diluted form) applied to crop, trees, fruits, vegetables, leaves, stems, roots, seeds, flowers, animals, equipment, stockyards, feedlots, barns, animal housing units, farm buildings or storage areas.



21: 2021/04797. 22: 2021/07/09. 43: 2021/08/27 51: E04B 71: Yantai Harbin Engineering University Research Institute 72: Guo Yanhong 54: GRAFT POLYURETHANE-BASED COMPOSITE DAMPING MATERIAL WITH ADJUSTABLE STIFFNESS AND ITS PREPARATION METHOD 00: -

The invention provides graft type polyurethanebased composite damping material with adjustable stiffness and its preparation method. It is cured by grafting polyurethane main chain prepolymer, branched chain prepolymer, magnetic particles and crosslinking agent. The content of magnetic particles is 20-100% of the total prepolymer mass of the grafted polyurethane matrix; the molar ratio of -NCO in the grafted polyurethane main chain prepolymer matrix to -OH of the crosslinking agent is 1:1.2. The beneficial effect of the present invention is that the peak value of the loss factor (tan) of the damping material can reach 1.7, and reach more than 0.3 in a wide temperature range. The preparation process of the invention is simple; the damping performance is good, so it can be used as a damping material in the fields of vibration and noise reduction, semi-active dampers and the like.

21: 2021/04798. 22: 2021/07/09. 43: 2021/08/27 51: G06Q

71: Zhengzhou University of Aeronautics

72: Fan Yuqing, Song Zhigang, Zhang Yanqi, Liu Hao, Gao Honghu

54: AN IN-TRANSIT LOGISTICS INFORMATION SUPERVISION SYSTEM AND METHOD THEREOF 00: -

Disclosed is an in-transit logistics information supervision system, comprising RFID tag; said RFID tag inputs product information through RFID reader; said RFID reader is connected to the server through the network; said RFID tag is attached to the logistics goods; logistics carrier is equipped with RFID scanning device; and said RFID scanning device is connected to the vehicle-mounted computer through data line; said vehicle-mounted computer is connected to the server through the Internet of Things, and said server is connected to the input terminal and the guery terminal through the network; said query terminal can receive query through web guery terminal and mobile guery terminal; compared with the prior art, this invention has advantages of being able to inquire about the transportation vehicle information and the transportation location of the goods in real time, facilitate customers to allocate goods according to the progress of logistics, realize the sending and receiving and application of goods with the greatest efficiency, thus avoid blind waiting; said invention is

convenient to realize the query through mobile and web terminals.

21: 2021/04799. 22: 2021/07/09. 43: 2021/08/27 51: B25H

71: Zhengzhou Railway Vocational and Technical College

72: Li Donghao, Guo Yingfei, Feng Shenshen, Yang Liu, Yuan Yuan, Hou Huijun, Yan Yan

33: CN 31: 202110659913.4 32: 2021-06-11 54: A TOOLBOX FOR FIELD SURVEY OF CONSTRUCTION PROJECTS 00: -

The present disclosure claims a toolbox for field survey of construction projects, comprising: a main box body, wherein an upper part of the main box body is a first storage cavity; a lower part of the main box body is a first cavity, and an opening is provided at a side of the first cavity in which a first sub-box body is movably arranged; an upper part of the first sub-box body is a second storage cavity; a lower part of the first sub-box body is a second cavity, and an opening is provided at a side of the second cavity in which a second sub-box body is movably arranged; a first marking pin storage slope benching, wherein a side plate of the first storage cavity close to a high end of the first marking pin storage slope benching is a removable plate; a multi-cavity storage box, wherein openings of cavities are located on a side of the multi-cavity storage box, and drawers are arranged in cavities; a first lifting structure is arranged between the bottom of the second storage cavity and the multi-cavity storage box; and a connecting column, wherein the connecting column is connected with multiple storage bags. According to the present disclosure, tools can be conveniently taken and placed through a drawer structure nested layer by layer, and containers for placing tools can be completely displayed in the taking-out process, thus further improving the taking-out efficiency.

21: 2021/04800. 22: 2021/07/09. 43: 2021/08/27

72: Dingxin Li

The present invention relates to a yoga mat reeling device, including a framework equipped with a feed

^{51:} A63B

^{71:} Zhengzhou University of Aeronautics

^{33:} CN 31: CN202011033833X 32: 2020-09-27 54: DEVICE FOR REELING THE YOGA MAT 00: -

mechanism, provided with a guide mechanism on one end to drive the end of the yoga mat to the reeling mechanism, which is set on one side of the guide mechanism. The reeling mechanism includes a fixed disc set on one end of the framework, a first motor is set on one side of the fixed disc, a turning disc is rotatable set on the other side, driven by the first motor. The inner cavity of the turning disc is provided with two second motors. Two reeling parts are rotatable set on the turning disc, each second motor can drive the rotation of its corresponding reeling parts. The pressing part is movable set on the framework, used for pressing the reeling parts on the near side of the guide mechanism, one end of the reeling parts is rotatably connected to the pressing part. The device can synchronize the automatic feeding and discharging of yoga mat through the reeling mechanism, which improves the reeling efficiency of the yoga mat.

21: 2021/04801. 22: 2021/07/09. 43: 2021/08/27 51: G01N

71: Anhui University of Science and Technology 72: Zhou Ruihe, Huang Xianwen, Wang Xuesong, Zhang Liangliang, Guo Longhui, Cao Dongli, Su Yi 54: MULTIFUNCTIONAL TRUE TRIAXIAL TESTER FOR ROCK AND SOIL AND AN INSTRUCTIONS FOR OPERATION

00: -

The invention discloses a multifunctional true triaxial tester for rock and soil and an instructions for operation. The device comprise a bench, wherein the top end of the bench is mounted with a force applying part and a pressure chamber; Rock and soil samples are placed inside pressure chamber; Rock and soil samples connect with pressure chamber by linkage; Liquid supply section connecting with inside chamber is installed outside the pressure chamber; The top of the bench is in rigid connection with connecting plates. The pressure chamber comprises a confining pressure cylinder which is in rigid connection with the top end of the connecting plate; The top end of the confining pressure cylinder is detachably connected with an end cover through a seal; A placing plate is arranged in the confining pressure cylinder; Bottom of placing plate abuts against the top of connecting plate; Bottom of rock and soil samples abuts against the top of placing plates. According to the invention, the rock and soil

samples can be automatically put into or taken out of the pressure chamber; The damage of artificial factors to the rock and soil samples is reduced; The detection efficiency of the rock and soil samples is improved, and the peripheral temperature of the rock and soil samples can be controlled at the same time, so that the accuracy of performance detection of the rock and soil samples is improved.

21: 2021/04802. 22: 2021/07/09. 43: 2021/09/06 51: H04M

- 71: Yancheng Institute of Technology
- 72: Sheng Hui

54: MOBILE PHONE WITH A HIDDEN EARPHONE HOLE SWITCH 00: -

The invention relates to a mobile phone with a hidden earphone hole switch, comprising a mobile phone body, a rectangular groove, an earphone hole, a holding tank, and an earphone hole switch. There is a rectangular groove on the upper part of the mobile phone body, and the earphone hole is located in the rectangular groove. The rectangular groove is adjacent to the holding tank, and the earphone hole switch can reciprocate between the rectangular groove and the holding tank. The parts where the earphone hole switch contacts the rectangular groove and the holding tank are magnetic, and the magnetic properties are different. When the earphone is inserted, the headphone hole switch is retracted into the body of the mobile phone, and is fixed by the magnetic suction on the side wall of the holding tank. When the earphone is pulled out, the headphone hole switch can be pushed out under the external thrust to close the earphone hole. When there is no external force, the earphone hole switch relies on the magnetic attraction of the side wall of the rectangular groove to keep the position unchanged. The mobile phone with the hidden earphone hole switch of the present invention greatly increases the aesthetics of mobile phones and can prevent water, dust or other foreign objects from entering the earphone hole.

^{21: 2021/04803. 22: 2021/07/09. 43: 2021/08/27}

^{51:} C09K

^{71:} Qingdao Agricultural University

^{72:} Wang ChunHua, Lu XiaoQing, Wang RiXu, Deng ZhiHan, Mu Ping

54: SALINE LAND IMPROVER FOR WHEAT CULTIVATION

00: -

The present invention discloses a saline land improver for wheat cultivation, the components include sulfur powder, grass charcoal, sodium alginate, chrysanthemum, saponaria, mulberry leaf, platelet root, sweet potato powder, egg shell powder. The invention is suitable for use when wheat is planted in saline land for wheat. Mixing the improver into the soil or spreading it on the tillage layer can neutralize the soil alkalinity, dilute the salt ions in the soil, retain water and animal fertilizer, enhance the disease resistance of wheat, and make a good foundation for yield increase.

21: 2021/04804. 22: 2021/07/09. 43: 2021/08/27 51: A01C; G01N

71: Qingdao Agriculture University 72: Liu Shutang, Liu Jintao, Nan Zhenwu, Zhao Longgang, Wei Wenliang, Zhao Yonghou 54: METHODS FOR CHARACTERIZING SOIL NITROGEN MINERALIZATION 00: -

The present invention provides a method for characterizing soil nitrogen mineralization, using a field in situ - anion and cation exchange resin method, study on the effect of long-term application of nitrogen fertilizer and its combination with phosphorus and potassium fertilizers on the in situ mineralization characteristics of nitrogen in noncalcareous tidal soils in the field and crop nitrogen uptake and yield, to study its relationship with nitrogen uptake and yield of crops. Soil and plant total nitrogen were determined by Kjeldahl method, and NO3-N and NH4+-N in soil and ion exchange resin bags were extracted with 2mol/L KCl solution, filtered and determined by dual wavelength UV spectrophotometry and Nessler's reagent colorimetric method, respectively. The invention provides a theoretical basis for the sustainable development of soil nitrogen nutrient pools in agroecosystems and the regulation of soil nitrogen supply in the region and the achievement of high crop yields.

21: 2021/04842. 22: 2021/07/12. 43: 2021/08/27 51: C08G; C08L

71: Anhui University of Science and Technology

72: Yang Ji-nian, Xu Yu-xuan, Nie Shi-bin 54: MODIFIED NICKEL PHYLLOSILICATE AND PREPARATION METHOD THEREOF AND EPOXY RESIN COMPOSITES 00: -

The invention discloses a method for preparing a modified nickel phyllosilicate, which comprises: the silane coupling agent, 9,10-dihydro-9-oxa-10phosphaphenanthrene-10-oxide and triphenylphosphine are mixed at a certain weight proportion, and then subjected to a grafting reaction under the heating reflux. The resulted grafting product and a soluble nickel compound are dissolved in a solvent to obtain a precursor solution, which is then added into a strong alkaline aqueous solution and mixed uniformly. After aging and solidliquid separation, a modified nickel phyllosilicate is obtained by washing and drying the precipitate. This invention also discloses a modified nickel phyllosilicate and epoxy composites containing the modified nickel phyllosilicate. The modified nickel phyllosilicate provided by this invention can significantly improve the anti-wear and flameretardant properties of epoxy resin simultaneously, and the prepared epoxy composites have high flame retardancy and high wear resistance, which can be applied to fields that require high safety performance.

21: 2021/04843. 22: 2021/07/12. 43: 2021/08/27 51: E21D

71: Anhui University of Science and Technology 72: Liu Xiaohu, Yao Zhishu, Huang Xianwen, Wang Xuesong, Li Xinwei, Zhou Ruihe, Wang Jiaqi 54: FAST LOADING DEVICE AND AN ANCHOR PROPULSION DEVICE FOR FULL-LENGTH ANCHORAGE SUPPORT PROCESSING 00: -

This present invention provides a fast loading device and an anchor propulsion device for full-length anchorage support processing. The resin anchoring agent for the full-length anchorage support is loaded into the fast loading device and then conveyed to the anchor hole; The anchor propulsion device sends the anchor rod into the anchor hole to propel and compact the resin anchoring agent, so that the resin anchoring agent is evenly filled in the anchor hole. Semi-circular tubes are mounted on both ends of the fast loading device are and a whole cylinder in the middle. Working properly with the existing supporting

machinery, the auxiliary construction equipment such as the fast loading device for resin anchoring agent for the full-length anchorage and the anchor propulsion device described in the invention, allows a fast, labor-saving and safe construction process of the resin anchoring, which provides a strong guarantee of construction quality and safety for the next deep mining of the coal mine.

21: 2021/04844. 22: 2021/07/12. 43: 2021/08/27 51: E21B

71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY

72: Zhang, Tong, Yuan, Liang, Zhao, Yixin, Zhu, Guangpei, Jiao, Zhenhua, Wang, Shaolei, Liu , Shuai, Lv, Xin

54: GREEN AND WATER-RETENTION SYSTEM FOR COAL-URANIUM COORDINATED EXPLOITATION AND THE APPLICATION METHOD THEREOF

00: -

The invention discloses a green and water-retention system for coal-uranium coordinated exploitation, which includes a freezing mechanism, a pumping and injecting mechanism, a water storage mechanism and an excavation supporting mechanism; the freezing mechanism includes a freezing shaft; the pumping and injecting mechanism includes a pumping well and a injection well; the water storage mechanism includes a security coal pillar, a groundwater reservoir, and an advanced drainpipe; the excavation supporting mechanism includes a tunneller, a coalcutter, a scraper conveyor, and a hydraulic support; wherein, the freezing shaft in the freezing mechanism freezes the periphery aquife centering the pumping and injecting mechanism at a certain radius, the pumping and injecting mechanism performs the in-situ uranium mine exploitation; the excavation supporting mechanism stopes the coal seam; the water storage mechanism stores and purifies the aquife water body in the broken roof; finally, under the reasonable cooperation of the four mechanisms, the coaluranium safe coordinated exploitation is realized while the ground water is recycled and purified and the goal of green, water-retention and multi-resource coordinated exploitation is reached.

21: 2021/04845. 22: 2021/07/12. 43: 2021/08/27

51: G01N

71: Anhui University of Science And Technology 72: Cai Chuanchuan, Ge Tao, Zhang Mingxu 54: TEST METHOD FOR MORPHOLOGICAL SULFUR IN COAL 00: -

The present invention discloses a method for testing morphological sulfur in coal. The present invention achieves the purpose of optimizing the steps based on the national standard of the morphological sulfur test method, and some of the steps omitted, at the same time, ICP-MS inductively coupled plasma mass spectrometry was used instead of atomic spectrophotometer in the iron sulfide content testing, and the experimental results showed that the testing time was simplified and the testing speed was accelerated (ICP-MS can be used for batch testing).

21: 2021/04853. 22: 2021/07/12. 43: 2021/09/01 51: H04H

71: Anhui University of Science and Technology 72: BU, He, WANG, Lei, QIN, Xiaowei 54: MOBILE TRANSMISSION TERMINAL FOR DOWNHOLE SAFETY INFORMATION 00: -

The utility model relates to a mobile transmission terminal for downhole safety information. The terminal includes a main board and an auxiliary board. The main board includes a controller module, a display module, a random number module, and a low-power wireless transmission module. The auxiliary board is composed of an environmental information collection module and a localization module. The terminal collects downhole data including environmental parameters and location information by using the environmental information collection module and the localization module, displays the collected data by using the display module, and packs the data by using the controller module for transmission. At this point, a serial number of a verification terminal for downhole safety information is randomly generated by the random number module, and the packed data is transmitted by the low-power wireless transmission module to a corresponding verification terminal for verification. After the verification is passed, the verification terminal transmits the data to a platform. Since the generated random number is unpredictable, the verification terminal cannot be known in advance, which improves the safety and the reliability of

transmission of safety information of coal mines. The low-power wireless transmission module adopted in the transmission terminal enhances the reliability and the flexibility of the transmission terminal, and in the meanwhile reduces costs of the transmission terminal

21: 2021/04854. 22: 2021/07/12. 43: 2021/09/01 51: H04W

71: Anhui University of Science and Technology 72: LI, Dequan, FANG, Runyue, SHEN, Xiuyu 54: DISTRIBUTED RANDOM FOREST METHOD FOR RISK ASSESSMENT OF COMMUNICATION NETWORK

00: -

The present invention discloses a distributed random forest method for a risk assessment of a communication network, the method including: a data preprocessing stage, an off-line model training stage, and an on-line prediction stage, where training data is partitioned into an optimal number of partitions at the data preprocessing stage, so that a proposed model is capable of accelerating parallel and distributed training tasks; the partitioned data is partitioned into a training set and a test set, and then a random forest model for training is constructed by using spark; and finally an on-line prediction is performed by using the trained model. The present invention addresses disadvantages of conventional risk assessment methods for a communication network and can provide reliable risk assessment results. In addition, the method improves the efficiency of centralized machine learning methods in terms of big data processing, saves time costs, improves the efficiency of big data processing during risk assessments, and in the meanwhile avoids the problem of centralized traffic overloading.

21: 2021/04855. 22: 2021/07/12. 43: 2021/09/01 51: C04B; E04F

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.

21: 2021/04856. 22: 2021/07/12. 43: 2021/09/01 51: E21C; G09B

71: Anhui University of Science and Technology 72: SUN, Jian, YANG, Yong, CHEN, Yunsheng 54: SERIAL INFLATION CAPSULE SYSTEM FOR SIMULATING COAL SEAM MINING IN THREE-DIMENSIONAL SIMILARITY EXPERIMENT AND METHOD FOR OPERATING THE SAME 00: -

The present invention discloses a serial inflation capsule system for simulating coal seam mining in a three-dimensional similarity experiment and a method for operating the same, and relates to the field of three-dimensional similarity experiments for coal seam mining. The system includes inflatable bags, an inflation pipe, U-shaped pipes, deflation valves, a gas pressure meter, an inflation pressure regulator, an inflation valve, an inflation controller, and a simulated to-be-mined coal seam. By means of the serial inflation capsule system for simulating coal seam mining, controllable excavation of a threedimensional similarity model in a confined space and realistic reproduction of an original stress status of a to-be-mined coal seam can be realized, and a true simulation of step-by-step excavation of the coal seam consistent with actual coal seam mining, especially section-by-section excavation of the coal seam can be realized. In addition, an excavation speed for the simulated to-be-mined coal seam can be controlled by controlling a deflation speed and a deflation interval of the deflation valves in the serial inflation capsule system for simulating coal seam mining.

^{71:} Anhui University of Science and Technology 72: WANG, Liang

21: 2021/04859. 22: 2021/07/12. 43: 2021/09/01 51: B01D

71: Anhui University of Science and Technology 72: SUN, Jian, XU, Jianqiang

54: APPARATUS AND METHOD FOR BLOCKING LARGE FLOWING-WATER CHANNEL WITH WATER INRUSH INTEGRATING DRILLING, MESHED FRAME, BALLOON, AND GROUTING 00: -

The present invention discloses an apparatus and method for blocking a large flowing-water channel with water inrush integrating drilling, a meshed frame, a balloon, and grouting. Compared with conventional blocking technologies, the blocking technology integrating a meshed frame, a balloon, and grouting can enhance the stability of a blocking body, and the adoption of gas-liquid exchanging can improve the stability of the blocking body in flowing water. When water inrush occurs at a certain position in a roadway, firstly, the ground is drilled through, and a drill pipe is inserted to a bottom of a water inrush channel. Then, a stretchable meshed frame in the drill pipe is deployed to form a crisscross frame in the water inrush channel, that is, a meshed frame. Secondly, a balloon in the drill pipe is deployed by inflating such that the balloon fits a cross section of the water inrush channel to form a blocking balloon for the water inrush channel that is attached to the meshed frame. Finally, cement mortar is injected into the blocking balloon to exchange a gas out of the balloon through the drill pipe by using a gas-liquid exchange structure, and the cement mortar is cured to produce a cured stone solid and to finally form a packing wall for blocking the water inrush channel, so as to control water inrush of the large channel within a local range.

21: 2021/04902. 22: 2021/07/13. 43: 2021/08/18 51: E21B

71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY

72: Yuan, Liang, Zhang, Tong, Zhao, Yixin, Liu, Shuai, Lv, Xin

54: GREEN SYSTEM FOR COAL AND OIL-GAS COORDINATED EXPLOITATION AND THE APPLICATION METHOD THEREOF 00: -

The invention discloses a green system for coal and oil-gas coordinated exploitation and the application

method of the system. The green system for coal and oil-gas coordinated exploitation includes a coordinated exploitation mechanism, a coalcutter mechanism, and an oil-gas exploitation mechanism, the coordinated exploitation mechanism includes an oil-gas passageway, an overburden subsidence funnel, an oil loose range and a coalface; the coalcutter mechanism includes a coalcutter, a hydraulic support and a scraper conveyor; the oilgas exploitation mechanism includes a main airexhaust bore, an air-exhaust branch pipe, a main oilpumping bore and an oil-pumping branch pipe. In the present invention, wherein the location and size of the coordination mechanism and the corresponding subsidence and water-retention exploitation process are determined in accordance with requirements, the coal seam gas in the coal seam is pumped by the main air-exhaust bore and air-exhaust branch pipe through the oil-gas passageway. Then the coal seam is stoped with the coalcutter mechanism. Oil loose range in roof and floor produced in the rear of coalface contributes to the resolution and dissociation of oil resource in the upper and lower part of the coal seam, use the oilgas exploitation mechanism to pump oil-gas of different types in different beds, after the oil-gas pumping is finished, the oil-gas passageway is recycled with the coalcutter mechanism, finally realizing reaching the goal of green coal and oil-gas coordinated exploitation.

21: 2021/04905. 22: 2021/07/13. 43: 2021/08/18
51: A01K
71: Qingdao Agricultural University
72: ZHENG, Qingzhu
54: SPECTACULAR FISH CULTURING METHOD AND AQUARIUM FOR SPECTACULAR FISH
CULTURING
00: The present invention relates to a spectacular fish

I he present invention relates to a spectacular fish culturing aquarium, comprising an aquarium, a filter pool, a disinfection device, a circulating water pump, a water outlet pipe, a water feeding pipe, a water discharging pipe, a filter and a heating device; and beneficial effects of the present invention are that: (1) In the present invention, the UV lamp is installed in the silica tube in a circulating water path, so that the whole water body can be disinfected with missing any area. (2) Disinfection distance is short, disinfection effects are good, and bacteria killing rate is 100%. (3) The circulating water pump and the UV lamp are separate, and can be individually controlled. (4) The shell which is not light transmissible can prevent harm from the UV light to human eyes and skin. (5) The disinfection device is integrated with the aquarium and sold together.

21: 2021/04907. 22: 2021/07/13. 43: 2021/08/18 51: G01N

71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY

72: Yuan, Liang, Zhang, Tong, Zhao, Yixin, Liu, Shuai, Lv, Xin

54: GREEN AND PRECISE SYSTEM FOR COAL-URANIUM COORDINATED EXPLOITATION 00: -

The invention discloses a green and precise system for coal-uranium coordinated exploitation, which includes a CT scanning subsystem for geographic spaces, an unmanned exploitation subsystem, a safe exploitation subsystem, a green exploitation subsystem, and a digitally informationized automatic machinery mine controlling subsystem. In the present invention, a CT scanning subsystem for geographic spaces is used for conducting the perspective scanning and performing the true three dimension reversion on the mineral resource occurrence environment, an unmanned exploitation subsystem, a safe exploitation subsystem and the green exploitation subsystem coordinately control and complete the intelligentized and unmanned safe green exploitation according to the three dimension reversion data and in combination with a digitally informationized automatic machinery mine controlling subsystem, then the intelligentized and unmanned safe green exploitation is realized based on the above-mentioned subsystems and supported by the unmanned exploitation subsystem module for the multi-physical field measuring and monitoring and intellisence etc., the safe exploitation subsystem module for disaster risk identification and disaster intelligentized preventing and controlling etc., the green exploitation subsystem for monitoring, preventing and controlling of overburden movement and monitoring on flowing water body.

21: 2021/04928. 22: 2021/07/13. 43: 2021/08/18 51: C06B

71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY

72: ZHANG, XINGYAN, XIE, XINGHUA, WANG, ZI, YANG, GUANG, WANG, XUERUI, CUI, DIAN, SUN, PENG, ZHOU, HUISHENG, ZHU, MAOLIN, WANG, HANXIN, XIE, QIANG, ZHI, LINGLI, DU, MINGRAN 54: ELECTRIC-FIRING POWDER HEAD FOR DETONATOR 00: -

The present disclosure relates to an electric-firing powder head for a detonator, which does not contain a primary explosive DDNP, and adopts amino sodium picrate as a sensitizing component of the electric-firing powder head to play an auxiliary sensitizing role. The electric-firing powder head for a detonator provided by the present disclosure can solve the problems of unsafety of an electric-firing powder head with the primary explosive, high cost of an electric-firing powder head without the primary explosive, etc. The electric-firing powder head does not contain the primary explosive, has very great guarantee in terms of safe production, safe storage, safe transportation and safe operation, and has a simple structure, high reliability and high safety.

21: 2021/04929. 22: 2021/07/13. 43: 2021/08/18 51: C06B

71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY

72: XIE, QIANG, XIE, XINGHUA, WANG, ZI, YANG, GUANG, WANG, XUERUI, CUI, DIAN, SUN, PENG, ZHANG, XINGYAN, ZHU, MAOLIN, WANG, HANXIN, ZHOU, HUISHENG, ZHI, LINGLI, LI, HONGWEI, LI, XUEJIAO **54: HIGH-ENERGY NONEL TUBE** 00: -

The present invention relates to the field of civil explosive materials, and in particular to a composition of a high-energy nonel tube. In the highenergy nonel tube, a non-metal material such as plastic is adopted as a housing packaging material used for packaging an agent of dinitrotoluene (DNT), hexogen (RDX) and pentaerythrite tetranitrate (PETN), or a combination thereof. The nonel tube includes the following raw materials in percentage by mass: 15-95% of DNT and 5-85% of RDX or PETN. The specific gravity of a non-high-energy singlecompound explosive in an explosive core of the high-energy nonel tube of the present disclosure is relatively larger, which changes the current situation that currently transmitting detonation waves by the

nonel tube at a low speed can only play a role in ignition, but cannot detonate the explosives. With the high-energy nonel tube, explosion can be propagated, and the explosives can be directly detonated.



21: 2021/04930. 22: 2021/07/13. 43: 2021/08/18 51: H01M

71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY

72: ZHI, LINGLI, XIE, XINGHUA, WANG, ZI, YANG, GUANG, WANG, XUERUI, CUI, DIAN, SUN, PENG, ZHANG, XINGYAN, ZHU, MAOLIN, WANG, HANXIN, ZHOU, HUISHENG, XIE, QIANG, LIU, SHANGHAO, LI, RUI

54: METHOD FOR EXPLOSIVELY SYNTHESIZING NANOSCALE LITHIUM IRON PHOSPHATE BATTERY MATERIAL

00: -

The present invention relates to a novel method for preparing a nanoscale lithium iron phosphate cathode lithium battery material and more specifically, a method for explosively synthesizing a nanoscale lithium iron phosphate battery material. The invention includes the following steps: a. preparing a special mixed explosive with a density of 0.9-1.2 g/cm3; b. placing the special mixed explosive in an explosive device with a volume of 44 L; and c. detonating the explosive charge, collecting an explosive product, and conducting screening and heat treatment on the product. The method of the present disclosure explosively synthesizes a nanoscale lithium iron phosphate electrode material with an uniform phase, good dispersion among particles and stable product thermochemical properties.



21: 2021/04931. 22: 2021/07/13. 43: 2021/08/18 51: C06C; F42C

71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY

72: ZHI, LINGLI, XIE, XINGHUA, WANG, ZI, YANG, GUANG, WANG, XUERUI, CUI, DIAN, SUN, PENG, ZHANG, XINGYAN, ZHU, MAOLIN, WANG, HANXIN, ZHOU, HUISHENG, XIE, QIANG, LIU, SHANGHAO, LI, RUI

54: MINIMIZED PRIMARY EXPLOSIVE FOR DETONATOR

00: -

The present invention relates to an explosive for a detonator, and more particularly, a minimized primary explosive. The present invention solves the problems of insecurity of a detonator with a primary explosive and high cost of a detonator without the primary explosive. The present disclosure includes more than one high explosive and more than one primary explosives. The high explosives include hexogen (RDX) and pentaerythrite tetranitrate (PETN); the primary explosives include dinitrodiazophenol (DDNP), lead azide, lead trinitroresorcinate, nickel hydrazine nitrate (NHN) and cadmium tricarbohydrazide perchlorate (GTG), and the more than one high explosive are mixed with the more than one primary explosives for use. Additional binders and surfactants can also be used.

21: 2021/04932. 22: 2021/07/13. 43: 2021/08/18 51: C06B 71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY

72: XIE, QIANG, XIE, XINGHUA, WANG, ZI, YANG, GUANG, WANG, XUERUI, CUI, DIAN, SUN, PENG, ZHANG, XINGYAN, ZHU, MAOLIN, WANG, HANXIN, ZHOU, HUISHENG, ZHI, LINGLI, LI, HONGWEI, LI, XUEJIAO 54: DNT-CONTAINING COMPOSITE PRIMARY EXPLOSIVE

00: -

The present invention relates to a primary explosive, and in particular, to a DNT-containing composite primary explosive. The present invention discloses a DNT-containing composite primary explosive, which includes dinitrotoluene (DNT) and a primary explosive, wherein the mass percentage of DNT is 10%-45%; and the primary explosive is one or a mixture of several ones of dinitrodiazophenol, lead azide, mercuric fulminate, lead trinitroresorcinate, nickel hydrazine nitrate and a GTG primary explosive. The DNT-containing composite primary explosive of the present disclosure has higher production safety, lower cost and better pressure resistance than a minimized primary explosive and a pure primary explosive.

21: 2021/04933. 22: 2021/07/13. 43: 2021/08/25 51: A23L

71: HEILONGJIANG BAYI AGRICULTURAL UNIVERSITY

72: CHUNHONG WEI, XIUJIE JIANG, CAIXIA JIANG, YONGHONG GAO

54: MULTIGRAIN PANCAKE BIOLOGICAL SELF-RAISING FLOUR AND PRODUCTION METHOD AND APPLICATION THEREOF

00: -

The present invention relates to traditional food pancakes in the field of food, and particularly relates to a multigrain pancake biological self-raising flour and a production method and application thereof. The present invention adopts a specific technical solution as follows: the multigrain pancake biological self-raising flour is prepared by mixing 22% of biological multigrain fermented powder, 76% of plain flour, and 2% of vitamin C by mass, comprising: putting 22% of biological multigrain fermented powder into 76% of plain flour, and adding 2% of vitamin C as a strain protective agent, to obtain the multigrain pancake biological self-raising flour.

21: 2021/04934. 22: 2021/07/14. 43: 2021/08/18 51: F24F

71: Anhui University of Science and Technology 72: Zhao Lixia, Yao Zhishu, Huang Xianwen, Wang Xuesong, Xue Weipei, Li Xinwei, Zhou Ruihe 54: HIGH-EFFICIENCY FREEZING WALL COLD ENERGY RECOVERY AND UTILIZATION DEVICE AND OPERATION METHOD 00: - The invention discloses a high-efficiency freezing wall cold energy recovery and utilization device and operation method, which comprises a cold absorber installed in the freezing wall and a water cooling mechanism and an air cooling mechanism communicated with the cold absorber; the air cooling mechanism comprises a water tank, a blower, a heat exchanger and an air jet head; a water inlet pipe and a water outlet pipe are connected to the cold absorber; a water supply pump is installed on the water inlet pipe, and the water inlet of the water inlet pipe and the water outlet of the water outlet pipe are both arranged in the water tank; the heat exchanger is installed in the water tank, which is communicated with an air inlet pipe and an air outlet pipe; the heat exchanger is communicated with a blower through the air inlet pipe and a jet head through the air outlet pipe; the water outlet pipe is communicated with a shunt pipe which is provided with a valve; the water cooling mechanism is communicated with the water outlet pipe through the shunt pipe. Through the highefficiency freezing wall cold energy recovery and utilization device provided by the invention, the cold energy of the freezing wall is well utilized, and energy waste is avoided.

51: G06T; H04N

71: Jin Huilong

72: Jin Huilong, Zhao Jia, He Mingzhong 54: MEDICAL IMAGE WATERMARKING METHOD BASED ON SEQUENCE EVEN SPREAD SPECTRUM

00: -

The invention discloses a medical image watermarking method based on sequence even spread spectrum, which comprises the following steps: S101, obtaining a pseudo-random sequence, wherein the pseudo-random sequence adopts a sequence even, and the sequence even comprises a sequence X and a sequence Y; Sequence X is used to embed watermark in medical image, and sequence Y is used to extract watermark from medical image embedded with watermark. S102, at the medical image sending end, based on the sequence X, a two-dimensional discrete cosine transform is used to embed the digital watermark into the medical image, and the medical image after embedding the digital watermark is sent to the

^{21: 2021/04935. 22: 2021/07/14. 43: 2021/08/18}

medical image receiving end. S103, at the receiving end of medical image, based on sequence Y, twodimensional discrete cosine transform is used to extract the digital watermark from the medical image embedded with digital watermark. The method can effectively improve the robustness against noise and shearing attack of the medical image watermark. It is of important significance for the safety and hiding of medical image information.

21: 2021/04936. 22: 2021/07/14. 43: 2021/08/18 51: C01B

71: Institute of Plant Nutrition, Resources and Environmental Science, Henan Academy of Agricultural Sciences

72: Lv Jinling, Kou Changlin, Qin Shengtao, Li Taikui, Guo Zhanling, Luo Xiaosheng, Zhang Xiangning

54: HIGHLY ACTIVE STRAW BIOCHAR AND ITS PREPARATION METHOD

00: -

The present invention relates to the field of biochar preparation methods, and specifically discloses a method for preparing highly active straw biochar, comprising the following steps S1-S2 activation of straw, S3, the activated straw is pyrolyzed to obtain highly active straw biochar. The highly active straw biochar produced by this invention can improve the yield, specific surface area and porosity of biochar products, and it is a low-cost, eco-friendly preparation process.

21: 2021/04938. 22: 2021/07/14. 43: 2021/08/18 51: B60C

71: XUZHOU COLLEGE OF INDUSTRIAL TECHNOLOGY

72: XU, Yunhui, SONG, Shuishai, WANG, Yanqiu, WENG, Guowen

54: PREPARATION METHOD OF TIRE TREAD WITH NO CUSHION CORD PLY 00: -

The present invention discloses a preparation method of a tire tread with no cushion cord ply. The preparation of the tread adopts a duplex extruded dual compound method. The preparation method includes the following specific steps: calendering, by a three-roller calendering machine, a lower cushion rubber layer to form a laminated rubber sheet, and sending the laminated rubber sheet into a rubber dipping trough for uniform dip coating; then drying by a drying apparatus; tightly compounding an upper tread rubber layer extruded by a cold feed extruder and the laminated rubber sheet; and cooling by a water trough, blow drying, weighing, and punching to prepare a tread. In the preparation method, a dip coating step of the cushion rubber layer is added.

21: 2021/04957. 22: 2021/07/14. 43: 2021/08/18 51: A62B

71: BEIJING GUOWANG FUDA SCIENCE AND TECHNOLOGY DEVELOPMENT CO., LTD. 72: WU, Jianning, YANG, Jiarui, WEI, Xiaodong, MEI, Jia, ZHOU, Limin, LI, Xuebin 33: CN 31: 201910504343.4 32: 2019-06-12 54: SELF-LOCKING DEVICE FOR ANTI-FALLING RAIL 00: -

A self-locking device for an anti-falling rail, comprising a housing (1), a spring (2), a rotary rod (3) and a first connection shaft (4); the housing (1) comprises a fixed-side main body (11) and an openside main body (12), the fixed-side main body (11) being detachably connected to the open-side main body (12), and two ends of the first connection shaft (4) are connected to the fixed-side main body (11) and the open-side main body (12) respectively; one end of the rotary rod (3) is located inside the housing (1), and the other end of the rotary rod (3) is located outside the housing (1); the spring (2) may make the rotary rod (3) rotate about the first connection shaft (4), and allows one end of the rotary rod (3) to abut against the front surface (21) of a wing board of an anti-falling rail (20).

71: QINGDAO UNIVERSITY OF TECHNOLOGY, QINGDAO SISA ABRASIVES CO., LTD. 72: LI, Changhe, HUANG, Baoteng, ZHAI, Han, LU, Bingheng, CAO, Huajun, WANG, Zhen, ZHANG, Naiqing, YANG, Min, ZHANG, Yanbin, HOU, Yali, LI, Runze, CUI, Xin, LIU, Mingzheng 33: CN 31: 2019107912025 32: 2019-08-26 54: RELEASE AGENT SPRAYING DEVICE USED IN SG ABRASIVE GRAIN PRODUCTION PROCESS

00: -

The present invention discloses a release agent spraying device used in an SG abrasive grain production process. It solves the problem that the

^{21: 2021/04961. 22: 2021/07/14. 43: 2021/08/18} 51: B05B

release agent is prone to produce bubbles in an abrasive grain cavity and has the effect of being capable of fully filling the abrasive grain cavity with release agent. The release agent spraying device used in an SG abrasive grain production process includes a shell. Two sides of the shell are provided with openings for a belt mold to run through, at least one nozzle for spraying an atomized release agent to the belt mold is mounted in the shell, the shell is connected with an oil mist collecting mechanism, the oil mist collecting mechanism includes a suction component arranged in an oil mist collecting box body, and one side of the suction component in the oil mist collecting box body is provided with a filter layer.

21: 2021/04965. 22: 2021/07/15. 43: 2021/08/18 51: B63B; B63H

71: Shanghai Ocean University

72: Chen Leilei, Chen Pukun, Li Jun, Hu Qingsong, Jiang Bo

54: SMALL UNMANNED BOAT DRIVE SHAFT SYSTEM GREASE SEAL ANTI-LEAKAGE DEVICE 00: -

The invention relates to a small unmanned boat drive shaft system grease seal leak-proof device, including a drive motor, a rigid shaft, and a flow stop spring. Each end of the rigid shaft is connected to the drive motor and one end of the driven shaft through a universal coupling; the driven shaft passes through the outer tube of the shaft system and its other end is connected to the propeller. The flange bearing is mounted on both ends of the outer tube of the shaft system, and the flow stop collar is installed between the outer end of the flange bearing and the axial limit collar, axial limit collar for axial positioning of the outer tube for the shaft system. The flow stopper spring is mounted inside the outer tube of the shaft system, with one end against the flange bearing near the rigid shaft and the other end against the flow stopper ring located in the middle of the outer tube of the shaft system; the outer tube of the shaft system is filled with grease. The invention is simple in structure, stable in function, highly efficient in the transmission of rotating power and increased propeller speed; the motor power required is not large, extending the use of the battery; the flow-blocking ring and flow-blocking spring

cooperate to improve the performance of the shaft system against leakage.

21: 2021/04966. 22: 2021/07/15. 43: 2021/08/18 51: C12Q; G01N 71: Henan Agricultural University

72: Han Liqiang, Pang Kun 54: PREPARATION METHOD OF MILK CLARIFICANT AND APPLICATION THEREOF 00: -

The invention discloses a preparation method and application of a milk clarificant, which comprises the following steps of: firstly, uniformly mixing 40-50 parts by weight of 0.1 equivalent sodium hydroxide, 40-50 parts by weight of lipophilic solvent, 80-100 parts by weight of dissolving agent and 40-50 parts by weight of surfactant in a blender to prepare a milk clarificant, taking a test tube, adding phenol standard solution or milk products; Then adding 4-6ml of carbonate buffer solution into the test tube, followed by 0.05-0.2ml of 2,6-dichloroquinone-4-chloroimine solution and 1-3 drops of CuSO4 solution; And then adding 4-6ml of the prepared clarificant and heating the resulting mixture in a water bath at 36-38C for 4-6min; Finally detecting the absorbance of dairy products under the strong light of 655nm to complete the detection of alkaline phosphatase activity of dairy products. The preparation is simple and of extremely high efficiency.

21: 2021/04967. 22: 2021/07/15. 43: 2021/08/18 51: G01N

71: XI AN TECHNOLOGICAL UNIVERSITY 72: Liu Huan, Zhao Jijie, Jia Jinmei, Du Yuxuan, Wen Shuai, Bai Minyu, Xie Fei, Xie Wanpeng, Liu Weiguo

33: CN 31: 202011639625.4 32: 2020-12-31 54: A THREE-DIMENSIONAL GRAPHENE GAS SENSITIVE SENSOR AND ITS PREPARATION METHOD

00: -

The invention discloses a three-dimensional graphene gas sensitive sensor and its preparation method, which belongs to the technical field of sensors and low-dimensional materials. The sensor consists of a gas-sensitive layer and upper and lower electrodes. The gas-sensitive layer is threedimensional graphene modified by quantum dots. When the target detection gas appears around the sensor, the gas-sensitive layer adsorbs the gas and

the resistivity changes. The change in the concentration of the target detection gas is judged by the resistance change. The three-dimensional graphene modified by quantum dots is prepared by a novel synthesis method proposed in the present invention. It has the advantages of large specific surface area, fast electron transmission rate, high detection sensitivity and good mechanical strength, which solves the problems of low conversion efficiency, slow transmission rate, high energy consumption, low sensitivity and easy corrosion of traditional gas sensors. It can be widely used in metallurgy, chemical industry, gas, firefighting, coal deep processing and other fields.

21: 2021/04971. 22: 2021/07/15. 43: 2021/09/01 51: C06D

71: Anhui University of Science and Technology 72: YAN, Zhuo, YUAN, Shujie, XU, Yihao, LIANG, Xue, XING, Qingran, LI, Zhiqi, ZUO, Yuanxia, MU, Wenxiang

54: EXPERIMENTAL APPARATUS FOR INFLUENCE OF SUPERFINE WATER MISTS ON EXPLOSIVE CHARACTERISTIC OF COMBUSTIBLE GAS AND METHOD OF USE THEREFOR

00: -

The present invention discloses an experimental apparatus for an influence of superfine water mists on an explosive characteristic of a combustible gas and a method of use therefor. The experimental apparatus includes an explosion cavity. A water mist generation device is removably provided below the explosion cavity. The water mist generation device includes a piezoelectric ceramic oscillator and a water tank. The piezoelectric ceramic oscillator is located in the water tank. A separation member is provided on the explosion cavity. The separation member separates a chamber of the water tank from a chamber of the explosion cavity. An ignition device for detonation is provided on the explosion cavity. A circulation pipe for gas circulation is provided on the explosion cavity. According to the experimental apparatus for an explosive characteristic of a combustible gas of the present invention, superfine water mists of a high concentration are generated in the explosion chamber, particle sizes of the water mists are controlled by adjusting a frequency of the piezoelectric ceramic oscillator, and the separation member causes the chamber of the water tank to be

separated from or in communication with the chamber of the explosion cavity, which solves the technical problems of adding superfine water mists to an airtight explosion chamber without loss and forming an environment with superfine water mists of a high concentration. In addition, an amount of the water mists is measurable, and particle sizes of the water mists are adjustable.

21: 2021/04972. 22: 2021/07/15. 43: 2021/09/01 51: A62C

71: Anhui University of Science and Technology 72: YAN, Zhuo, GUO, Shengli, GU, Shicheng, ZHANG, Yingpeng, YUAN, Shujie, LIU, Yi, LU, Hui 54: EXPERIMENTAL SYSTEM FOR SUPPRESSING PROPAGATION OF COMBUSTIBLE GAS EXPLOSION AND EXPERIMENTAL METHOD THEREFOR 00: -

The present invention discloses an experimental system for suppressing propagation of a combustible gas explosion and an experimental method therefor. The experimental system includes a first pipe, where a vacuum pump and a circulation pump in communication with the first pipe are provided on the first pipe, an ignition device is provided at one end of the first pipe, a first valve is provided at an other end of the first pipe, one side of the first valve is in communication with the first pipe, and a rectangular cavity component is provided on an other side of the first valve. A length and a width of a cavity of the experimental system according to the present invention can be freely adjusted, to change a volume of the cavity. A concentration of fine water mists may be controlled through a misting duration, and a particle size of the water mists may be adjusted through an electromagnetic oscillation frequency. By means of the experimental system, an experimental research can be conducted on collaborative explosion suppression performance of cavities of different sizes and fine water mists with different concentrations and particle sizes. By analyzing data on a flame and overpressure at an inlet and an outlet of the cavity and inside the cavity, a cavity size, a water mist concentration, and a particle size that afford a best collaborative explosion suppression performance can be discovered to guide engineering practice.

21: 2021/05052. 22: 2021/07/19. 43: 2021/09/01 51: C12N; G06F

71: Anhui University of Science and Technology 72: YANG, Jing, HUANG, Kaifeng, TANG, Zhen, LIU, Congcong

54: DATA PROCESSING METHOD FOR DNA COMPUTING

00: -

The present invention relates to the field of data processing, and specifically discloses a data processing method for DNA computing. The data processing method for DNA computing includes the following steps: step 1: exporting data of a DNA computer to an electronic computer, and decoding the data into data readable by the electronic computer; step 2: dividing the data obtained in step 1 into N data segments, generating, by an encryptor, N-1 random data segments and inserting each of the N-1 random data segments between two adjacent data segments, and outputting, by the encryptor, the random data segments to a decryptor; step 3: encrypting the data segments segment-by-segment according to a degree of sensitivity and a degree of importance preset by a user, and generating, by the decryptor, a key and storing the key in the electronic computer; and step 4: integrating the plurality of data segments into one data segment.

21: 2021/05053. 22: 2021/07/19. 43: 2021/09/01 51: G09B

71: Anhui University of Science and Technology 72: HAN, Ning

54: DEMONSTRATIVE TEACHING AID FOR USE IN TEACHING OF MECHANICAL DRAWING 00: -

The present invention discloses a demonstrative teaching aid for use in teaching of mechanical drawing. The demonstrative teaching aid for use in teaching includes a base. A platform is disposed on the base, a movable member is disposed on the platform. A ring is disposed on the movable member. A support frame is disposed on the base. A mounting plate is disposed on the support frame. Snap holes that are symmetrically distributed are disposed on the mounting plate. A first worm gear configured to rotate the mounting plate is disposed on one side of the support frame. A first worm is disposed on the base. Limiting grooves are formed at two ends of the ring. A second worm gear is disposed on one side of the ring. Air cylinders that are symmetrically distributed are disposed in the ring. After parts of the demonstrative teaching aid of the present invention are fixed, the demonstrative teaching aid can perform multi-directional projection, so as to assist in teaching and help students understand. The demonstrative teaching aid is easy to adjust, is widely applicable, is simply structured, and is convenient to use.

21: 2021/05128. 22: 2021/07/21. 43: 2021/08/18 51: B65B

71: Qingdao Agricultural University

72: Wang Jiasheng, Wang Jiwei 54: AUTOMATIC BUNDLING DEVICE FOR VEGETABLES 00: -

The present invention relates to the agricultural machinery, and in particular, to an automatic bundling device for vegetables. The automatic bundling device comprises a rack, baling mechanisms and bundling mechanisms, wherein the rack comprises a rack I and a side rack, the side rack is located on one side of the rack I and is fixedly connected to the rack I, the bundling mechanisms are arranged on the rack I, and the baling mechanisms are arranged on the side rack and are located above the bundling mechanisms; and each bundling mechanism comprises a semicircular bundling device, a bundling device base, a bundling pushing plate and a bundling pushing plate moving part, where the semi-cylindrical cavity is formed in the semicircular bundling device, the bundling device base is fixedly connected to the bottom of the semicircular bundling device, the bundling pushing plate is arranged in the semicircular bundling device and is connected to the bundling pushing plate moving part, an axial seam is formed in the semicircular bundling device in the axial direction, and a peripheral seam is located below the baling mechanism in the peripheral direction of the semicircular bundling device. The automatic bundling device realizes automatic bundling of the vegetables, is high in work efficiency, realizes sequential bundling of the vegetables as well as firm baling of the vegetables, and is good in bundling effects.

21: 2021/05129. 22: 2021/07/21. 43: 2021/08/18

51: A01D

71: Qingdao Agricultural University 72: Wang Jiasheng, Hui Ni 54: DOUBLE-ROW CARROT COMBINE HARVESTER 00: -

The present invention relates to agricultural machinery, and in particular, to a double-row carrot combine harvester. The double-row carrot combine harvester comprises a rack, and further comprises a double-row seedling supporting and feeding device, an excavating device, a double-wheel depth limiting device, a clamping, pulling and conveying device and a root and leaf cutting device, wherein the double-row seedling supporting and feeding device is fixed at the top end of the clamping, pulling and conveying device; the excavating device is fixed on the bottom of the top end of the clamping, pulling and conveying device, and is positioned below the double-row seedling supporting and feeding device; the double-wheel depth limiting device is fixed at the front end of the clamping, pulling and conveying device; the double-wheel depth limiting device is positioned at the rear of the double-row seedling supporting and feeding device; the root and leaf cutting device is fixed on the bottom of the middle rear end of the clamping, pulling and conveying device; the clamping, pulling and conveying device is arranged on one side of the rack; and the rack is fixed on a supporting surface of a caterpillar band traveling chassis. The double-row carrot combine harvester realizes harvesting of double-row highdensity planted carrots, is compact in structure. small in size, flexible and convenient to use and high in operation efficiency.

21: 2021/05130. 22: 2021/07/21. 43: 2021/08/18 51: A23K

71: Xuzhou Institute of Technology

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72: Sun Ling, Zhang Hui
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54: PROBIOTIC COMPOUND-BASED ANTIBIOTIC-FREE GRANULAR PIG FEED AND PREPARATION METHOD THEREOF 00: -

The invention discloses a probiotic compound-based antibiotic-free granular pig feed and a preparation method thereof, belonging to the technical field of piglet feed. The feed comprises raw corn kernels, expanded corn, fermented soybean meal, expanded soybean, unfermented soybean meal, fish meal,

whey powder, biological fermentation material, soybean oil, stone powder, calcium hydrogen phosphate, acidifier, salt, choline chloride, mildew inhibitor, lysine, threonine, valine, methionine, tryptophan, trace element premix, vitamin premix, probiotics, enzyme preparation, attractant and antioxidant. Compared with the prior art, the piglet feed has the beneficial effects that the piglet feed does not contain antibiotic components. The piglet feed has the advantages of no toxicity, no drug residue and no drug resistance. Acidifier, probiotics, enzyme preparation and other components are combined with other dietary components to improve the growth performance and immunity of piglets. The piglet feed solves the problems of antibiotic resistance and drug residue that have long plagued animal husbandry. It also reduces the potential safety hazard of feed and improves the benefit of aquaculture.

71: Anhui University of Science and Technology 72: HONG, Yan, GONG, Pingshun, BAO, Ming 54: MODEL TARGET COORDINATE FEEDBACK SYSTEM BASED ON MATLAB 00: -

The present invention discloses a model target coordinate feedback system based on MATLAB, including an image preprocessing module (1), an image coordinate feedback module (2), and a model establishment and prediction module (3). The image preprocessing module (1) can convert a true color image of a model target picture into a binary image with only an object target, and perform filtering and some morphological operations to make the binary image better recognizable and readable. The image coordinate feedback module (2) can read white pixels line by line within a specified image range, and obtain a minimum bounding rectangle of the pixels. The model establishment and prediction module (3) establishes a linear model and converts coordinates of image feedback into actual coordinates or directly uses image coordinates for dynamic analysis.

21: 2021/05132. 22: 2021/07/21. 43: 2021/09/01 51: G09B

71: Anhui University of Science and Technology

^{21: 2021/05131. 22: 2021/07/21. 43: 2021/09/01} 51: G06F

72: GUAN, Weijuan, CHEN, Qinghua, LI, Dequan 54: TEACHING AID FOR TEACHING MATHEMATICS AND APPLIED MATHEMATICS 00: -

The present disclosure belongs to the field of teaching equipment, and discloses a teaching aid for teaching mathematics and applied mathematics. including a clamping jaw assembly, where a mounting block is disposed on a lower end of the clamping jaw assembly, an adjusting rod is disposed on and rotatably connected to a lower end of the mounting block, the adjusting rod is provided with an external thread, and the adjusting rod and a teaching display board are connected to each other through a threaded fitting. In the present disclosure, an upper end of a rotating portion of a limiting rod is abutted against a lower end portion of an upper-end bar edge of a blackboard, and an inner side of a clamping groove of a buckle is abutted against an upper end portion of the upper-end bar edge of the blackboard, so that a teaching display board can be hung on the blackboard, which is convenient for a staff member to use.

21: 2021/05133. 22: 2021/07/21. 43: 2021/09/01 51: E21F

71: Anhui University of Science and Technology 72: CHEN, Qinghua, ZHOU, Baojie, ZHANG, Bin, SONG, Haoran, CUI, Jinqiong, LI, Sai 54: FAN FOR SETTLING DUST OF COAL MINE 00: -

The present invention discloses a fan for settling dust of a coal mine. The fan includes a bottom plate, omni-directional wheels, a support post, a push rod, a first support plate, a second support plate, a blowing cavity, a first connecting block, a second connecting block, a hydraulic cylinder, a water storage tank, a booster pump, a water pipe, a Ushaped frame, a screw rod, a guide rod, a lift plate, a motor, an annular pipe, nozzles, dust covers, and a fan blade. The present invention has a small size and is convenient to operate. Operation of the present invention can be performed by only one miner by pushing. In addition, an adjustment mechanism is provided to adjust a height and an angle according to an actual situation, so that a more desirable dust settlement effect can be achieved. The present invention is widely applicable

and highly practical. The present invention is not only effectively applicable to underground coal mining, but also applicable to many other dust settlement areas. The present invention resolves problems such as bulkiness and difficult operation of dust settlement apparatuses in the prior art, as well as the difficulty in applying the apparatuses in the prior art to underground coal mining.

21: 2021/05134. 22: 2021/07/21. 43: 2021/09/01 51: E21F

71: Anhui University of Science and Technology 72: CHEN, Qinghua, ZHANG, Xu, SONG, Haoran, ZHANG, Sen, WANG, Xiaorun, CUI, Jinqiong 54: SUPPORT BRACKET FOR SPRAYER FOR SETTLING DUST OF COAL MINE 00: -

The present invention discloses a support bracket for a sprayer for settling dust of a coal mine, and belongs to the field of settlement of dust of coal mines. A support bracket for a sprayer for settling dust of a coal mine includes a first rack and a second rack. The first rack is arranged directly above the second rack. A plurality of sprayers are fixedly mounted to the first rack. The second rack is laid on a bottom face of a mine. A support post is disposed between the first rack and the second rack. An upper end of the support post is fixedly connected to a bottom face of the first rack. A lower end of the support post is fixedly connected to an upper end face of the second rack. A baffle is fixedly mounted on each of two sides of the second rack in a width direction. A first air outlet is formed on an upper end face of the baffle. A main shaft is disposed on one side of the baffle that is close to a middle of the second rack. The main shaft is horizontally arranged. Two recessed cavities are formed on the upper end face of the second rack. The main shafts are rotatably connected in the recessed cavities.

54: CONSTRUCTION OF SINONOVACULA CONSTRICTA LAMARCK FAMILY LINES BY SINGLE MALE AND FEMALE PAIRING 00: -

^{21: 2021/05136. 22: 2021/07/21. 43: 2021/08/18} 51: A01K

^{71:} Qingdao Agricultural University

^{72:} Liu Bo, Zhao Yuming, Wang Feng, Wang Chunde

The present invention relates to a method of constructing a single male and female paired Sinonovacula constricta Lamarck family line. The characteristics are firstly choose healthy parents with mature gonads, then identify the sex of male and female by taking the gonads with a needle, and then pair the above-mentioned individuals according to the way of one female to one male, after the single mating. Placed in 60 L of seawater to induce labor and combined with shade-dry-water stimulation and 5-hydroxytryptamine injection, the Sinonovacula constricta Lamarck family is obtained by promoting the oviposition and fertilization of the Sinonovacula constricta Lamarck, and the well-fertilized lines are individually bred to adult shells. The present invention greatly improves the efficiency and purity of family line construction. The construction of high purity Sinonovacula constricta Lamarck lines on a large scale was achieved, and compared to the traditional method of constructing Sinonovacula constricta Lamarck lines. From the original 30% to about 70%, and the operation is simple as well as convenient, saving manpower and time. It also provides sufficient pure and uncontaminated lines for molecular marker-assisted breeding of Sinonovacula constricta Lamarck.

21: 2021/05137. 22: 2021/07/21. 43: 2021/08/18 51: B01D

71: Zaozhuang University

72: Jiao Pengpeng, Duan Yuhui, Li Yinxuan, Li Zhongdong, Chen Hongkai

54: PROCESSING SYSTEM FOR TREATING ALDEHYDE-CONTAINING WASTE ACID BY UTILIZING MANGANESE DIOXIDE AND A TREATMENT METHOD THEREOF 00: -

The invention relates to a processing system for treating aldehyde-containing waste acid by utilizing manganese dioxide and a treatment method thereof. The processing system comprises a heat exchange unit, a primary spray absorption unit, a materialliquid mixing reaction unit, a solid-liquid separation unit, an aeration unit, a secondary spray absorption unit and an acid-liquid storage unit, which are sequentially connected. Both the primary spray absorption unit and the secondary spray absorption unit are connected with an exhaust gas processing unit, and the aeration unit is connected with an air purification unit and a salt-liquid storage unit. During treatment, the mixed gas is cooled by heat exchange process, then sprayed and absorbed further by manganese dioxide, then aerated after solid-liquid separation, and finally sprayed and absorbed for the second time. The waste gas generated in the process is discharged after treatment, and the obtained liquid is collected by classification. According to the invention, manganese dioxide is utilized to treat the aldehyde-containing waste acid, and finally a hydrochloric acid solution with a certain concentration and a manganese chloride solution close to or reaching saturation are obtained, so that the utilization value and economic benefit of the aldehyde-containing waste acid can be improved.

21: 2021/05169. 22: 2021/07/22. 43: 2021/08/27 51: A01H

71: QINGDAO AGRICULTURAL UNIVERSITY 72: ZHANG, Yugang, GUO, Shaoxia, SUN, Xin, BAI, Suhua, HOU, Hongmin, SUN, Xiaohong, XU, Jihua, Dong, Chaohua, JIANG, Shenghui, ZHU, Jun, DAI, Hongyi

54: HYBRID APPLE SEED "1ST-CONTROL 2ND-CATALYSIS 3RD-CULTURE" THREE-STEP STRATIFICATION CULTURE METHOD 00: -

The present invention discloses a hybrid apple seed "1st-control 2nd-catalysis 3rd-culture" three-step stratification culture method. The method includes the following steps. Hybrid apples are picked when approaching maturity, and hybrid seeds are taken out, thoroughly cleaned, aired, and preserved at room temperature. Before stratification, the hybrid seeds are soaked in tap water for 8 hours, disinfected with 1% sodium hypochlorite for 30 minutes, flushed with sterile water 3 times, wrapped by 2 layers of wet gauze, put into dishes, and placed into a refrigerator at a set temperature of 2 DEG C for stratification. In this period, the seeds are flushed with tap water once every week, and the gauze for wrapping the seeds is kept wet but with no water accumulation. The seeds are transferred into an incubator at 25 DEG C for germination acceleration for 8-12 hours when radicle germinates by about 0.1 cm 80-90 days later, and the seeds can be sown into seedling trays in a greenhouse when the radicle grows to be 0.3-0.5 cm long. The present invention is strong in controllability, and the germination rate

reaches 95% or above. The present invention overcomes the defect that conventional sand storage and stratification are affected by winter temperature, can accurately control the seed germination time, and achieves the aims of sowing the seeds earlier and accelerating the breeding process.

21: 2021/05170. 22: 2021/07/22. 43: 2021/08/27 51: G01N: G01T: G02B

71: Anhui University of Science and Technology 72: Hu Feng, Zhou Mengran, Yan Pengcheng, Lai Wenhao, Bian Kai, Zhu Ziwei, Si Mengting, Qian Yali, Luo Zhouyu

33: CN 31: 202110702318.4 32: 2021-06-21 54: METHOD, DEVICE AND COMPUTER EQUIPMENT FOR SCREENING CHARACTERISTIC WAVELENGTH OF FLUORESCENCE SPECTRUM, AS WELL AS READABLE STORAGE MEDIUM 00: -

The present disclosure discloses a method, a device and a computer equipment for screening a characteristic wavelength of a fluorescence spectrum, as well as a readable storage medium. The method comprises: acquiring original fluorescence spectrum data of a plurality of samples to be tested, performing Standardized Normal Variate transformation processing to the original fluorescence spectrum to obtain a processed fluorescence spectrum, screening bands of the processed fluorescence spectrum with an interval Partial Least Squares to obtain characteristic bands of the fluorescence spectrum, and screening the characteristic wavelength for the characteristic bands of the fluorescence spectrum with a Cuckoo Search algorithm to obtain the characteristic wavelength of the fluorescence spectrum. The device can ensure reliable screening for the characteristic wavelength of the fluorescence spectrum.

21: 2021/05172. 22: 2021/07/22. 43: 2021/08/27 51: G01N

71: Henan University Of Urban Construction72: Zheng Chao, Guo Lulu, Zhang Shuo, Li Shuai,Bai Zhe, Luo Congshuang

54: AN ACOUSTIC EMISSION TESTING DEVICE FOR ROCK MECHANICS DIRECT SHEAR PROCESS 00: -

The disclosure discloses an acoustic emission testing device for rock mechanics direct shear process, wherein the device comprises a base, the supporting legs, a pressure bearing seat, a sample placement groove, the residue grooves, the hydraulic legs, an adjustable bracket, a pressure head, a protective cover, the acoustic emission signal acquisition sensors, a hydraulic press, a transverse slide rail, a transverse propulsion motor and the protective plates. Compared with the prior art, the disclosure has the advantages of simple structure, novel design, improved sample structure, wrapping the sample placement box in a relatively sealed environment, reducing the impact of shock waves in the environment on the acquisition of rock waves or stress waves by the sensors, and simultaneously embedding the sensors in the reserved groove outside the sample placement box to ensure the accuracy of signal acquisition.

21: 2021/05201. 22: 2021/07/22. 43: 2021/09/03 51: B24D

71: QINGDAO UNIVERSITY OF TECHNOLOGY 72: LI, Changhe, HUANG, Baoteng, ZHAI, Han, LU, Bingheng, CAO, Huajun, WANG, Zhen, WU, Qidong, ZHANG, Yanbin, YANG, Min, HOU, Yali, LIU, Mingzheng, CUI, Xin

33: CN 31: 201910791204.4 32: 2019-08-26 54: SLURRY SCRAPING MECHANISM AND APPLYING AND SCRAPING DEVICE USED IN SG ABRASIVE PRODUCTION PROCESS 00: -

The present invention discloses a slurry scraping mechanism and an applying and scraping device used in an SG abrasive production process. The slurry scraping mechanism used in an SG abrasive production process includes a scraping master support; a scraper, wherein the scraper is connected with the scraping master support through a suspension component such that the scraper is suspended, and a damping spring is arranged in the suspension component; and a torsion spring adjusting component, wherein the torsion spring adjusting component includes a plurality of torsion springs supported by a torsion spring support shaft, the torsion spring support shaft is fixed to the scraping master support, the torsion spring support shaft is movable up and down relative to the scraping master support, the torsion springs are

clamped in a V-shaped plate, an end side of the Vshaped plate is connected with the scraping master support.

21: 2021/05202. 22: 2021/07/22. 43: 2021/09/03 51: B01D; B24B

71: QINGDAO UNIVERSITY OF TECHNOLOGY, SHANGHAI JINZHAO ENERGY SAVING TECHNOLOGY CO., LTD.

72: LI, Changhe, DUAN, Zhenjing, CAO, Huajun, XU, Xuefeng, ZHANG, Naiqing, DONG, Lan, ZHANG, Yanbin, BAI, Xiufang, WU, Wentao, GAO, Teng, YANG, Min, JIA, Dongzhou, LI, Runze, HOU, Yali

33: CN 31: 201910100369.2 32: 2019-01-31 54: OIL MIST RECOVERY, SEPARATION AND PURIFICATION DEVICE FOR MINIMUM QUANTITY LUBRICANT GRINDING PROCESS 00: -

The present invention relates to an oil mist recovery. separation and purification device for a minimum quantity lubricant (MQL) grinding process, including: a pneumatic separation mechanism including a pipeline and a fan fixedly connected with one end of the pipeline, wherein the fan is configured to form a negative pressure in the pipeline, at least one coneshaped filter mesh mechanism is disposed in the pipeline, and a tip of the cone-shaped filter mesh mechanism faces the side of an air inlet direction of the pipeline; and a filtering and recovery mechanism connected with the pipeline and including a case body, a filtering mechanism and a recovery mechanism, wherein the case body is connected with the pipeline through a connecting part, and the filtering mechanism is connected with the recovery mechanism.

21: 2021/05203. 22: 2021/07/22. 43: 2021/09/03 51: A23N

71: QINGDAO UNIVERSITY OF TECHNOLOGY, XINJIANG JIANG NING LIGHT INDUSTRIAL MACHINERY ENGINEERING TECHNOLOGY CO., LTD.

72: LI, Changhe, LIU, Mingzheng, WANG, Yucheng, ZHANG, Yanbin, CHE, Ji, HOU, Yali, WANG, Xiaoming, FENG, Yitian, WANG, Rong, FENG, Yiping, WANG, Huaiyu, JIA, Zhenming, ZHAO, Lei, MIAO, Guangzhen, LI, Runze, GAO, Teng 33: CN 31: 201911168497.7 32: 2019-11-25

54: CAM ROLLER TYPE HORIZONTAL EXTRUSION CRACKING SYSTEM FOR WALNUTS

00: -

The present disclosure discloses a cam roller type horizontal extrusion cracking system for walnuts. A technical solution is that: the system includes a feeding device, a cracking device and a falling device which are fixed on a stand. The feeding device is arranged above the cracking device; and the falling device is arranged below the cracking device. The feeding device includes a feeding box; an intermittent feeding roller is arranged in the feeding box; one side of the intermittent feeding roller is provided with a feeding baffle plate, and the other side is provided with an adjustable feeding scraper blade mechanism; and feeding slots separated by 180° are formed in the intermittent feeding roller. The cracking device includes an extrusion box body; a movable tooth-shaped extrusion plate and a fixed tooth-shaped extrusion plate are oppositely mounted in the extrusion box body.

21: 2021/05204. 22: 2021/07/22. 43: 2021/09/03 51: B23Q

71: QINGDAO UNIVERSITY OF TECHNOLOGY, NINGBO SANHAN ALLOY MATERIAL CO., LTD. 72: LI, Changhe, LI, Haogang, LUO, Liang, CAO, Huajun, LU, Bingheng, TANG, Lizhi, ZHANG, Yanbin, XU, Haizhou, YANG, Min, HONG, Huaping, YIN, Shuo, CUI, Xin, LIU, Mingzheng, GAO, Teng, HOU, Yali, LI, Runze

33: CN 31: 201911282118.7 32: 2019-12-13 54: MULTI-STATION TURNING TOOL BIT MILLING FIXTURE SYSTEM CAPABLE OF INTELLIGENTLY DETECTING CLAMPING FORCE 00: -

The present disclosure discloses a multi-station turning tool bit milling fixture system capable of intelligently detecting a clamping force, which includes a lower bottom plate mechanism. A first hydraulic pipeline is arranged in a substrate of the lower bottom plate for transmitting hydraulic fluid to an upper clamping hydraulic cylinder and an end face clamping hydraulic cylinder; a supporting plate mechanism is internally provided with an airdetection pipeline; a positioning mechanism includes a positioning substrate, and a plurality of supporting blocks are fixedly arranged on the positioning substrate for clamping a workpiece to implement sixpoint positioning; an upper clamping mechanism includes a V-shaped clamping block, the V-shaped clamping block is connected to an upper clamping big arm, and the upper clamping big arm is connected to the upper clamping hydraulic cylinder through an ejector rod mechanism; an end face clamping mechanism includes an end face clamping block.

21: 2021/05205. 22: 2021/07/22. 43: 2021/09/03 51: B23Q

71: QINGDAO UNIVERSITY OF TECHNOLOGY, NINGBO SANHAN ALLOY MATERIAL CO., LTD. 72: ZHANG, Yanbin, TANG, Lizhi, LUO, Liang, LI, Changhe, XU, Haizhou, YANG, Min, HONG, Huaping, LI, Haogang, YIN, Shuo, CUI, Xin, LIU, Mingzheng, GAO, Teng, HOU, Yali, LI, Runze 33: CN 31: 201911284224.9 32: 2019-12-13 54: MULTI-STATION SELF-POSITIONING FLOATING CLAMPING AND WORKPIECE AUTOMATIC FLIP INTELLIGENT FIXTURE SYSTEM

00: -

The present disclosure discloses a multi-station selfpositioning floating clamping and workpiece automatic flip intelligent fixture system, which includes a linear motion device, a workpiece automatic flip device and a self-positioning floating clamping device. A bottom portion of the workpiece automatic flip device is connected to the linear motion device, and the linear motion device drives the workpiece automatic flip device to move horizontally; the self-positioning floating clamping device clamps the workpiece, the workpiece automatic flip device is arranged opposite to the selfpositioning floating clamping device, and the workpiece automatic flip device is capable of clamping the workpiece and driving the workpiece to turn over; and the workpiece automatic flip device includes a rotary cylinder, the rotary cylinder is connected to a hydraulic cylinder, a piston rod of the hydraulic cylinder is connected to a mechanical claw opening-and-closing finger through a hinge mechanism.

21: 2021/05206. 22: 2021/07/22. 43: 2021/09/03 51: B28B

71: QINGDAO UNIVERSITY OF TECHNOLOGY, SHENYANG HONGYANG PRECISION CERAMICS CO., LTD.

72: LI, Changhe, SHI, Mingcun, MA, Xiangyang, ZHANG, Yanbin, YANG, Min, CUI, Xin, MA, Xiaohong, GAO, Teng, WANG, Xiaoming, HOU, Yali, ZHAI, Han, WANG, Zhen, LU, Bingheng, CAO, Huajun, ZHANG, Naiqing, WU, Qidong 33: CN 31: 201911380318.6 32: 2019-12-27 54: ALUMINA CERAMIC INTEGRATED HOT PRESS MOLDING MACHINE AND WORKING METHOD THEREOF

00: -

The present invention discloses an alumina ceramic integrated hot press molding machine and a working method thereof. The alumina ceramic integrated hot press molding machine includes a pressing device and a hot pressing device which are fixed on a rack, wherein the hot pressing device is located below the pressing device, a stirring device is disposed inside the hot pressing device, and a hot pressing mold is disposed above the hot pressing device; the pressing device enables one path of high-pressure air to act on the hot pressing mold, and enables the other path of high-pressure air to enter the hot pressing device, so that the slurry flows into a cavity of the hot pressing mold; the stirring device is configured to stir the slurry inside the hot pressing device, so that alumina blanks are more evenly distributed in the slurry.

21: 2021/05207. 22: 2021/07/22. 43: 2021/09/03 51: A61B

71: QINGDAO UNIVERSITY OF TECHNOLOGY, NINGBO SANHAN ALLOY MATERIAL CO., LTD. 72: LI, Changhe, WU, Xifeng, CUI, Xin, ZHANG, Yanbin, LUO, Liang, YANG, Min, JIA, Dongzhou, GAO, Teng, LIU, Mingzheng, CHEN, Shuai, MA, Wuxing, LU, Bingheng, HOU, Yali, LI, Runze, CAO, Huajun

33: CN 31: 201911413320.9 32: 2019-12-31 54: FLEXIBLE SENSOR DETECTION SYSTEM FOR MEDICAL CARE AND HEALTH 00: -

The present invention discloses a flexible sensor detection system for medical care and health, including: an information collection module, which uses a wearable device as a carrier, where flexible sensors are respectively arranged on the wearable device; an information transmission module, configured to wirelessly transmit collected information to an information processing and feedback module; and the information processing and feedback module, configured to perform grading treatment on received data information and feed back a health condition corresponding to the data information to the information transmission module, where the information transmission module compares feedback health condition data with a preset health threshold to determine whether to give an alarm. A heart rate ECG band, a breathing band, a shell temperature band, a blood flow rate band, a blood glucose band, a blood oxygen band, and a deep temperature band of the present invention are provided with the built-in flexible sensors.

21: 2021/05208. 22: 2021/07/22. 43: 2021/09/03 51: B28B

71: QINGDAO UNIVERSITY OF TECHNOLOGY, SHENYANG HONGYANG PRECISION CERAMICS CO., LTD.

72: LI, Changhe, SHI, Mingcun, MA, Xiangyang, XING, Baoda, MA, Xiaohong, ZHANG, Yanbin, YANG, Min, CUI, Xin, GAO, Teng, WANG, Xiaoming, HOU, Yali, ZHAI, Han, WANG, Zhen, LU, Bingheng, CAO, Huajun, ZHANG, Naiqing, WU, Qidong

33: CN 31: 202010099070.2 32: 2020-02-18 54: POWDER DRY-PRESSING MOLDING DEVICE AND METHOD

00: -

The present invention relates to a powder drypressing molding device and method. The powder dry-pressing molding device includes a rack, the rack is provided with an first pressure mechanism, a workbench mechanism and a second pressure mechanism in sequence along an up-and-down direction, and one side of the workbench mechanism is provided with a scraping mechanism; the first pressure mechanism includes an upper slide block capable of moving up and down, and an upper punch is disposed at a bottom of the upper slide block; the workbench mechanism includes a middle mold seat, a workbench is fixed above the middle mold seat, a middle mold is disposed inside the middle mold seat, and a mandrel runs through the inside of the middle mold; the second pressure mechanism includes a lower slide block capable of moving up and down.

21: 2021/05209. 22: 2021/07/22. 43: 2021/09/06 51: A23N

71: QINGDAO UNIVERSITY OF TECHNOLOGY, RESEARCH INSTITUTE OF AGRICULTURAL MECHANIZATION, XINJIANG ACADEMY OF AGRICULTURAL SCIENCES

72: LI, Changhe, LIU, Mingzheng, WANG, Xiaoming, YANG, Huimin, LI, Xinping, LIU, Xiangdong, TURDI, Tuluhon, CHE, Ji, GAO, Lianxing, ZHAO, Huayang, ZHANG, Xiaowei, ZHANG, Yanbin, CHEN, Yifei, HOU, Yali

33: CN 31: 202010286421.0 32: 2020-04-13 54: SAME-CAVITY INTEGRATED VERTICAL HIGH-SPEED MULTISTAGE SUPERFINE PULVERIZING DEVICE AND METHOD FOR WALNUT SHELLS

00: -

The present invention discloses a same-cavity integrated vertical high-speed multistage superfine pulverizing device and method for walnut shells. The same-cavity integrated vertical high-speed multistage superfine pulverizing device for walnut shells includes a double-channel sliding type feeding device and a same-cavity integrated vertical pulverizing device. The same-cavity integrated vertical pulverizing device includes a material lifting disc and a same-cavity integrated vertical pulverizing barrel. A first-stage coarse crushing region, a second-stage fine crushing region, a third-stage pneumatic impact micro pulverizing region and a fourth-stage airflow mill superfine pulverizing region are disposed in the same-cavity integrated vertical pulverizing barrel. Walnut shells falling through the double-channel sliding type feeding device are uniformly lifted by the material lifting disc to a wedge-shaped gap of the first-stage coarse crushing region to be coarsely crushed, and coarsely crushed materials are finely crushed by the second-stage fine crushing region through a two-stage wedge-shaped direct-through gradually reducing gap.

54: OKRA POLYSACCHARIDE EXTRACT AND ITS PREPARATION METHOD AND APPLICATION 00: -

The invention relates to a method of extracting okra polysaccharides from okra, which belongs to the

^{21: 2021/05215. 22: 2021/07/23. 43: 2021/08/27} 51: B01D

^{71:} Xuzhou University of Technology

^{72:} Miao Xuyan, Chen Shanglong, Li Chao, Chen Anhui, Liu Enqi

field of agricultural products processing technology; it includes: (1) taking fresh okra young fruit, sieving it to remove the attachment on the surface of okra, weighing it, and cutting it into dice of about 0.5cm×0.5cm. (2) Put the diced okra into water at 90C~100C for 7~10 seconds, then remove and cool to room temperature, add deionized water and grind into a homogenate. To the homogenate obtained in step (2), add 0.1-2.0% by weight of okra protease and 0.1-2.0% by weight of okra cellulase, add 0.1%-1% by weight of raw material calcium salt, adjust pH to 6-8, and stir at 50-60C for 6-10h. (4) Adjust the pH of the enzymatic solution obtained from step (3) to 3.0~5.5 and add sulfate solution, stir well, filter and collect the filtrate; (5) ultrafiltrate the filtrate obtained from step (4), collect the retention solution and spray dry; the present invention adopts the method of multiple enzymes compound enzymatic digestion to improve the yield and purity of okra polysaccharide.

21: 2021/05216. 22: 2021/07/23. 43: 2021/09/06 51: C02F

71: Hengyang Normal University

72: Zeng Rongying, Tang Wenqing, Tang Siping, Wang Shuzhan, Yi Nengzhong, Wang Zefen, Yi Lu

54: FABRICS FOR AUTOCATALYTIC SEWAGE TREATMENT

00: -

The invention relates to a fabric for autocatalytic sewage treatment, which comprises an autocatalytic surface layer, a support layer and an autocatalytic bottom layer, the support layer woven and connected the autocatalytic surface layer and the autocatalytic bottom layer in the shape of "11", the autocatalytic surface layer was woven in the shape of "1X1", and the autocatalytic bottom layer was woven in the shape of "1X1". The invention is arranged with a three-dimensional fabric structure. During the sewage treatment process, the warp yarn in the vertical direction can be used to make good contact with the heavy metals in the sewage, it avoids the problem that the surface of traditional fabrics in contact with sewage is reduced due to the overlapping structure, which leads to the weakening of the adsorption effect; Adopting a multi-layer structure design to combine fabric layers with different adsorption efficiency, it not only ensures the mechanical properties of the fabric, but also

increases the adsorption efficiency of the fabric. Not only can the adsorption of metal ions be ensured, the water permeability of the fabric can also be guaranteed, and the adsorption effect can be ensured.

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.

21: 2021/05337. 22: 2021/07/28. 43: 2021/08/18 51: C09D

71: QINGDAO UNIVERSITY OF TECHNOLOGY 72: XIONG, Chuansheng, JIN, Zuquan, YU, Yong, ZHANG, Xiaoying, WANG, Penggang, LI, Ning, LI, Zhe, XU, Xiangbo

33: CN 31: 202010779819.8 32: 2020-08-05 54: ORGANIC-INORGANIC COMPOSITE INTERCALATION LAYERED DOUBLE HYDROXIDES-BASED CORROSION INHIBITOR, AND PREPARATION METHOD AND APPLICATION THEREOF 00: -

The present invention relates to an organic-inorganic composite intercalation LDHs-based corrosion
inhibitor, and a preparation method and an application thereof. The organic-inorganic composite intercalation LDHs-based corrosion inhibitor includes LDHs, vitamin C anions and nitrite, wherein the vitamin C anions and the nitrite respectively replace interlayer anions of the LDHs, and the vitamin C anions are vitamin C with lost hydrogen ions. The preparation process is: firstly calcining the LDHs, and then respectively performing ion exchange reactions with the nitrite and the vitamin C to obtain the organic-inorganic composite intercalation LDHsbased corrosion inhibitor. The corrosion inhibitor provided by the present invention has better erosion resistance to chloride ions, and meanwhile has the advantages of corrosion resistance time.

21: 2021/05371. 22: 2021/07/29. 43: 2021/08/25 51: A47L; B01D

71: Qingdao University of Science and Technology 72: Zhang Yubing, Cao Wei, Wei Qingli, Lv Jian 54: DISHWASHER WATER FILTER SYSTEM AND DISHWASHER WASHING PROGRAM 00: -

The present invention discloses a dishwasher water filter system and a dishwasher washing program. A water filter system made based on the technical solutions provided can clean dishes while saving water resources. Further specifically, the system uses filtration and RO to remove calcium, magnesium, and other heavy metal ions, residual chlorine, and bacteria in water. The dishwasher washing program controls the water addition for each round of washing based on TDS detection data of the water, where it is mandatory to use pure water for the last round of rinsing. The dishwasher water filter system according to the present invention includes a water filter module, a water storage module, an allocation module, a control unit, and a dishwasher module. The water filter module includes a PP cotton filter element, a front activated carbon filter element, a booster pump, an RO membrane, solenoid valves, a low voltage switch. The water storage module includes a waste water tank and a pure water tank (or only a pure water tank, or no water tank), a TDS detection component, and four solenoid valves. The allocation module is a four-way valve. The control unit programmatically controls the solenoid valves and the booster pump of the above modules.

- 21: 2021/05374. 22: 2021/07/29. 43: 2021/08/25 51: A01K
- 71: Xianchao Liao
- 72: Xianchao Liao

54: A METHOD FOR ECOLOGICAL ENVIRONMENT-FRIENDLY CIRCULATING BEEF CATTLE BREEDING 00: -

Disclosed is a method for ecological environmentfriendly circulating beef cattle breeding, comprising detailed steps as follow: 1) For beef cattle that bred inside farm for 7-15 days, first feed high quality green grass, dry grass, wheat straw, peanut seedlings, clear drinking water, and gradually mix in silage, ammoniated feed, and distiller's grains; starve beef calves for 1 to 2 days before feeding them with concentrated feed, using anti-stress concentrated feed; 2) For beef cattle bred in farm for 15-20 days, increase the amount of concentrate fed, and feed the concentrate at 0.8% of the beef cattle body weight; roughage is fed without limitation for continuously few days; gradually increase the proportion of said concentrated feed; 3) For beef cattle bred in farm for 110 to 120 days, proportion of concentrated feed in the diet is as follow: 55% to 60% for 1 to 20 days, 65% to 70% for 21 to 50 days, and 75% for 51 to 90 days and 80% to 85% for 90 to 120 days; advantages of this invention are as follow: it can effectively improve the economic benefits of beef cattle breeding with remarkable effect; it can promote the progress of cattle-related industries and increase employment opportunities.

21: 2021/05375. 22: 2021/07/29. 43: 2021/08/25 51: A23L

71: Qinghai Academy of Agricultural and Forestry Sciences, Qinghai Dayao Ecological Agriculture Science and Technology Development Co., Ltd. 72: Xijuan Yang, Bin Dang, Wengang Zhang, Jie Zhang, Mengmeng Zhao, Shengzhi Gan, Jie Zhai, Jianbo Li

54: MODIFICATION TECHNOLOGY OF HIGHLAND BARLEY BRAN AND ITS APPLICATION 00: -

The invention discloses a modification technology of highland barley bran and its application, which includes the following steps:(1) preparation of raw materials, (2) adjustment of moisture, (3) enzymatic hydrolysis, (4) extrusion, (5) grinding, (6) standby;

the application of modified bran powder consists of the following steps:(7) preparation, (8) heating, (9) oiling, (10) adding, (11) stirring, (12) finished product. Compared with the prior art, the invention has the following advantages: according to the technological process, the technology of the invention is simple and easy to operate, the cost is low and the effect is high. The invention significantly improves the structure and taste of the highland barley bran and can meet the nutritional and taste needs of the public.

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.

21: 2021/05377. 22: 2021/07/29. 43: 2021/08/25 51: G06F

71: Xi'an University of Architecture and Technology 72: Zhu Ying, Li Yexin, Liu Quan, Liu Yanzheng, Du Hongxia, Cao Yan

54: AIR POLLUTION RISK EARLY WARNING METHOD AND SYSTEM 00: - The present invention discloses an air pollution risk early warning method and system, including: an aircraft equipped with a sensor for monitoring atmospheric pollutants flies to a target area; Monitoring data of the sensor is transmitted to a data centre through a ground base station in real time; The data centre stores the monitoring data and carry out early warning processing; The user accesses the data centre and/or receives the early warning information sent by the data centre through the monitoring terminal. By adopting the technical scheme of the present invention, real-time alarms and predictions during the pollutants emission process can be provided to relevant departments and enterprises.

21: 2021/05378. 22: 2021/07/29. 43: 2021/08/25 51: C07C; C10L

71: China University of Petroleum (East China) 72: Zhang Jinhong, Yang Chaohe, Tian Yuanyu, Shan Honghong, Gao Chunxiao, Su Tong, Liu Jiming, Sun Haoyang, Chen Yaozheng 54: METHOD FOR PRODUCING CHEMICALS FROM CRUDE OIL BY DOUBLE-TUBE PARALLEL MULTI-ZONE CATALYTIC CONVERSION

00: -

The present invention discloses a method for producing chemicals from crude oil by double-tube parallel multi-zone catalytic conversion. The method comprises the following steps: feeding the crude oil directly or separating the crude oil into light and heavy components by flash evaporation or distillation after desalination and dehydration; strengthening the contact and reaction between oil gas and catalyst by using two parallel reaction tubes with novel structure, controlling the reaction by zones, carrying out optimal combination on feeding modes according to different properties of reaction materials, controlling suitable reaction conditions for different materials, and increasing the production of light olefins and aromatics.

00: -

<sup>21: 2021/05379. 22: 2021/07/29. 43: 2021/08/25
51:</sup> A10C
71: Qingdao Agricultural University
72: Lian Zhengguo, Wang Jiasheng
54: AXIS PINHOLE AMERICAN GINSENG
PNEUMATIC PRECISION PLANTER

The invention discloses a shaft pinhole type American ginseng pneumatic precision planter, which relates to the technical field of agricultural machinery. Including the frame, the curved surface shaping board is arranged at the lower front of the frame, and the front end of the curved surface shaping board is provided with an upwardly turned arc board; The seed-metering tray is set on the frame and behind the curved integral plate, the front end of the seed-metering tray is provided with an upwardly turned arc plate, and the bottom end of the seed-metering tray is a curved surface; The opener is arranged below the seeding tray. The beneficial effect of the present invention is that it can realize continuous secondary shaping on the high-wide arc ridge surface and precise seeding with consistent seeding depth. Solve the problems of inconsistent ditching depth and uneven seed distribution during the seeding process, improve seeding precision, and realize precise seeding; It can realize uniform seeding on the curved ridge surface and improve the seeding efficiency; The air suction sowing method is designed to ensure the integrity of the seeds to the greatest extent, and it can also prevent the number of seeds from each shaft pin cylinder from not exceeding two, and avoid the phenomenon of reseeding.

21: 2021/05380. 22: 2021/07/29. 43: 2021/08/25 51: C09K

71: Liaoning Petrochemical University 72: Ma Cheng

54: METHOD FOR PROPPANT FOR WATER-BASED FRACTURING FLUIDS

00: -

The invention relates to the field of petroleum engineering, in particular to a method of producing proppant for water-based fracturing fluids. The method mainly involves surface modification of aggregate materials such as ceramsite, quartz sand, artificial sand and reclaimed sand, in order to obtain supporting materials with hydrophobic and stable foam groups. Interfacial tension and foam suspension are used to slow down the settlement of the proppant and improve the proppant paving effect.

21: 2021/05381. 22: 2021/07/29. 43: 2021/08/25

51: C12N; C12Q

71: Shandong Academy of Grape 72: LI, Tinggang, WEI, Yanfeng, TANG, Xiaoning, JIANG, Xilong

33: CN 31: 202110799521.8 32: 2021-07-15 54: METHOD FOR CONSTRUCTING AGROBACTERIUM-MEDIATED GENETIC TRANSFORMATION SYSTEM OF BOTRYTIS CINEREA IN GRAPE

00: -

Provided is a method for constructing an Agrobacterium-mediated genetic transformation system of Botrytis cinerea in grapes. A support medium is spread on a co-culture medium supplemented with acetosyringone, an exogenous gene-containing Agrobacterium suspension is mixed with a conidial suspension of B. cinerea, a resulting mixture is spread on the support medium for coculture, and the support medium is transferred onto a Potato Dextrose Agar (PDA) supplemented with hygromycin B and cefotaxime sodium for screening culture to obtain a positive transformant. The disclosure establishes and optimizes an Agrobacterium-mediated genetic transformation system of B. cinerea, and can obtain high genetic transformation efficiency by analyzing conidium concentration, acetosyringone concentration, coculture temperature and time, and hygromycin B and cefotaxime sodium concentrations. Meanwhile, the method can obtain transformants that stably inherit hygromycin resistance and high-proportioned singlecopy insertion transformants, providing a basis for performing a gene functional analysis of B. cinerea in grapes in the future.

21: 2021/05417. 22: 2021/07/30. 43: 2021/09/06 51: F04B

71: Anhui University of Science and Technology 72: Wang Quan, Li Xiaochen, Huang Wenyao, Li Zhimin, Wang Fengqi, Yang Li'ao, Li Rui, Cheng Yangfan, Li Xuejiao

54: TWO-STAGE VACUUM-PUMPING EXPLOSION PROCESSING PLATFORM IN A SPHERICAL TANK 00: -

The invention discloses a two-stage vacuumpumping explosion processing platform in a spherical tank, which comprises an explosion platform, a damping assembly, a cylinder and a twostage vacuum-pumping cover, wherein that explosion platform is installed inside the spherical tank; An explosion platform base 3 is installed at the lower end of the explosion platform. The base is located above the damping components. The invention proposes a processing platform for explosive processing in a vacuumized spherical tank body, and allows higher vacuum degree; The platform in this invention can significantly reduce the ground vibration and noise caused in the explosive processing process, and can be installed in universities or densely populated urban areas; The processing platform has no welding spot with the spherical tank in structure, has excellent stability and does not damage the spherical structure of the spherical tank; The processing platform can improve the quality of explosive processing and study the processing effect of explosive processing under different pressures.

21: 2021/05418. 22: 2021/07/30. 43: 2021/08/27 51: C04B

71: Hubei Xinyangfeng New Building Material Technology Co., Ltd.

72: SUN, Xiaopei

33: CN 31: 202110446425.5 32: 2021-04-25 54: SPHERICAL PHOSPHOGYPSUM, AND PREPARATION METHOD AND USE THEREOF 00: -

A spherical phosphogypsum, and a preparation method and use thereof are disclosed. The spherical phosphogypsum is prepared from raw materials including a phosphogypsum powder, a cement, and a modifying agent, wherein the modifying agent includes alkaline lignin and/or ferrous sulfate. The spherical phosphogypsum has a high physical strength, is not easy to break, and shows a prominent retarding effect. Where the modifying agent includes lignin, the spherical phosphogypsum could also increase the strength of the cement and reduce water demand for the mixing. Where the modifying agent includes ferrous sulfate, the spherical phosphogypsum could also reduce the content of water-soluble hexavalent chromium in the cement. The spherical phosphogypsum of the present disclosure includes a large amount of phosphogypsum powder, which helps to promote the balance between production and consumption of phosphogypsum, and fundamentally solves the ecological and environmental protection problems resulting from phosphogypsum.

21: 2021/05419. 22: 2021/07/30. 43: 2021/08/27 51: G06F

71: Zhengzhou Shengda University of Economics, Business and Management, ZSDU

72: Zhou Xiangzhen, Li Xin, Zhang Hui, Liu Xaodong, Feng Yingchao 54: A METHOD AND DEVICE FOR REALIZING

HUMAN-COMPUTER INTERACTION BASED ON CAMERA

00: -

The invention discloses a method and device for realizing human-computer interaction based on camera, including human-computer interaction equipment and display equipment, wherein the human-computer interaction equipment includes a video capture device, a video processing device, and an instruction output device. The video capture device is used to collect the user's movement changes and transmit them to the video processing device. The video processing device includes a signal processing module and a signal output module. The video processing device is used to process the signal sent by the video capture device, and perform data operations to obtain the user's motion path. The video output device is used to output the coordinate signal output by the video processing device, so as to realize human-computer interaction. This new model is easy to carry, has high-precision recognition capabilities, is low in price, does not require user adjustment, automatically matches the connected hardware, and realizes highly intelligent human-computer interaction technology. This technology has excellent comprehensive performance and is especially suitable for home use.

71: Zhengzhou Shengda University of Economics, Business and Management, ZSDU
72: Li Xin, Zhou Xiangzhen, Ren Gang, Hu Guangxin, Zhang Hong, Zhou Feifei
54: BIG DATA IMPLEMENTATION SYSTEM AND METHOD BASED ON NETWORK SECURITY 00: -

The present disclosure discloses a big data implementation system and method based on network security. A big data implementation platform of the system comprises: a big data acquisition module, a big data preprocessing module, a big data

^{21: 2021/05420. 22: 2021/07/30. 43: 2021/09/06} 51: H04L

processing module, a network security monitoring module, and a controller. The network security monitoring module comprises a network detection unit, a visitor authentication unit, and a traffic monitoring unit. According to the present disclosure, data are acquired from multiple channels in parallel by a data receiver with a plurality of data interfaces, priority numbers and frame numbers are added to packed frame data, and the acquired data are hierarchically stored at the same time, so that the stored data are output after being parsed and filtered based on the priority numbers and frame numbers. That is, in the process of big data implementation, the acquisition efficiency is high and a large volume of data can be acquired by acquiring data from multiple channels. The data stored hierarchically are output based on the priority numbers and frame numbers to ensure ordered data transmission, thus reducing network congestion and data loss, and improving data processing efficiency and resource utilization.

21: 2021/05547. 22: 2021/08/06. 43: 2021/09/07 51: B01J: C01B: C08K

51. DUIJ, CUID, CUON 71. Zhaijang University of Tay

71: Zhejiang University of Technology 72: Zhang Qunfeng, Zhou Yuan, Feng Feng, Ma Lei, Lu Chunshan, Li Xiaonian

54: PREPARATION METHOD AND APPLICATION OF SULFUR MODIFIED ACTIVE CARBON SUPPORTED NOBLE METAL CATALYST 00: -

The invention discloses a preparation method and application of a sulfur-modified active carbon supported noble metal catalyst. The preparation method comprise that following step of: (1) impregnate active carbon with a sulfur compound Na2S or K2S by adopting an equal volume impregnation method to ensure the load amount of sulfur to be 0.1-4%, and vacuum dry the impregnated active carbon for 4-10 h at 90-200 degree Celsius to obtain the sulfur-supported active carbon; (2) carry out vacuum drying on the impregnated active carbon for 4-10 h at the temperature of 40-80 degree Celsius to obtain the active carbon supported with sulfur and noble metal; (3) carry out reduction on the active carbon supported with sulfur and noble metal for 3-10 h under an H2 atmosphere at the temperature of 80-160 degree Celsius to obtain the sulfur-modified

active carbon supported noble metal catalyst. The invention provides an application of the catalyst in selective hydrogenation reaction with high catalytic activity and selectivity on target product.

21: 2021/05548. 22: 2021/08/06. 43: 2021/09/07 51: A23L

71: Xuzhou University of Technology 72: Lihua Ma

54: DUCK STEAK AND PREPARATION METHOD THEREOF 00[°] -

This invention discloses a duck steak and preparation method thereof, relating to the technical field of food processing; this invention uses culled egg laying ducks as raw material; adds soybean dietary fiber; achieves dietary fiber recombinant duck steak process through steps of recombinant duck meat preparation; food additives mixing; curing; enzyme treatment; shape duck steak; cooking and cooling; said dietary fiber recombinant duck steak has better nutrition and is suitable for certain consumer groups such as patients that suffering from digestive tract diseases or those are hypoallergenic as well as the elderly.

71: Hangzhou Normal University Qianjiang College 72: Li Weidong, Jiang Xia, Yang Huayun, Liu Qi, Cao Yong

54: THREE-DIMENSIONAL INTEGRATION SYSTEM OF SNAIL-FISH-PLANT FOR CONTROLLING WATER EUTROPHICATION 00: -

The invention discloses a three-dimensional integration system of snail-fish-plant for controlling water eutrophication, which comprises an ecological floating bed, a fish culture area and a benthic organism area. The ecological floating beds are provided with a plurality of groups, which are arranged on the water surface in parallel and equidistantly, and floating green plants are uniformly planted or hydroponically cultivated on the ecological floating beds; the fish culture area and benthic organism area are arranged below the water surface at the lower end of the ecological floating bed, and the benthic organism area is provided with a bottom mud part, a submerged plant part and a snail activity

^{21: 2021/05549. 22: 2021/08/06. 43: 2021/09/07} 51: C02F

part. According to the invention, the highconcentration nitrogen and phosphorus water is purified and repaired by a bioremediation technology, so that the method has strong adaptability, high water repair efficiency per unit volume, ecological friendliness, low manufacturing and maintenance costs and good repair effect, and also provides economic benefits, saves repair funds, and is beneficial to application in water eutrophication areas.



21: 2021/05551. 22: 2021/08/06. 43: 2021/09/07 51: G06F; H04N

71: Su Yunqiao, Gao Ruitong, Su Beile 72: Su Yunqiao, Gao Ruitong, Su Beile 54: REMOTE CONTROL PLATFORM FOR DIGITAL MEDIA ART EXHIBITION 00: -

The invention discloses a remote control platform for digital media art display, which comprises a display device, a remote server and an environmental art exhibition light control device, wherein the remote server is respectively connected with the display device and the environmental art exhibition light control device. The display device comprises a bottom plate, wherein the top of the bottom plate is provided with a computer, a motor, a first vertical plate and a second vertical plate connected with the remote server. The environmental art exhibition light control device comprises a solar power supply module, a start module, a main control module connected with a remote server, a light-emitting module, a optical modulation module and an image projection module. By adopting the technical scheme of the invention, the remote control of digital media art exhibition can be realized.



- 21: 2021/05552. 22: 2021/08/06. 43: 2021/09/07
- 51: G06Q
- 71: Gao Ruitong, Su Yunqiao
- 72: Gao Ruitong, Su Yunqiao

54: INTELLIGENT CLOTHING DESIGN SYSTEM 00: -

The invention discloses an intelligent clothing design system, which includes a system control module. The system control module is used to control the system process of the intelligent clothing design system, coordinate the relationship between the modules, and start or adjust the operation of the modules; a database module is used to store various types of clothing information and design rules for clothing components; database management module, used to manage and coordinate various data information stored in the database module; judgment mechanism module, used to support and realize the use of design rules through the database management module and external rules for settings and perform judgment and reasoning; style design module, used to provide basic functions for the generation of clothing styles; interaction module, used to provide interactive interfaces and means between users and the system; the system of the

present invention has a reasonable design and a clear structure, which realizes the realization of clothing styles. The intelligent design provides a technical reference for the intelligent technology of clothing design.



21: 2021/05553. 22: 2021/08/06. 43: 2021/09/07 51: C04B

71: Yingkou Stone High Temperature New Materials Technology Co., Ltd.

72: YU, Zhanguo, CHEN, Xiaolin, HAO, Dong 33: CN 31: 202110040238.7 32: 2021-01-13 54: GAS PERMEABLE BRICK CONTAINING CORUNDUM CERAMIC BALLS AND PREPARATION METHOD THEREOF 00: -

The present disclosure discloses a gas permeable brick containing corundum ceramic balls and a preparation method thereof. The technical scheme used is as below: raw materials are in the following weight proportion: 60-70 weight parts of corundum ceramic balls, 5-10 weight parts of MgO.Al2O3 spinel micro-powder, 3-12 weight parts of mullite, 2-6 weight parts of alpha-alumina micro-powder, 0-2 weight parts of zirconia micro-powder, 0-5 weight parts of chromia micro-powder, and 4-6 weight parts of binder. The above raw materials are mixed according to a certain proportion of weight parts; the mixed materials are added into an elastic mould and sealed, then molded under an isostatic press; the green bricks removed from the mould are fed into a drying kiln for drying, and then sintered at high temperature.

- 21: 2021/05604. 22: 2021/08/10. 43: 2021/08/26 51: C05B; C05F
- 71: Qingdao Agricultural University
 72: ZONG, Haiying, SHI, Hongtao
 33: CN 31: 202110731677.2 32: 2021-06-29
 54: METHOD FOR PREPARING IMPROVED
 NUTRIENT SOIL FROM MUNICIPAL SLUDGE
 00: -

A method for preparing improved nutrient soil from municipal sludge as raw material, the method comprises raw material adjustment, material warehousing and addition of fermentation bacteria; Ventilation and oxygenation and temperature regulation; secondary fermentation. At last, the sludge organic fertilizer is obtained through fermentation. Use corn stover biochar, Bacillus megaterium PP84 and sludge to mix, use cow dung as a nutrient source, use Bacillus megaterium PP84 as a secondary fermentation bacteria source for microbial pretreatment of the sludge, decompose the organic matter in the sludge, and use carbonized corn stalks as a regulator to increase the clearance in the nutrient soil, supply oxygen through aeration, increase the reproduction of bacteria in it, increase the number of beneficial bacteria, and then add sodium alginate is used for thickening and wrapping to improve water retention performance, thereby obtaining nutrient soil with high nutrient content.



21: 2021/05605. 22: 2021/08/10. 43: 2021/08/25 51: B09C

72: Li Weidong, Jiang Xia, Yang Huayun, Liu Qi, Cao Yong, Sun Yan

54: GREEN PLANTING REMEDIATION METHOD FOR HEAVY METAL POLLUTED SOIL

The invention discloses a green planting remediation method of heavy metal polluted soil, which comprises the following steps: (1) open a drainage ditch on the heavy metal polluted soil and planting greenbelts along both sides of the drainage ditch; (2) scarify the soil of the greenbelts, apply organic fertilizer and divide the fertilized soil into three areas, wherein the area 1 is planted with greenbelt of Euonymus japonicus 'Aureo-marginatus' along the drainage ditch; area 2 is planted with greenbelt of pittosporum tobira along the greenbelt of euonymus japonicus 'Aureo-marginatus'; and area 3 is planted with greenbelt of cupressaceae along the pittosporum tobira greenbelt; (3) add an organic adsorbent into the soil of the greenbelts; (4) keep the water holding rate of greenbelt soil at 55~60 percent; after keeping the plants for 9~12 months, 11~15 months and 14~17 months respectively, remove the whole plants of Euonymus japonicus 'Aureomarginatus', pittosporum tobira and Cupressaceae are dug out and transplanted respectively. The green planting remediation method is worthy of popularization and application, it is green and environmental- and ecological-friendly, which requires low maintenance cost while providing good restoration effect and economic benefits for growers, as well as saving restoration funds for the government.

21: 2021/05606. 22: 2021/08/10. 43: 2021/08/25 51: H02S

- 71: Yancheng Institute of Technology
- 72: Wu Fan, Wei Wei, Li Aiqin

54: BIAXIAL PHOTOVOLTAIC DEVICE AND SYSTEM FOR CONTROLLING GREENHOUSE ENVIRONMENT

00: -

The invention provides a biaxial photovoltaic device and a system for controlling greenhouse environment. The biaxial photovoltaic device comprises a base; a first stepping motor installed on the base; a first rotating shaft connected with the first stepping motor; a supporting frame installed on the first rotating shaft; a second stepping motor installed at one end of the supporting frame far away from the first rotating shaft; a second rotating shaft connected with the second stepping motor, on which a photovoltaic panel is mounted, wherein the first stepping motor controls the support frame to rotate through the first rotating shaft to drive the photovoltaic panel to rotate in a first direction, and the second stepping motor controls the photovoltaic panel to rotate in a second direction through the second rotating shaft.



21: 2021/05607. 22: 2021/08/10. 43: 2021/08/25 51: G01F

71: Zaozhuang University, Chen Hongkai, Wang Shengjuan, Hu Xiewen

72: Chen Hongkai, Wang Shengjuan, Hu Xiewen 54: UNIVERSAL TEST DEVICE FOR SIMULATING IMPACT CHARACTERISTICS OF DEBRIS FLOW IN DEBRIS FLOW DITCH AND USING METHOD THEREOF

00: -

The invention relates to the field of special equipment for debris flow disaster reduction, and discloses a universal test device for simulating impact characteristics of debris flow in a debris flow ditch, which comprises a flow supply device, a flow guide plate capable of lifting and overturning and a high-speed camera capable of shooting the flow guide plate, wherein the lower end of the flow supply device is provided with a base, the flow supply device abuts against the upper end surface of the base, the flow supply device is communicated with a flow supply pipeline, the flow guide plate is positioned at the lower side of the flow supply pipeline, the front end of the flow guide plate

corresponds to the discharge end position of the flow guide plate, and a signal acquisition device is arranged on the flow guide plate. In addition, the invention also provides an application method based on the experimental device, which can simulate the flow process of debris flow and obtain corresponding data, and can study the evolution law of debris flow movement and the change law of impact load at the mouth of debris flow ditch.



21: 2021/05608. 22: 2021/08/10. 43: 2021/08/25 51: A01B

71: Jiangxi Agricultural University

72: Zhang Ling, Luo Laicong, Li Aixin, Liu Xiaojun, Deng Wenping, Lai Xiaoqin

54: EXTRACTION METHOD OF NITRIFICATION INHIBITORS FROM CAMELLIA OLEIFERA SHELL AND ITS APPLICATION IN AGRICULTURAL SOILS 00: - This application belongs to the technical field of Camellia oleifera shell reuse, and specifically relates to extraction of Camellia oleifera shell nitrification inhibitor and its application in emission reduction. The method for preparing the Camellia oleifera shell extract includes the following steps: collecting the Camellia oleifera shell, washing, drying, pulverizing, and sieving to obtain the oil-tea camellia shell powder; add water to the Camellia oleifera shell powder, extract at a constant temperature, then shake and filter, and the filtrate is the Camellia oleifera shell extract. The extract is applied to the soil, gas is collected regularly and the nitrous oxide content in the gas discharged from the soil is detected. It is found that the extract can greatly reduce the emission rate of nitrous oxide in the soil. The leaching liquid has a wide range of raw materials and a simple preparation method. It is a convenient and economically feasible method to reduce nitrous oxide emissions.



21: 2021/05609. 22: 2021/08/10. 43: 2021/08/25 51: G01R; G05B; G06F; H01H

71: Sichuan University of Science & Engineering 72: Wu Hao, Dong Xingxing, Chen Lei, Li Dong, Yang Yigiang

54: BUS FAULT AREA DETERMINATION METHOD BASED ON POWER FREQUENCY POLARITY COMPARISON

00: -

The invention discloses a bus fault area determination method based on power frequency polarity comparison, which comprises the following steps: acquiring fault component current of each associated branch after fault; Calculate reference current and virtual current by using fault component current of each associated branch; Respectively calculating a reference current reconstruction coefficient and a virtual current reconstruction coefficient containing a power frequency component according to the reference current and the virtual current; Calculating an included angle between a reference current reconstruction coefficient and a virtual current reconstruction coefficient; Set threshold value, if, it is judged as bus internal fault, otherwise it is bus external fault. The method for determining the bus fault area uses the included angle between the reference current reconstruction coefficient and the virtual current reconstruction coefficient to represent the polarity relationship between them, without extra filtering processing and phasor calculation, which greatly improves the operation speed. Meanwhile, only the fault current is selected to participate in the calculation, which avoids the influence of CVT transient characteristics on the rapidity and reliability of protection elements.



21: 2021/05610. 22: 2021/08/10. 43: 2021/08/25 51: F26B

71: ANHUI UNIVERSITY OF SCIENCE & TECHNOLOGY

72: LUAN, Jingjing, CHEN, Jun, MENG, Xiangzhao, ZHANG, Liming, LUAN, Zhenhui
33: CN 31: 202010997476.2 32: 2020-09-21
54: PARALLEL ROLLING TYPE CONTINUOUS DRYING MACHINE
00: -

The present invention discloses a parallel rolling type continuous drying machine, and relates to the field of drying mechanisms. The parallel rolling type continuous drying machine includes a sealing box base, and is characterized in that the top of the sealing box base is fixedly provided with two supporting plates, the two supporting plates are provided with five round through holes, the five round through holes are rotatably provided with a plurality of rotating shafts respectively, a supporting framework mechanism is fixedly disposed on the supporting plates, a support post is fixedly disposed on the top of the sealing box base, the top of the supporting post is fixedly provided with a servo motor, a material pushing mechanism is fixedly disposed on the supporting framework mechanism, and heat dissipation discs are fixedly disposed on the supporting framework mechanism. The present invention is reasonable in structure, materials fall onto a first vulcanized rubber conveying belt through a feeding device, the servo motor drives a driving gear to rotate, the materials sequentially fall onto different conveying belts through a transmission mechanism, four straight gears drive a pushing plate to swing, a cylindrical cam drives a stress rod to do reciprocating movement, and the stress rod drives two rack bars to do reciprocating movement.



21: 2021/05611. 22: 2021/08/10. 43: 2021/08/25 51: G06F

71: Hunan University of Technology and Business 72: Ma Beiling, Li Wenming, Qiu Qianli

54: A CROSS-INDUSTRY ACCOUNTING DATA PROCESSING METHOD AND SYSTEM 00: -

The present invention discloses a cross-industry accounting data processing method and system, including the following steps: (1) Input the collected receipts and electronic bills, place the receipts at the photo location for photographing and upload. The electronic bills are directly transmitted. (2) Adopt digital statistics forms for data statistics. (3) The collected data is uploaded to the accounting terminal and the cloud terminal. (4) The cloud terminal data is transmitted to the server through the network for backup storage and then uploaded to the audit terminal. (5) The accounting terminal data is uploaded to the cloud server after accounting processing; (6) The audit terminal conducts the book review. Compared with the prior art, the present invention has the advantages that it can completely retain the documentary evidence, and in the process of making accounts, it can be ensured that each step of the book is documented, and there won't be no evidence to support the situation, so as to ensure that the auditor can distinguish between miscalculations and deliberate data modification during the review process, which greatly improves the security of the company's funds.



21: 2021/05612. 22: 2021/08/10. 43: 2021/08/25 51: G01N

71: Anhui University of Science & Technology 72: ZHANG, Rongrong, MA, Dongdong, HUANG, Kun, SHI, Yuhang, YUAN, Pu 33: CN 31: 202011385612.9 32: 2020-12-01 54: HIGH-TEMPERATURE CYCLE EXPERIMENTAL FACILITY FOR ROCKS 00: -

The present disclosure relates to a high-temperature cycle experimental facility for rocks, which is composed of a water inlet bath, a water pump, a water inlet valve, a water storage tank, a drainage valve, a drainage bath, temperature sensors, a temperature monitoring system, a heating source, a heating control system, ventilation ring baffle plates, a thermal insulation bottom plate, a thermal insulation top plate, pressure control vent holes, a heat transfer plate, a rock sample, constant-pressure vent caps, and air holes. The rock sample is circumferentially provided with the heat transfer plate; the pressure control vent holes are formed in the thermal insulation top plate; the heat transfer plate is circumferentially provided with the ventilation ring baffle plates and the water storage tank; and the constant-pressure vent caps are arranged at an upper cover of the water storage tank.



- 21: 2021/05614. 22: 2021/08/10. 43: 2021/08/25 51: C08G
- 71: Jiangnan University

72: Xinxin Sang, Gang Wang, Liping Zhang, Caihua Ni

33: CN 31: 202011319250.3 32: 2020-11-23 54: METHOD FOR MAKING HYDROPHOBICALLY MODIFIED XANTHAN GUM SOLUTION AND APPLICATION THEREOF

00: -

The invention discloses a method for making a hydrophobically modified xanthan gum solution and application thereof, belonging to the field of xanthan gum modification. In the invention, the xanthan gum is reprocessed into fine powder, then a mixed solution of alkyl glycidyl ether is intermittently sprayed into the powder to promote the full contact between xanthan gum and alkyl glycidyl ether, thus the modified xanthan gum with good thickening effect is synthesized. The comprehensive rheological properties such as temperature resistance, salt resistance and viscoelasticity of the modified xanthan gum solution are improved. The invention provides a method for the application of non crosslinked xanthan gum fracturing fluid in oil field production and reservoir development. In addition, the preparation method of hydrophobically modified xanthan gum solution does not need to add catalysts in the modification reaction. The products have advantages of simple production process, low cost, and wide applications.



21: 2021/05616. 22: 2021/08/10. 43: 2021/08/25 51: C02F

- 71: NANJING HYDRAULIC RESEARCH INSTITUTE
- 72: WANG, Xiaojun, CHEN, Feng
- 33: CN 31: 202010808074.3 32: 2020-08-12

54: A RECLAIMED WATER TREATMENT UNIT, SYSTEM AND REGULATION METHOD 00: -

Disclosed are a reclaimed water treatment unit, system and regulation method, relating to the utilization of unconventional water resources. The treatment unit includes a water inlet assembly, a treatment assembly, and a water outlet assembly. The water inlet assembly is provided with a water inlet pipe and a sewage pipe. The treatment assembly is communicated with the water inlet assembly, and is configured to purify the sewage flowing into the treatment assembly. The water outlet assembly is communicated with the treatment assembly. The water outlet assembly is provided with a recycle pipe, and the recycle pipe is communicated with the water inlet assembly. The reclaimed water treatment unit provided by this disclosure can increase the utilization efficiency of reclaimed water, facilitating a high utilization of water resources.



21: 2021/05618. 22: 2021/08/06. 43: 2021/09/01 51: F42D

71: Anhui University of Science and Technology 72: WANG, Mengxiang, LIU, Ziqiang, PENG, Peng, WANG, Qi, CUI, Yi

54: BLASTING APPARATUS FOR ROCK UNDER MINE

00: -

The present invention relates to the technical field of blasting apparatuses, and discloses a blasting apparatus for a rock under a mine. The blasting apparatus includes a support device. A drilling device is provided on the support device. The support device drives, by using a motor, a rotary post to rotate, the rotary post rotates to drive a second rack to rotate, and the second rack rotates to

drive the drilling device to rotate in a horizontal direction. A first rack is driven, by using a first electric cylinder, to move, the first rack drives a first gear to rotate, and the first gear rotates to drive a second support plate to rotate upward, so as to drive the drilling device to rotate in a vertical direction, thereby completing an angle adjustment of the drilling device. The drilling device drives, by using a second electric cylinder, a drilling mechanism to move forward, a first motor is started to drive a drill bit to rotate to complete drilling of a hole, and then the hole is filled with explosives.



21: 2021/05626. 22: 2021/08/10. 43: 2021/08/25 51: H02B

71: SHANDONG GUANGYUN INTELLIGENT TECHNOLOGY CO., LTD.

72: ZHANG, Jingmin

33: CN 31: 201910781249.3 32: 2019-08-22 54: HIGH-VOLTAGE SWITCH CABINET SYSTEM AND METHOD FOR REPLACING HIGH-VOLTAGE SWITCH CABNET THEREOF

00: -

A high-voltage switch cabinet system including at least one high-voltage switch cabinet, a copper busbar, a copper incoming line, a support sleeve, a plurality of electric wrenches disposed on the support sleeve, and a plurality of operating handles disposed on the plurality of electric wrenches, respectively. The at least one high-voltage switch cabinet comprises an end cover including a plurality of slots. The copper busbar and the copper incoming line are fixedly connected to the at least one highvoltage switch cabinet. The copper busbar is T- shaped and perpendicularly connected to a bus. The section of the copper incoming line is rectangular. The copper busbar is a guide rail including a body and two ends. The two ends of the guide rail are bent to form two bending parts, respectively. The copper incoming line is disposed in a cavity formed by the two bending parts and the body of the copper busbar.



21: 2021/05671. 22: 2021/08/10. 43: 2021/08/25 51: A23K

71: HEXI UNIVERSITY

72: LUO, Guanghong, CHEN, Tianren, YANG, Shenghui, WANG, Lijuan, CHEN, Guoshun, CHENG, Jiyou, WANG, Danxia, LIU, Haiyan, SHAN, Huajia

33: CN 31: 202110442608.X 32: 2021-04-23 54: A TYPE OF CHICKEN FEED CONTAINING MICROALGAE AND CHINESE HERBAL MEDICINE AND THE PREPARATION METHOD THEREOF

00: -

The invention provides a type of chicken feed containing microalgae and Chinese herbal medicine and relates to the technical field of feed. The raw materials of chicken feed comprise a specific weight portion of corn, soybean cake powder, wheat bran, spirulina powder, chlorella powder, yellow ginseng powder, sophora flower powder, licorice powder, astragalus powder, isatis root powder, hawthorn powder, dandelion powder, cistanche powder, stevia rebaudiana powder and elaeagnus angustifolia powder. The chicken feed in the invention overcomes the problems in the prior art such as low absorption rate, drug residuals and the chicken and eggs failure in meeting the protein requirements. By means of reasonable mixing and adding of Chinese herbal medicine in feed and the combined action

with microalgae and other nutrient contents, the chicken feed can significantly improve the laying rate and immunity of chicken as well as the quality of chicken and eggs.

21: 2021/05673. 22: 2021/08/11. 43: 2021/08/25 51: C02F

71: Institute of Oceanology, Chinese Academy of Sciences

72: Zeng Zhigang, Yin Xuebo, Qi Haiyan

54: DEVICE FOR ENRICHING USEFUL ELEMENTS IN FLUID AT HYDROTHERMAL VENT 00: -

The present invention relates to a device for enriching useful elements in fluid at a hydrothermal vent. The device comprises a suction faucet, a suction telescopic manifold, a switch valve, an input tube, an output tube, a discharge telescopic manifold, a working cabin protection shell as well as a gravity settling bin, a centrifugal settling bin, a fine filtering bin, a fluid bin, a cation adsorption bin, an anion adsorption bin and a deep water pump which are respectively arranged in the working cabin protection shell and are sequentially connected from an inlet to an outlet, wherein the suction telescopic manifold and the discharge telescopic manifold are rotationally installed at the inlet end and the outlet end of the working cabin protection shell respectively, the inlet end of the suction telescopic manifold is connected with the suction faucet with a downward suction inlet, the outlet end of the suction telescopic manifold is connected with the gravity settling bin through the input tube, and one end of the output tube is connected with the deep water pump. The other end of the suction telescopic manifold is connected with the discharge telescopic manifold; and the switch valve is arranged on the suction telescopic manifold. In-situ sampling of the hydrothermal fluid integrally enriching fluid particles, the hydrothermal fluid and elements in seabed hydrothermal fluid can be completed.



21: 2021/05674. 22: 2021/08/11. 43: 2021/08/25 51: G01P

71: Anhui University of Science and Technology 72: Wang Haibo, Cui Zhibin, Wang Mengxiang 54: LABORATORY TEST AND APPLICATION OF A SINGLE-SIDE ANNULAR SLIT SHAPED POLYENERGY GRAIN 00: -

The invention discloses a single-side annular slit shaped polyenergy grain, which comprises a grain shell and explosives, wherein an annular slit is cut out of the grain shell along the axial direction at intervals of 2 to 3 times of the inner diameter of the grain shell; the width of the annular slit is 3 to 6 mm; and the angle of the annular slit is 120 to 180 degrees, and explosives are filled in the grain shell. The invention also provide a laboratory test method and a field application technology of that single-side annular slit shaped polyenergy grain. The laboratory test method can visually observe the distribution characteristics of the single-side circumferential blasting cracks, and can accurately measure the distribution of the single-side circumferential explosion stress field. The single-side annular slit shaped polyenergy grain was applied to roadway excavation blasting, and the results showed that the method can improve the crushing effect of the slot cavity, reduce the lump rate, improve the throwing effect of cutting blasting, reduce the stress clamp applied to rock, improve the utilization rate of blast hole and the excavation footage, shorten the excavation operation time and save the economic cost.



21: 2021/05675. 22: 2021/08/11. 43: 2021/08/25 51: G01K

71: Institute of Oceanology, Chinese Academy of Sciences

72: Zeng Zhigang, Yin Xuebo, Qi Haiyan 54: INFRARED TEMPERATURE MEASURING DEVICE FOR SUBMARINE VENT FLUIDS BASED ON ROV OPERATION

00: -

The invention belongs to the research field of hydrothermal vent fluids, specifically, it is an infrared temperature measuring device for hydrothermal fluids based on ROV(Remote Operated Vehicle) operation, with a control panel installed at the top of the main body, an adjusting rod slidably arranged inside the main body and fixed by a locking bolt inserted into the main body after sliding into place, the top of the adjusting rod connected to the inner wall of the main body by a buffer spring, the upper end of the telescopic rod component hinged to the lower part of the adjusting rod, and the lower end of the telescopic rod component hinged to the main body; the bottom part of the main body is installed with a bearing block, and both sides of the bearing block are symmetrically provided with mechanical manipulators, and the upper end of the mechanical manipulator on each side is hinged to the telescopic rod component, while its lower end is mounted with clamp; the lower end of the connecting rod is hinged to the mechanical manipulator. A connecting rod is arranged between the bearing block and the mechanical manipulator on each side, the upper end of the connecting rod is hinged with the bearing block, and the lower end of the connecting rod is hinged with the mechanical manipulator. Such arrangement enables the invention with characteristics of simple structure, good performance and simple operation.



21: 2021/05704. 22: 2021/08/12. 43: 2021/09/06 51: B32B; B65D; D21H

71: Qilu University of Technology 72: Wu Qin 54: PAPER-BASED MATERIAL SURFACE

COATING AGENT, WRAPPING PAPER AND PREPARATION METHOD THEREOF 00: -

This invention discloses paper-based material surface coating agent, wrapping paper and preparation method thereof, according to parts by mass, the preparation raw materials of the paperbased material surface coating agent comprise 1-200 parts of lignin, 1-100 parts of isocyanate, 0.1-10 parts of dopamine or its salt, 0.1-10 parts of zinc salt and 0.1-10 parts of catalyst. The preparation method of the paper-based material surface coating agent comprises the following steps: dissolving lignin, isocyanate, dopamine or salts thereof, zinc salt and catalyst in a solvent, mixing, reacting, and then evaporating the solvent to obtain the paper-based material surface coating agent. According to the paper-based material surface coating agent disclosed by the invention, the strength, water resistance, oil resistance and antibacterial properties of the paper-based packaging material can be remarkably improved, and the used materials are all biodegradable materials, so that the environmental protection is strong.

21: 2021/05705. 22: 2021/08/12. 43: 2021/09/06 51: A01K

71: Qingdao Agricultural University, Dalian Ocean University, XinYuLong Marine Organisms Seed industry technology co., LTD, Dandong Zheng Run Food Co., Ltd

72: Zhao Yuming, Liu Bo, Su Yanming, Li Shuangshuang, Li Chunye, Wang Chunde 54: NEW METHOD FOR BREEDING ABALONE SPAT

00: -

The invention discloses a method for breeding abalone sapt, which comprises the following steps: A. cultivating benthic diatoms by adopting strong illumination of 2500-3500lx. B. Directly cultivating abalone planktonic larvae in a benthic diatom pond, forming the shell about 10 hours after the abalone larvae break the membrane and float upwards, and putting the abalone planktonic larvae into the benthic diatom pond. At this time, it is necessary to tilt the benthic diatom plate basket so that the benthic diatom corrugated plate forms an angle of 45 degree

Celsius with the bottom surface of the pond. C. When the remaining amount of benthic diatoms is small, throw fresh Laminaria japonica, fresh Undaria pinnatifida or Ulva lactuca soaked in 0.5 betaine seawater solution for 20 minutes above the basket, which can attract more than 80 percent of abalone sapts to transfer to fresh seaweed, shake off (such as tapping benthic diatom board with rubber pipe) more than 90 percent of the remaining abalone sapts on the benthic diatom plate by vibration, and wipe off the remaining seedlings on the plate by sponge with water by traditional method. In order to ensure the freshness of betaine seawater solution, betaine solution should be replaced and reconstituted after being used for 3 hours. D. The abalone sapts newly free from the benthic diatom plate are fed with powder feed of juvenile abalone filtered by a sieve with a mesh diameter of about 83 µm, and 200 mL of benthic diatom smearing liquid with a concentration of 1 million cells/mL should be mixed in each kilogram of juvenile abalone feed before feeding. The method changes the time when abalone larvae enter the benthic diatom pond in the previous technology, so that the planktonic larvae are cultured in large space and low density, thus reducing the mechanical damage caused by onetime screen dragging, well solving the problem that abalone planktonic larvae die in a large number during the attachment metamorphosis period, improving the survival rate and the attachment metamorphosis rate of the larvae. It also reduces the funds for the purchase, cultivation, induced spawning and employment of the re-breeded abalone spats, and reduces the production cost.

21: 2021/05706. 22: 2021/08/12. 43: 2021/09/06 51: C12Q

71: Nanjing First Hospital

72: Zhang Daimin, Sun Chongxiu, Xiong Jing, Sun Xuan, Zhao Liangping, Chen Shaoliang 54: PRIMER AND PROBE AND KIT FOR FLUORESCENCE QUANTITATIVE PCR OF NUCLEIC ACID IN HUMAN MACROPHAGE 00: -

The present invention relates to a primer, a probe and a kit for fluorescence quantitative PCR of nucleic acid in human macrophage; the kit includes primer and probe; the primer is as shown in SEQ ID No.1 and 2; the probe is prepared by adding

fluorescent luminescent group and fluorescence quenching group at both ends of nucleic acid as shown in SEQ ID No.3; the primer of the invention can amplify product of 206 bp. With clear technical advantages, the primer, probe and kit of the present invention can be used to rapidly detect the expression level of calcium-activated potassium channels in human macrophage with obvious specificity and sensitivity, and can be widely used to determine the function of macrophage and the therapeutic effect, which is of practical clinical application value and will generate good economic benefits.



21: 2021/05736. 22: 2021/08/04. 43: 2021/09/06 51: C04B; G01B; G01M; G01N

71: Zhengzhou Institute of Aeronautical Industry Management

72: Li Han, Shi Ke, Guan Qiaoyan, Zhu Qian, Xie Xiaopeng

54: METHOD, DEVICE AND READABLE MEDIUM FOR EVALUATING STRUCTURAL STRENGTH OF FIBER AND NANO REINFORCED CONCRETE 00: -

The invention discloses a method, a device and a readable medium for evaluating the structural strength of fiber and nano reinforced concrete, which comprises the following steps: obtaining the sound velocity of a test fiber and nano reinforced concrete test block; Based on the relationship between the compressive strength of fiber and nano reinforced concrete and the sound velocity of fiber and nano reinforced concrete, the strength of fiber and nano reinforced concrete test block is derived; Based on the measured parameters and design input parameters of experimental fiber and nano reinforced concrete, the strength of local solid fiber

and nano reinforced concrete is judged and the deviation of strength of each part relative to structural compressive strength is evaluated. By adopting the technical scheme of the invention, the design strength of each part and the deviation from the tensile strength of the structure can be evaluated and corrective measures can be given.



21: 2021/05771. 22: 2021/08/13. 43: 2021/09/06 51: F23G

71: Yancheng Institute of Technology

72: Dong Xiaohui, Zhen Shucong, Ma Ruhong 54: NOVEL ANTI-CLOGGING SLUDGE INCINERATION EQUIPMENT

00: -

The invention discloses a novel anti-clogging sludge incineration equipment. The equipment comprises a boiler, a filter press and sludge incineration equipment matched with the boiler and the filter press. The sludge incineration equipment comprises an air drying mechanism, a boosting mechanism, a material spraying mechanism and a filter screen. The air drying mechanism comprises a horizontal

pipe. One end of the horizontal pipe is fixedly connected and communicated with the smoke exhaust pipe of the boiler, and the other end is communicated with the atmosphere. An axial flow fan is fixedly installed at one end of the horizontal pipe near the boiler, a crushing unit is arranged in the middle of the horizontal pipe, and a filter screen is arranged at the other end of the horizontal pipe. The horizontal pipe is fixedly connected and communicated with a riser between the filter screen and the crushing unit. The bottom end of the riser is fixedly connected and communicated with the material spraying mechanism. A discharge port of the material spraying mechanism is correspondingly arranged with a feed port of the boiler. A discharge port of the filter press is arranged right above the crushing unit. The invention can avoid boiler blockage and improve combustion efficiency.



21: 2021/05772. 22: 2021/08/13. 43: 2021/09/06 51: G01B; G01C; G01M

71: Anhui University of Science & Technology
72: Du Fei, Ma Tianbing, Zhang Zhihao, Hu
Weikang, Lyu Yinghui, Wang Xin
33: CN 31: 202110808171.7 32: 2021-07-16
54: METHOD FOR DIAGNOSING DEFECTS OF
RIGID TANK CHANNEL IN MINE VERTICAL
SHAFT

00: -

The invention discloses a method for diagnosing the defect of a rigid tank channel of a mine vertical shaft, which comprises a lifting system test bench, a tank, a three-way acceleration transducer, a signal acquisition instrument and a laptop. The three-way acceleration transducer is installed in the middle of the top of the tank through a magnet, and is connected with a signal acquisition instrument through a data transmission line, and the signal acquisition instrument is connected with a laptop

through a data cable. According to the method, the rigid tank channel of the vertical shaft hoisting system is taken as an object, real-time vibration acceleration signals are collected, the vibration signals are characterized by empirical mode decomposition combined with Hilbert spectrum, singular value decomposition is used for feature extraction and feature matrix is established, the support vector machine model is optimized by an algorithm, and the defect input mode of the rigid tank channel is identified and classified by using the algorithm. The method solves the problems of insufficient research on defects and faults of the rigid tank channel of the vertical shaft lifting system at the present stage, and low efficiency and low accuracy of the traditional diagnosis technique.



21: 2021/05773. 22: 2021/08/13. 43: 2021/09/06 51: H01L 71: Anhui University of Science & Technology 72: Du Fei, Ma Tianbing, Yin Liming, Hu Weikang, Zhang Zhihao, Sun Kaiheng, Wang Xin 33: CN 31: 202110808165.1 32: 2021-07-16 54: NONLINEAR MULTI-DIRECTIONAL PIEZOELECTRIC ENERGY HARVESTING DEVICE AND ENERGY HARVESTING METHOD

00: -

The invention discloses a nonlinear multi-directional piezoelectric energy harvesting device and an energy harvesting method, which comprises a bracket and a special-shaped cantilever beam, wherein the bracket is having a special-shaped cantilever beam fixedly connected to the right side of the inner top of the bracket, and a piezoelectric sheet is affixed to the top of the left side of the special-shaped cantilever beam, the top of the right side of the special-shaped cantilever beam is bonded with first magnet, the right side of the top of the bracket is fixedly connected with a spring, and the top of the spring is fixedly connected with second magnet. The present invention introduced magnetism to build nonlinear bistable system, which is advantageous to overcome potential barriers to achieve inter-trap oscillation, generate frequent bistable transition oscillation, and generate resonance under vibration excitation in a wide frequency range, thereby greatly improving the efficiency of broadband energy acquisition; in addition, the special-shaped cantilever beam structure of this structure can achieve vibration energy harvesting in three directions with magnetic excitation, and ultimately achieve broadband, multidimensional efficient vibration energy harvesting without real-time adjustment of structure spacing.



21: 2021/05911. 22: 2021/08/18. 43: 2021/09/01 51: G08G; G06Q; H04W

71: Civil Aviation University of China, Chongqing Jiaoyun City Card Technology Co., Ltd, Shenzhen Urban Data Technology Co., Ltd

72: Wei Ming, Yang Jian, Xu Jiyong, Zhang Chi, Zhou Fuhai, Fang Hai

54: MULTI-MODE TRAFFIC SYSTEM OPTIMIZING AND DIAGNOSING METHOD BASED ON DIGITAL TWIN 00: -

The present invention discloses a multi-mode traffic system optimizing and diagnosing method based on digital twin, comprising: S1, obtaining coordinates of traffic elements of a multi-mode traffic network and historical traffic data in a to-be-tested region, and constructing a multi-mode traffic network predication model based on the coordinates of a road in the tobe-tested region and the historical traffic data; S2, acquiring current traffic data through a sensor of the multi-mode traffic network, and synchronously transmitting the current multi-mode traffic data to the multi-mode traffic predication model, and obtaining predication results of a current multi-mode traffic network condition in real time; S3, constructing a global networking digital twin model based on the predication results of the current multi-mode traffic network condition; and S4, accomplishing diagnosis on the multi-mode traffic condition based on the global networking digital twin model, and optimizing the multi-mode traffic of the road based on the traffic condition diagnosis results. The multi-mode traffic system optimizing and diagnosing method based on digital twin not only can improve accuracy of multimode traffic network predication, and but also can be convenient for residents to transfer among various traffic modes such as subways, buses and civil aviation.



21: 2021/05912. 22: 2021/08/18. 43: 2021/09/01 51: A01D

71: QINGDAO AGRICULTURAL UNIVERSITY 72: Wang Fangyan

54: WELSH ONION HARVESTER 00: -

A low-resistance digging suspension type welsh onion harvester comprises a rack and a lowresistance digging apparatus; the low-resistance digging apparatus comprises spiral soil separating mechanisms and digging shovels arranged in pairs; each of the spiral soil separating mechanisms comprises a cone and a spiral soil separating protrusion fixed to an annular outer side of the cone, the cone is fixed to a front end of the rack, an output end of a hydraulic motor is in transmission connection with an first eccentric wheel via a belt, and the first eccentric wheel is connected with a digging shovel via a connector. The resistance of the harvester in the digging process can be reduced, the damage to the welsh onions during digging is reduced, the service life of the digging shovel is prolonged and meanwhile, the harvesting quality of the welsh onions is guaranteed.



21: 2021/05913. 22: 2021/08/18. 43: 2021/09/01 51: F42D

71: Anhui University of Science and Technology 72: Wang Haibo, Kong Xichen, Ma Shoulong, Wang Mengxiang, Wang Hao

54: COMBINED CUTTING METHOD OF SMALL HOLE REINFORCED FRACTURING GRAIN AND SINGLE-SIDE CIRCUMFERENTIAL SLIT GRAIN 00: -

The invention discloses a combined cutting method of a small hole reinforced fracturing grain and a single-side circumferential slit grain, which comprises the following steps. 1) Drilling. 2) Charging: the central cutting hole uses sectional charging structure and small hole reinforced fracturing grain. The bottom of the central cutting hole is filled with two sections of small hole reinforced fracturing grain, followed by 400-500 mmlong stemming, then a section of small hole reinforced fracturing grain, and finally plugged with stemming. The wedge cutting hole is filled with two sections of single-side circumferential slit grain and plugged with stemming. The auxiliary hole is filled with three sections of ordinary grain. 3) Blasting. The invention can increase the cutting cavity volume, increase the free surface, reduce the clamping force of surrounding rock, and improve the utilization rate of blast hole and explosive energy.



21: 2021/05914. 22: 2021/08/18. 43: 2021/09/01 51: B25J

71: SUZHOU YANKEXING INTELLIGENT

TECHNOLOGY CO., LTD.

72: WEN, Gaosen, LI, Shenghong, ZENG, Jingxia, LI, Guohui

54: INTELLIGENT MONITORING APPARATUS BASED ON INDUSTRIAL ROBOT

00: -

The present invention relates to the industrial robot technical field, especially an intelligent monitoring apparatus based on industrial robot, comprising an auxiliary device and a monitoring device; the auxiliary device comprises an agv (Automated Guided Vehicle) cart, one or more storage batteries are fixedly provided in one side of a upper end surface of the agv cart, one or more relays are provided on another side of the upper end surface of the agy cart, a rack is fixedly installed at four corners of an upper surface of the agv cart, the monitoring device is fixedly provided on an upper end portion of the rack. In the intelligent monitoring device based on intelligent robot, by cooperation of the agv cart, rotation of the first motor drives the threaded shaft to rotate, so that the gear is turning on a vertical plane, and vertical angles can be adjusted, by rotation of the second motor, the connection frame rotates too, therefore horizontal angle adjustment can be done; and by moving the monitoring device with the agv cart along a predetermined track, a desired area can be freely monitored, which is of high utility value.



21: 2021/05915. 22: 2021/08/18. 43: 2021/09/01 51: G06F

71: Shanghai Maritime University

72: Bangping Gu, Zhipeng Huo, Zhongshan Wang, Ping Wang, Xiong Hu

33: CN 31: CN202011021098.0 32: 2020-09-25 54: HIGH-FREQUENCY VIBRATION ENERGY AMPLIFICATION DEVICE WITH CLAMPING APPARATUS FOR SMALL WORK-PIECE 00: -

The present invention disclosed a high-frequency vibration energy amplification device with a clamping apparatus for a small work-piece, comprising four locking mechanisms, four guide elements, four movable supporting columns, two chute bodies, a working platform, a supporting platform and a connecting rod connecting the working platform with the supporting platform. Each locking mechanism is respectively connected with a guide element, each guide element is respectively connected with a movable supporting column, and each chute body is respectively connected with two movable supporting columns. Two chute bodies are mounted on the working platform. The high-frequency vibration energy amplification device with a clamping apparatus for a small work-piece proposed in the invention has the advantage of making the small work-piece vibrate according to its mode shape, so as to improve the effect of high-frequency vibratory stress relief to eliminate residual stress of the small work-piece.



21: 2021/05919. 22: 2021/08/18. 43: 2021/09/01 51: A01G

71: HENAN UNIVERSITY OF URBAN CONSTRUCTION

72: Jianmin Gao, Jun Qin, Yunsheng Yuan, Zhenying Zhu, Songhao Sun, Pangong He, Yongqi Yang, Guanghui Ma, Jing Mao, Jiyuan Wang, Qiusheng She

33: CN 31: 202121719834.X 32: 2021-07-27 54: MUSHROOM PLANTING HOLDER 00: -

The disclosure provides a mushroom planting holder to solve the shortcomings, such as the inconvenience of the existing mushroom planting holder for workers to pick mushrooms, and the problem of affecting the growth of mushrooms caused by the unevenly spraying the biogas slurry via manual work. The mushroom planting holder including: a planting holder; four sprockets rotatably installed on each of left and right inner walls of the planting holder; a chain connected between the four sprockets on a same side; a plurality of planting trays evenly distributed and rotatably connected between chains; several bacteria bags placed on every planting tray; a water pipe fixedly installed on a top of the planting holder; several water mist nozzles installed on a bottom of the water pipe; a picking sliding rail fixedly connected on a bottom of each of front and rear sides of the planting holder; and a picking stool installed on every picking sliding rail and slid left and right. The plurality of planting trays can circularly move on the planting holder, so that the mushrooms at high and low places can be

moved to the middle of the planting holder, which is convenient for workers to operate and pick.



21: 2021/05923. 22: 2021/08/18. 43: 2021/09/08 51: H02G

71: XUZHOU COLLEGE OF INDUSTRIAL TECHNOLOGY

72: XU, Yunhui, LIU, Taichuang, ZANG, Yanan, LIU, Feng, SONG, Shuaishuai, SHAO, Zefeng, LU, Gang, ZHANG, Min

54: AN ETHYLENE-PROPYLENE-DIENE MONOMER (EPDM) RUBBER PROTECTING SLEEVE FOR WIRES AND CABLES AND A METHOD FOR PREPARING THE SAME 00: -

The present disclosure provides an ethylenepropylene-diene monomer (EPDM) rubber protecting sleeve for wires and cables and a method for preparing the same, relating to manufacturing of rubber products. The EPDM rubber protecting sleeve is prepared from an EPDM rubber, a white carbon black, a light calcium cabonate, polyethylene alvcol (PEG)--4000, an anti-aging agent 4010NA, an anti-aging agent RD, an anti-aging agent MB, an anti-aging agent 264, paraffin, sulfur, Si-69, an accelerator M, an accelerator CZ, an accelerator EZ, an accelerator BZ, an accelerator TMTD, zinc oxide, stearic acid, petroleum resin, paraffin oil, titanium dioxide and a light-resistant agent UV-9. The method disclosed herein prepares premixed materials first; and then mixing and refining the rubber compound, followed by performing vulcanization characteristic curve tests and vulcanization to obtain rubber products.

21: 2021/05951. 22: 2021/08/19. 43: 2021/09/01 51: B01F; F24H

71: Beijing Academy of Agriculture and Forestry Sciences

72: Wu Fengxia, Zou Guoyuan, Zhang Xin, Liu Jianbin

54: SOLAR ENERGY TYPE ORGANIC WASTE TREATMENT EQUIPMENT AND APPLICATION METHOD THEREOF

00: -

The invention relates to a device for fertilizing organic wastes and an application method thereof. The device for fertilizing organic wastes comprises a drum, a drum bracket and an electric drive unit, wherein the outer wall of the drum has a polyhedral structure, the outer surface of the polyhedron is provided with a solar panel, one side of the polyhedron is provided with an openable cover, and a heater is arranged in the drum. The drum bracket is arranged below the drum, and the drum is rotatably arranged on the drum bracket. The electric drive unit comprises a storage battery, a motor and a transmission part, wherein the storage battery is respectively connected with the solar panel, the motor and the heater. According to the invention, solar energy is used for heating organic waste materials to promote the temperature rise, and the organic waste is aerobically fermented into solid and further fermented into liquid organic fertilizer, thereby realizing harmless and resource utilization of the organic waste.

54: NON-SURGICAL EMBRYO COLLECTION TOOL

00: -

The present invention disclose a non-surgical embryo collection tool, including embryo-flushing catheters, an embryo-flushing fluid container, an embryo collection tank and an embryo-flushing gun, wherein on a top of the embryo-flushing gun is provided the embryo-flushing fluid container, inside the embryo-flushing gun is provided an injection pipe, an end of the injection pipe is connected to the embryo-flushing fluid container, between the embryo-flushing fluid container and the injection pipe is provided a control valve, another end of the injection pipe is connected to the embryo-flushing catheters, inside the embryo-flushing fluid container are arranged a heating apparatus and a temperature sensor, the embryo-flushing gun is arranged to be connected to the heating apparatus and a controller of the temperature sensor, the controller includes buttons and a displayer, the embryo-flushing is provided with a one-way filling valve, and inside the embryo-flushing gun is provided a power supply. In the present invention a heating apparatus and a temperature control apparatus are used to heat the embryo-flushing fluid in real time, so as to ensure that the embryo-flushing fluid of a most appropriate temperature enters into animal bodies, thereby minimizing the damage caused to the animals when collecting embryos.



21: 2021/05952. 22: 2021/08/19. 43: 2021/09/01 51: A61D; A61M

71: Qingdao Agricultural University

72: FENG, Yanni, LI, Huatao, TIAN, Wenru



21: 2021/05954. 22: 2021/08/19. 43: 2021/09/01 51: G01N

71: Anhui University of Science & Technology 72: MA, Dongdong, XIANG, Huasong, SHI, Yuhang, HUANG, Kun, MA, Qinyong, ZHOU, Zhiwei 33: CN 31: 202110578094.0 32: 2021-05-26 54: DEVICE AND METHOD FOR PREPARING HIGH-ICE CONTENT FROZEN SOIL SAMPLE 00: -

The present disclosure relates to a device and a method for preparing a high-ice content frozen soil sample. A water inlet pipe and a water return pipe are connected to a water pump. The upper side of a sample tube is connected to the water return pipe. The lower side of the sample tube is connected to the water inlet pipe. The sample tube is mounted on a piston tray. Porous stone can be arranged at the position where the sample tube and the water inlet pipe are connected to the water return pipe. The lower part of the piston tray is connected to a connecting rod. A circumferential fixing device is arranged on the periphery of the piston tray. A bracket and a base are arranged below the circumferential fixing device. The connecting rod is connected to a motor through a crankshaft.



21: 2021/05955. 22: 2021/08/19. 43: 2021/09/08 51: C40B 71: ANHUI UNIVERSITY OF SCIENCE & TECHNOLOGY 72: SONG, Qi, HUANG, Yourui, HAN, Tao, XU, Shanyong, SONG, Hongping, LAI, Wenhao 54: CONSTRUCTION METHOD FOR CELL-LIKE MEMBRANE COMPUTING MODEL 00: -

The present invention relates to a construction method for a cell-like membrane computing model. The method may include the following steps: abstracting each membrane computing unit according to the characteristics of different organs in cells; dividing the membrane computing units according to regions, and marking data structures by means of character strings; independently completing, by each of the membrane computing units, respective specific computation by regarding biochemical reaction in a biological cell membrane as a computing process; abstracting an intermembrane transportation channel to realize communication between independent membrane computing units by regarding material exchange between the organs in cells as information exchange between the membrane computing units according to a transportation mode of protein exchanged between different organs in cells; realizing approach of the independent membrane computing units to a solution unit in a way of intercellular fusion according to a cell nucleus as a carrier of cell genetic information.



21: 2021/05957. 22: 2021/08/19. 43: 2021/09/01

51: B23Q

71: Qingdao University of Technology, Shanghai Jinzhao Energy Saving Technology Co., Ltd., Shaanxi Jinzhao Aviation Technology Co., Ltd. 72: YANG, Min, LI, Changhe, WU, Xifeng, HAN, Yixue, ZHANG, Naiqing, WU, Qidong, CAO, Huajun, GAO, Teng, ZHANG, Yanbin, LU, Bingheng, YANG, Yuying, CUI, Xin, ZHAO, Xufeng, LIU, Mingzheng, JIA, Dongzhou, ZHANG, Xiaowei, MA, Hao 33: CN 31: 202011241667.2 32: 2020-11-09 54: INTELLIGENT SWITCHING SYSTEM FOR SWITCHING INTERNAL COOLING AND EXTERNAL COOLING BASED ON MINIMAL QUANTITY LUBRICATION AND METHOD 00: -

An intelligent switching system for switching internal cooling and external cooling and a method are provided. The system includes a vision system, a cooling system and a control system. The vision system monitors a real-time milling state of a cutter, collects a real-time milling depth image that the cutter mills a workpiece, and transmits the collected real-time milling depth image to the control system. The control system includes a lubrication mode control center, and a motor control center. The lubrication mode control center receives the realtime image transmitted by the image collection control center; analyzes and processes the real-time image to obtain real-time milling depth data of the cutter. The motor control center receives a signal sent by the lubrication mode control center; analyzes and processes the signal, and transmits a control instruction to the cooling system. The cooling system executes a switching command issued by the control system.



21: 2021/05962. 22: 2021/08/19. 43: 2021/09/01 51: G06F; H04L; H04W 71: QRYPTED TECHNOLOGY PTE LTD 72: LIM, Meng Check, CARVAJAL, Alvin Uy, ONG, Rainier Ngie, TOH, Bu Jeen Eric 33: SG 31: 10201902395S 32: 2019-03-18 54: METHOD AND SYSTEM FOR A SECURE TRANSACTION 00: -

The present invention herein relates to method and system for authenticating user, protecting user data, and resetting security code. One of the advantages of the present invention is the protection of data in transit to ensure a secure user authentication and user data protection both in transit and at rest. Another advantage of the present invention is through a new security code resetting method, user can be verified without the need of storing the user verification data in the platform.



21: 2021/06178. 22: 2021/08/26. 43: 2021/09/06 51: A01N; C05D

71: Jiangxi Puruifeng Ecological Technology Co., LTD

72: Liu Yun, Wen Yangping

54: SELENIUM-RICH SILICON-CONTAINING FOLIAR INHIBITOR FOR INHIBITING HEAVY METALS IN RICE AND PREPARATION METHOD THEREOF

00: -

The invention discloses a selenium-rich siliconcontaining foliar inhibitor for inhibiting heavy metals in rice and a preparation method thereof, belonging to the technical field of safe production of agricultural products. According to the invention, liquid sodium silicate is used as a main raw material, trace elements such as selenium, zinc, manganese and titanium coupled with silicone and composite

synergists such as chitosan are added, so that a leaf fertilizer with high efficiency of selenium enrichment and cadmium reduction for rice is prepared, and the purpose of controlling the movement and accumulation of heavy metal cadmium into rice while improving the selenium content of rice is achieved. The selenium-rich silicon-containing foliar inhibitor for inhibiting heavy metals in rice can effectively reduce the cadmium content in rice, promote the absorption and utilization of silicon, selenium and nutrients by rice, improve the disease resistance and stress resistance of rice, and improve the yield and quality of rice, and has great significance for ensuring the quality safety of rice and improving the health level of people.



21: 2021/06179. 22: 2021/08/26. 43: 2021/09/06 51: G01C

71: Shandong University of Science and Technology 72: Li Zhibin, Tang Zhiyong, Huang Diangang, Lin Jishuang, Zhang Qianghui

54: DISTRIBUTED AIRSHIP CONTROL SYSTEM 00: -

The invention discloses a distributed airship control system. The system comprises at least one collection drive unit, a core computer and at least one digital transmission bus. The collection drive units are distributed on the airship. On the one hand, the collection drive units collect the environment and running state information of the airship, convert the information into digital signals and send them to the core computer through the digital transmission bus. On the other hand, they receive the control commands of the core computer and control the actions of the actuator. The core computer is located in the airship pod, receives the environment and running state information of the collection drive unit through the digital transmission bus, and sends the control instructions to each collection drive unit

through the digital transmission bus after processing. The airship control system adopts distributed collection drive and centralized management control, which has strong flexibility and scalability.



21: 2021/06180. 22: 2021/08/26. 43: 2021/09/06 51: G06F

71: Shandong University of Science and Technology, Aerospace Information Research Institute (AIR), Chinese Academy of Sciences 72: Li Zhibin, Zhang Xiaojun, Sun Chongshang, Zhang Jianqiang, Wen Junchen 54: REMOTE PLANNING METHOD OF UNMANNED AERIAL VEHICLE AIR SAFETY CORRIDOR PATH

00: -

A remote planning method for the air safety corridor path of unmanned aerial vehicles, on the premise of avoiding potential safety hazards to ground facilities, air traffic management, social order and citizen life, it provides path planning services in air safety corridors for multiple unmanned aerial vehicles. First, receive service applications from users of unmanned aerial vehicles; secondly, establish a threedimensional mission space model based on the airspace scope of the plan; Third, consider the terrain features, ground facilities and safety constraints of the crowd, and air traffic management requirements to establish air safety corridors; moreover, further consider the impact of the user's aircraft attributes, weather and other environmental changes, and perform route planning services in the air safety corridor offline before the flight, so as to provide a basis for the user to declare a formal flight plan to the flight control department; Finally, in the actual flight process, combined with the actual changes of the aircraft status and the surrounding environment, dynamic path planning services are performed online.



21: 2021/06181. 22: 2021/08/26. 43: 2021/09/06 51: A23L

71: Ma'anshan Chunsheng Ecological Agriculture Co., Ltd, Anhui Academy of Agricultural Sciences Institute of Fisheries, Anhui Engineering Research Center for Turtle Farming Technology, Anhui Special Aquaculture Demonstration International Science and Technology Cooperation Base 72: Jiang Yelin, Wang Fen, Song Guangtong, Chen Zhu, Chen Yaohu, Wang Zechun, Zhang Ye, Wang

Jiajia, Wang Ling, Xu Bin, Zhou Xiang, Jiang Jingling, K.R.Salin, Isagani P.Angeles Jr, Somony Thay, Phyo Sandi, Xu Xiaona, Wu Yuchun, Su Youfeng, Mao Zaihua, Zuo Lin, Li Zhi, Li Jie 54: PREPARATION METHOD OF MEAT-FLAVORED POTATO CHIPS

00: -

The invention discloses a preparation method of meat-flavored potato chips, belonging to the technical field of food processing. The method comprises the following steps: (1) Preparation of meat sauce: firstly, the traditional Chinese medicine composition and chicken or mutton are decocted to prepare nutritional seasoning soup; Adding edible fungi into the soup for soaking, frying the soaked edible fungi, deoiling, pulverizing, and mixing it with seasoning to obtain meat flavor seasoning; then adding meat into the nutritious seasoning soup, pulping, mixing with the prepared meat flavor seasoning, and stirring uniformly to obtain meat flavor sauce; (2) Preparation of meat-flavored potato chips: peeling potatoes, slicing, soaking in water, then taking it out and drying to 60-70 percent, evenly spreading the meat-flavored sauce prepared in step (1) on potato chips, and continuing drying to prepare meat-flavored potato chips.

21: 2021/06182. 22: 2021/08/26. 43: 2021/09/06 51: C07B

71: Qiqihar Medical University

72: Bu Ming, Lin Yu, Li Hongling, Wang Haijun, Wang Jing, Ma Yukun

54: 3 BETA-HYDROXY-5 ALPHA,8 ALPHA-EPIDIOXYANDROST-6-ENE-17-N-((3-PHENYL-4-(AROMATIC RING SUBSTITUTED)) THIAZOLE-2)-HYDRAZONE DERIVATIVES AND PREPARATION AND APPLICATION THEREOF 00: -

3 Beta-hydroxy-5 Alpha, 8 Alpha -epidioxyandrost-6ene-17-N-((3-phenyl-4-(aromatic ring substituted)) thiazole-2)-hydrazone derivatives and preparation and application thereof belong to the field of medicinal chemistry. The invention relates to 3 Beta -hydroxy-5 Alpha,8 Alpha -epidioxyandrost-6-ene-17-N-((3-phenyl-4-(aromatic ring substituted)) thiazole-2)-hydrazone derivatives with structural formula(I). R1 represents -NO2 or -H. R2 represents -NO2, -OCH3 or -H. R3 represents -CF3, -CN, -OCH3, -OCF3, -NO2, -F, -Cl, -Br, -CH3, -OH or -H. Taking dehydroepiandrosterone as a raw material, firstly preparing 3 Beta -acetoxy-5-androstene-17one, then performing bromination and debromination reaction to obtain a 3 Beta -acetoxy-5,7-diene androst-17-one intermediate, hydrolyzing and reducing hydroxyl groups, then constructing a 5 Alpha,8 Alpha -peroxy bridge under illumination, and then reacting with 4-phenyl-3-thiosemicarbazide to obtain 3 Beta -hydroxy-5 Alpha,8 Alpha epidioxyandrost-6-ene-17-N-phenyl thiosemicarbazone derivatives. Finally condensing with different 2-bromoacetophenone substituents to produce 3 Beta -hydroxy-5 Alpha,8 Alpha epidioxyandrost-6-ene-17-N-((3-phenyl-4-(aromatic ring substituted)) thiazole-2)-hydrazone derivatives. The compounds of the invention have the function of preventing and treating cancers such as liver cancer and breast cancer.



21: 2021/06183. 22: 2021/08/26. 43: 2021/09/06 51: C08L 71: Xuzhou College of Industrial Technology 72: Xu Yunhui, Zang Yanan, Li Peipei, Zhang Lin, Cong Houluo, Liu Taichuang, Liu Feng, Song Shuaishuai

54: PROCESSING TECHNIQUE FOR PRODUCING RUBBER AUTO PARTS

00: -

The invention discloses a processing technique for producing rubber auto parts, which is carried out according to the following steps: after the raw material is processed, the sizing material is plasticized and mixed; then the mixture is batched out and stored, and the rubber auto parts are produced after filtering; wherein the rubber auto parts comprise strip and tubular parts, solid or sheet parts, thin-walled or special-shaped tubular parts, strip and tubular parts with framework, and nonstripe and tubular parts with framework. The beneficial technical effect of the invention: the technique required for the processing and production of various rubber auto parts is systematically teased out; the production efficiency of various parts is effectively improved, and the deficiency of the existing production lines is made up.



21: 2021/06184. 22: 2021/08/26. 43: 2021/09/06
51: E21B
71: Xi'an Langyi Software Technology Co., Ltd.
72: Liu Xiaojuan
54: A DIFFERENTIAL PRESSURE COMPRESSOR
GAS LIFT WELLHEAD PRESSURE RELIEF
DEVICE AND A PRESSURE RELIEF METHOD
THEREOF

00: -

The invention discloses a differential pressure compressor gas lift wellhead pressure relief device and a pressure relief method thereof, which belongs to the technical field of drainage gas recovery equipment. The pressure relief channel of the pressure relief separation chamber of the wellhead pressure relief device is communicated with the inlet pipe, the gas-liquid separation channel is communicated with the outlet pipe; each diversion unit is used to communicate the decompression channel with the gas-liquid separation channel, and is used for step by step decompression along the direction of the inlet pipe to the outlet pipe; each group of diversion units comprises at least two diversion channels; the slide valve structure is arranged in the decompression channel for the diversion channel pressure relief of each diversion unit; a discharge channel is provided with a discharge valve, which is arranged at the bottom of the gas-liquid separation channel for discharging the separated liquid; the inlet pipe and the outlet pipe are respectively provided with a pressure detection part. The invention also discloses a method for the pressure relief device to be used for the compressor gas lift wellhead pressure relief. The wellhead pressure relief device of the invention ensures the continuous working time of the compressor, improves the efficiency of liquid discharge and ensures the continuity of the gas lift measures of the compressor.



21: 2021/06207. 22: 2021/08/26. 43: 2021/09/03

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: 201910471347.7 32: 2019-05-31 54: ELECTROCALORIC ASSISTED INTERNAL COOLING TEXTURE TURNING TOOL AND NANOFLUID MINIMAL QUANTITY LUBRICATION INTELLIGENT WORKING SYSTEM 00: -

The present disclosure proposes an electrocaloric assisted internal cooling texture turning tool and a nanofluid minimal quantity lubrication (NMQL) intelligent working system. The electrocaloric assisted internal cooling texture turning tool comprises an internal cooling turning tool handle, a direction-adjustable nozzle and an internal cooling turning tool blade; the internal cooling turning tool blade is arranged at one end of the internal cooling turning tool handle serving as a bearing device; an internal cooling turning tool pad is arranged between the internal cooling turning tool blade and a structure of the internal cooling turning tool handle bearing the blade; an internal cooling turning tool blade pressing device is further arranged on the internal cooling turning tool handle; the internal cooling turning tool blade is tightly pressed on the internal cooling turning tool handle by the internal cooling turning tool blade pressing device.



21: 2021/06208. 22: 2021/08/26. 43: 2021/09/03 51: G01P

71: ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, HUAINAN SPECIAL EQUIPMENT SUPERVISION AND INSPECTION CENTER 72: CAI, Feng, YAN, Zhuo, LIU, Yang, ZHANG, Yu 33: CN 31: 201911092292.5 32: 2019-11-11 54: ULTRASONIC WIND SPEED SENSOR FOR DOWNHOLE COAL MINES 00: -

The present invention discloses an ultrasonic wind speed sensor for downhole coal mines, which comprises a base. The base is hung and connected to a tunnel roof. A three-dimensional gyro sensor is mounted in a center of an upper horizontal plane of the base. A first transmitting terminal, a second transmitting terminal, a first receiving terminal and a second receiving terminal are mounted on a lower horizontal plane of the base. The ultrasonic wind speed sensor further comprises a temperature sensor, a humidity sensor, and an air pressure sensor, which are embedded into the lower horizontal plane of the base and disposed in a circumferential direction formed by the transmitting terminals and the receiving terminals. According to the present invention, measurement data can be corrected due to interference caused by environmental factors and own factors of the sensor, thereby improving the accuracy of the measurement data.



21: 2021/06209. 22: 2021/08/26. 43: 2021/09/03 51: C21C; C22C 71: INSTITUTE OF NEW MATERIALS, GUANGDONG ACADEMY OF SCIENCES 72: LUO, Zhichao, LIU, Tianlong, ZHENG, Kaihong, WANG, Juan, ZHENG, Zhibin, LONG, Jun 33: CN 31: 201911333239.X 32: 2019-12-19 54: CR-NI TYPE AUSTENITIC HEAT-RESISTANT STEEL WITH IN-SITU PRECIPITATED REINFORCING PHASE, AND MANUFACTURING PROCESS AND USE THEREOF 00: -

This application relates to the technical field of metallurgy, and in particular to a Cr-Ni type austenitic heat-resistant steel with an in-situ

precipitated reinforcing phase, and a manufacturing process and use thereof. The Cr-Ni type austenitic heat-resistant steel strengthened with TiC and/or TiB2 particles has a two-phase structure of metal and ceramic phases, which can improve the mechanical properties of the heat-resistant steel. Moreover, due to the "reactive particle effect" brought by TiC and/or TiB2, the high-temperature oxidation resistance of the heat-resistant steel is greatly improved. In the heat-resistant steel, the insitu precipitated reinforcing phase has a volume fraction of 1.2% to 15.9%, which can ensure the uniform dispersive distribution of ceramic particles in a Cr-Ni type austenitic heat-resistant steel matrix, such that the high-temperature oxidation resistance of the Cr-Ni type austenitic heat-resistant steel is greatly improved on the premise of a low Cr content.



- 21: 2021/06221. 22: 2021/08/27. 43: 2021/09/06 51: B32B; E04C
- 71: Hunan City University

72: Chen Qiang, Yu Fang, Xiong Jun, Duan Xianli, Yin Canbin, Wu Bin, Wang Jiejun, Wang Xinzhong 54: THE MANUFACTURING METHOD AND APPLICATION OF CL BAMBOO-WOOD COMPOSITE STRUCTURE MATERIAL 00: -

The invention discloses a manufacturing method of CL bamboo-wood composite structural material and its application, and belongs to the technical field of green building materials. According to the invention, connect the grooves in the length direction of the bamboo strip material, glue the extended or unextended bamboo strips into a two-layer or more cross-layer laminated bamboo integrated board in a way that the fiber direction and the transverse fiber direction are arranged orthogonally; splice wood panels into solid wood slats by finger joint or butt joint, then, glue the extended solid wood slats into a two-layer or more cross-layer into a solid wood slats into a two-layer or more cross-layer building blocks solid wood panels in a way that the horizontal and vertical

stripes are arranged orthogonally; place the crosslayer laminated bamboo integrated board on the outer layer of the structural material, and glue it with the cross-layer building blocks solid wood panels according to the specifications, thus forming CL bamboo-wood composite structural material. The CL bamboo-wood composite structural material of the present invention has the characteristics of excellent strength and dimensional stability, wonderful seismic performance and fire resistance, so that can greatly improve the construction efficiency of the project, thus greatly shortening the construction time, besides, the material is green and environmentally friendly, which is a renewable resource.



- 21: 2021/06222. 22: 2021/08/27. 43: 2021/09/06
- 51: G06F; G06T
- 71: Xidian University

72: Meng Fanjie, Cui Xiaoxuan, Wang Yanlong, Li Runxin, Feng Haonan

54: MEDICAL IMAGE FUSION METHOD BASED ON NSST AND IMPROVED ADAPTIVE PCNN 00: -

The invention discloses a medical image fusion method based on NSST and improved adaptive PCNN, which specifically includes the following steps: S1. Perform NSST transformation on CT images and MRI images to obtain two sets of decomposition coefficient matrices; S2. Use RCDIE fusion rules to perform fusion processing on the two sets of high-frequency components to obtain the high-frequency component fusion coefficients of the fused image; S3. Use PCNN-based fusion rules for fusion processing on the two sets of low-frequency components to obtain the low-frequency component fusion coefficients of the fused image; S4. Perform inverse NSST transformation on the high-frequency

component fusion coefficient and the low-frequency component fusion coefficient to obtain a fused image. The fusion image of the present invention retains clear and detailed information, and the overall visual effect is also greatly improved.



- 21: 2021/06223. 22: 2021/08/27. 43: 2021/09/06 51: A61H
- 71: Weifang Medical University
- 72: Xiaoyong Zhao, Meiyan Sun 54: PUMP FOR PREVENTING CLOGGING AND THROMBOSIS AFTER TUBE SEALING OF INDWELLING NEEDLE AND WORKING METHOD THEREOF

00: -

The invention discloses a pump for preventing clogging and thrombosis after tube sealing of indwelling needle and working method thereof, comprising a one-way valve dosing device, wherein the one-way valve dosing device is connected to a liquid inlet and outlet tube, which is provided with a liquid inlet and outlet port, and the liquid inlet and outlet port is connected to an elastic liquid storage device, which is provided with a disposable plastic outer cover, and the elastic liquid storage device is connected with a liquid medicine filter, wherein the liquid medicine filter is connected to a needle port through a tube; the liquid will automatically flow out from the liquid inlet and outlet tube due to the pressure generated by the contraction function of the elastic liquid storage device, which solves the problem of serious complications such as thrombus, cerebral thrombosis, pulmonary embolism, etc. caused by partial blood flow back to the indwelling needle to stay coagulated, and pressure is required to wash away part of the thrombus blocked by the needle, which is difficult to dissolve in the body; the advantage of the present invention is that it can reduce the pain of repeated puncture, achieve the purpose of protecting blood vessels, preventing phlebitis, and facilitating regular drug administration and resuscitation.



21: 2021/06224. 22: 2021/08/27. 43: 2021/09/06 51: C05G

71: Qingdao Agricultural University

72: Shi Yan, Xu Yunshuo, Cao Wenqin 54: WATER-RETAINING AND SLOW-RELEASE COMPOUND FERTILIZER AND PREPARATION METHOD THEREOF

00: -

The invention discloses a water-retaining and slowrelease compound fertilizer and a preparation method thereof, belonging to the technical field of fertilizer preparation. The preparation method comprises two-step polymerization reaction; the twostep polymerization reaction specifically refers to a first-step polymerization reaction and a second-step polymerization reaction. The first-step polymerization reaction is to form the precursor of polymer waterabsorbent resin (which is not completely reacted to form polymer water-absorbent resin or solution property) by potassium acrylate and acrylamide, and the precursor of polymer water-absorbent resin is fully mixed with fertilizer components to realize the blending of organic and inorganic components; the second-step polymerization reaction is to form polymer groups by adding crosslinking agent and initiator to copolymerize the polymer waterabsorbent resin precursor with inorganic nutrients, and the inorganic nutrients are uniformly wrapped in the organic polymer network to form a compound fertilizer with both water-retaining structure and slow release of nutrients; the method has simple process, saves manpower and material resources, has low cost and is conductive to farmers' acceptance.



21: 2021/06225. 22: 2021/08/27. 43: 2021/09/06 51: A01K

71: Shanghai Ocean University

72: Zhang Lizhen, Wu Di, Ye Jiemin, Hu Qingsong 54: PRECISE FEEDING CONTROL SYSTEM AND METHOD BASED ON SHRIMP POND FEEDING BOAT

00: -

The invention discloses a precise feeding control system based on a shrimp pond feeding boat, which comprises teleoperation unit, measurement unit, master control unit, adjustment unit and communication unit; the teleoperation unit is used to obtain the initial parameters of the feeding boat and displaying the speed of the feeding boat and the opening degree of the feeding port of the feeding mechanism; the measurement unit is used for measuring the speed of the feeding boat and the opening degree of the feeding port of the feeding mechanism; the master control unit is used to obtain the real-time feeding rate according to the initial parameters and the speed of the feeding boat, and outputting an adjustment instruction according to the real-time feeding rate; the adjustment unit is used for correcting the steering gear angle and the opening degree of the feeding port of the feeding mechanism according to the adjusting instruction; the communication unit is used for transmitting the initial parameters, the speed of the feeding boat and the opening degree of the feeding port of the feeding

mechanism. According to the invention, the feeding rate can be controlled to make corresponding adjustments along with the speed change of the feeding boat in the moving process, so that the feeding boat can uniformly feed the bait with one feeding amount on the esophagus, thereby reducing the waste of feed.



21: 2021/06226. 22: 2021/08/27. 43: 2021/09/06

51: A61M

71: Affiliated Hospital of YouJiang Medical University for Nationalities

72: Wang Jianyuan, Huang Cuimai, Huang Lianxin, Huang Xiaozhen, Chen Qiuping 54: URINARY CATHETER 00: -

The invention relates to the field of medical equipment technologies, and discloses a urinary catheter, which comprises a catheter body, an airbag and a drainage hole. The catheter body is provided with a drainage channel and a filling channel. An airbag communicating with the filling channel is fixed on the side wall of the head end of the urinary catheter body, and a drainage hole communicating with the drainage channel is opened. The lowest point of the drainage hole is not higher than the lowest point of the connection part between the airbag and the catheter body, and the number of drainage holes is at least two. And the drainage

holes are distributed above and below the airbag. The urinary catheter of the invention is beneficial to draw out the residual urine in the bladder and reduces the probability of urinary tract infection.



- 21: 2021/06227. 22: 2021/08/27. 43: 2021/09/06 51: G06F; G06Q
- 71: Qilu University of Technology

72: Zhang Li, Jing Ming, Liu Yunjing, Wang Xiaoxiao 54: METHOD AND DEVICE FOR ANALYZING DATA OF TIME-SERIES LITERATURE BASED ON DYNAMIC NETWORK ANALYSIS 00: -

The invention discloses a method and a device for analyzing data of time-series literature based on dynamic network analysis, which belongs to the technical field of literature data analysis. The technical problem to be solved by the invention is how to avoid overlapping of visualization results of nodes and attributes in node linking, so as to make improvement on the representation methods of network data such as node linking and adjacency matrix, and to solve the problem of displaying timeseries information. The technical scheme adopted is as follow: 1 a method for analyzing data of timeseries literature based on dynamic network analysis, which comprises following steps: S1: extracting timeseries feature data; S2: clustering analysis; S3: visual layout; S4: time-series feature visualization. 2 A device for analyzing data of time-series literature based on dynamic network analysis, which

comprises a time-series feature data extraction unit, a clustering analysis unit, a visual layout unit and a time-series feature visualization unit.



A device and method for preparing a mixed iceglazing solution, relating to the field of preservation

of aquatic products. The device comprises a frame portion, a mother liquor preparation portion, an iceglazing solution preparation portion, an ice-glazing solution post-processing portion, and a control system. The frame portion comprises a container, a base, and a thermal insulation partition plate. The mother liquor preparation portion comprises a water inlet main pipe, a water storage tank, a first mother liquor tank, a second mother liquor tank, a third mother liquor tank, and a fourth mother liquor tank. The ice-glazing solution preparation portion comprises a liquid homogenizer tank, a liquid homogenizer tank inlet pipe, a waste liquid tank inlet pipe, and a liquid homogenizer tank stirring blade. The ice-glazing solution post-processing portion comprises a liquid receiving tank and a waste liquid tank.



21: 2021/06462. 22: 2021/09/03. 43: 2021/09/17 51: A47L 71: TING, Ming-che 72: TING, Ming-che 33: CN 31: 201910167630.0 32: 2019-03-06 54: MOP HEAD

54: МОР П 00: -

The present invention provides a mop head comprising: a mop head frame formed with a

plurality of concave connecting portion, a narrow connecting portion of each concave connecting portion includes a first set of protruding elements, a first hollow portion, a second set of protruding elements and a second hollow portion; and a cleaning member. The first set of protruding elements and second set of protruding elements of the narrow connecting portion clamp the cleaning member. The first hollow portion and the second hollow portion provide space that allows the cleaning member be firmly punched in concave connecting portion without damaging the narrow connecting portion by a punch.



- 21: 2021/06498. 22: 2021/09/06. 43: 2021/09/17 51: G06Q
- 71: Shanghai Maritime University

72: Guangnian Xiao, Qiongwen Lu, Ruinan Wang, Qing'an Cui, Bangping Gu, Yu Xiao, Zihao Wang, Chuanxu Wang, Qunzhen Qu

33: CN 31: CN202010799933.7 32: 2020-08-11 54: FORECASTING SYSTEM, METHOD AND DEVICE FOR PICKUP AND RETURN DEMAND OF PUBLIC BICYCLE

00: -

The invention belongs to the field of public transportation, and particularly refers to a forecasting system, method, and device for the pickup and return demand of public bicycles. The present invention includes three types of units: data cleaning and conversion unit, used to remove incomplete, noisy, and inconsistent sample data, combined with site information to convert the cleaned data into a two-dimensional matrix; spatio-temporal graph convolutional layer unit, modeling the cleaned data, and seeking a set of optimal model parameters after training operation; fully connected unit, used to

reduce the dimensionality of the output result of the spatio-temporal graph convolutional layer unit, and output the predicted value of the demand for each station of the public bicycles. The invention has the advantages of few parameters, high efficiency and prediction accuracy.



21: 2021/06501. 22: 2021/09/06. 43: 2021/09/17 51: A61K

71: Chen Baoliang

72: Chen Baoliang

54: A FORMULA FOR TREATING CARDIOVASCULAR AND CEREBROVASCULAR DISEASES AND PREPARATION METHOD THEREOF

00: -

The present invention discloses a formula for treating cardiovascular and cerebrovascular diseases, including the following ingredients in parts by weight: 8-20 parts of ginseng, 15-60 parts of astragalus, 8-15 parts of atractylodes, 8-15 parts of poria, 15-30 parts of cistanche, 8-20 parts of epimedium, 8-15 parts of rehmannia, 10-30 parts of tortoises shell, 8-25 parts of turtle shell, 8-30 parts of concha haliotidis, 8-20 parts of prunella vulgaris, 1-5 parts of resina draconis, 6-15 parts of rhizoma corydalis, 3-10 parts of olibanum, 3-10 parts of myrrha, 8-20 parts of chuanxiong rhizome, 8-15 parts of panax notoginseng, 2-8 parts of scorpion, 8-15 parts of lumbricus, 2-5 parts of centipede, 8-20 parts of bombyx batryticatus, 8-25 parts of seaweed, 6-20 parts of fructus trichosanthis, 10-30 parts of rhizoma cyperi, 5-10 parts of radix aucklandiae, 8-25 parts of uncaria, 8-15 parts of gastrodia elata, 8-15 parts of angelica sinensis, 8-15 parts of taxillus chinensis, 8-30 parts of millettia dielsiana, the invention has strong functionality and can be widely

used in the technical field of traditional Chinese medicine preparation.

21: 2021/06507. 22: 2021/09/06. 43: 2021/09/17 51: A01C

71: Qingdao Agricultural University 72: ZENG, Lusheng, DING, Xiaodong, ZENG, Chenxiao

54: FERTILIZATION METHOD OF RICE AND WHEAT CROP ROTATION SYSTEM

The invention discloses a fertilization method of rice and wheat crop rotation system. According to the adopted technical solution in the present invention, the fertilization amounts of N, P2O5 and K2O in a T2 paddy field are 210kg/hm2, 52.5 kg/hm2 and 94.5kg/hm2 respectively; and the fertilization amounts of N and P2O5 in a T4 paddy field are 255kg/hm2 and 127.5kg/hm2 respectively. The fertilization method has advantages that comprehensive benefits after the fertilization treatment are the highest, various indexes of crops are good, and the method is worthy of popularization.



21: 2021/06540. 22: 2021/09/07. 43: 2021/09/14 51: G01N

71: Shandong Jianzhu University, Jinan Rail Transit Group Co., Ltd., Shandong University

72: Song Shuguang, Chen Sibin, Sun Huibin, Sun Shangqu, Liu Fengzhou, Xie Can, Wang Jiancai, Men Yanqing, Huang Yongliang, Miao Xin, Dong Wei, Chen Diyang, Zhang Yanhuan, Li Hu, Wang Jing

54: DEVICE AND METHOD FOR DETECTING MICRO-DAMAGE INSIDE SHIELD TUNNEL SEGMENT 00: -

The invention discloses a device and a method for detecting micro-damage inside shield tunnel

segment. The device comprises a steerable visitation device, a telescopic connecting framework and a detachable image intelligent collection operation terminal. The steerable visitation device comprises a universal serpentine tube and a visitation device which are arranged at that front end of a telescopic connecting framework. The viewfinder comprises an infrared lens, a signal sensing component, a light source component and a lens protective cover, and is connected with a universal serpentine tube through an embedded connector. The detection device for micro-damage in the shield tunnel segment provided by the invention can conveniently and quickly solve the problem of detecting the internal structure of the shield tunnel segment through small-diameter drilling without damaging the internal structure performance of the structure; it can realize visual observation to obtain correct information of different depths in concrete and evaluate it on the spot, and also can realize allround visual detection, only a few people need to operate on site, saving labor cost; as well as it can realize real-time recording of tunnel segment cracks, carbonization and other diseases, facilitate discussion and analysis after inspection, and propose solutions to avoid major accidents.



21: 2021/06541. 22: 2021/09/07. 43: 2021/09/14 51: B01J

71: Zhejiang University of Science and Technology, Zhejiang University

72: Xu Yinchao, Lin Mingzeng, Zhang Xuejin, Sha Lizheng, Guo Daliang

54: PREPARATION METHOD OF CELLULOSE SPONGE FOR COPPER ION ADSORPTION 00: -

The invention discloses a preparation method of cellulose sponge for copper ion adsorption, which comprises the following steps: putting 0.1-1 part of cellulose sponge into 8-12 parts of quinizarin acetone solution with the concentration of 200-1000 ppm, mixing and stirring for 30-60 min, drying at 50-60 degree Celsius for 30-60 min, adding the dried cellulose sponge into deionized water, stirring for 10-

20 min, and finally air drying to obtain quinizarin modified cellulose sponge. The invention has excellent copper ion adsorption capacity, can be recycled or naturally degraded, and does not cause environmental pollution; in addition, the invention is simple in process and cheap to operate.



21: 2021/06542. 22: 2021/09/07. 43: 2021/09/14 51: B01L; G01N

71: Zhejiang University of Science and Technology, Zhejiang University

72: Xu Yinchao, Li Biha, Zhang Xuejin, Sha Lizheng, Zhao Huifang

54: HIGH-PRECISION ELECTRIFIED CONSTANT-TEMPERATURE TEST PAPER AND PREPARATION METHOD THEREOF

00: -

The invention discloses a high-precision electrified constant-temperature test paper, which comprises qualitative filter paper and coating and ink dispersed on the qualitative filter paper, wherein the component ratio of the coating and the ink is 1: 1-5; the coating is cellulose nanofiber, and the ink is consisted of the following components: 1-5 parts of graphene oxide (GO), 1 part of cellulose nanocrystal (CNC) and 10-50 parts of modified carbon nanotubes (CNTs). The invention also discloses a preparation method of the high-precision electrified constant-temperature test paper, which comprises the following steps: preparing materials; preparing cellulose nanofibers (ToCN); completing coating and air drying; modifying the carbon nanotubes to obtain
a modified carbon nanotube solution; adding the mixed solution of graphene oxide and cellulose nanocrystal into the modified carbon nanotube solution to obtain ink; flattening the filter paper, and then printing ink on the filter paper to obtain test paper; cutting the test paper to obtain the electrified constant temperature test paper. The invention can prepare coating and ink and disperse them on qualitative filter paper to form high-precision electrified constant-temperature test paper.



21: 2021/06543. 22: 2021/09/07. 43: 2021/09/14 51: C08J; B82Y

71: Zhejiang University of Science and Technology 72: Xu Yinchao, Sun Yicheng, Jin Guangfan, Kou Shunli, Zhu Chunfeng

54: PREPARATION METHOD OF CELLULOSE SPONGE REINFORCED BY NANO-CELLULOSE 00: -

The present invention discloses a preparation method of cellulose sponge reinforced by nanocellulose, which is carried out according to the following steps: a. Mercerization: take 0.5-2 parts by mass of absolutely dry cotton lint and mix with 3-8 parts of NaOH solution with a concentration of 17.5-25%, and react at room temperature for 3-6 hours to obtain sodium cellulose; b. Xanthation: take 0.8-1.5 parts of CS2 and react with sodium cellulose for 1.5-4 h at room temperature to obtain cellulose xanthate; c. Dissolving and aging: add 4-6 parts of water to the cellulose xanthate and mix for 48-72 hours to obtain a cellulose xanthate solution; d. Take 1-5 parts of 0.2-1% nano-cellulose solution and cellulose xanthate solution and rotate and mix for 0.5-2 h to obtain a mixed solution; e. Sponge molding: uniformly mixing the mixed solution of nano-cellulose solution and cellulose xanthate obtained in step d

with sodium phosphate in a mass ratio of 1:1-2, and then pour it into the mold and put it into the oven, react at 65-90 degree Celsius for 6-24 hours, and then rinse thoroughly to obtain a cellulose sponge. The invention can improve the strength performance of the cellulose sponge, and it is convenient to process and easy to produce.



21: 2021/06544. 22: 2021/09/07. 43: 2021/09/14 51: G01N

71: Anhui Science and Technology University 72: Guo Chun, Hu Ruizhang, Wei Baoli, Chen Feng 54: PRODUCT QUALITY TESTER FOR ISOTHERMAL QUENCHING FURNACE OF BINDER CLIP

00: -

The invention provides a product quality tester for isothermal quenching furnace of a binder clip, which comprises a base, wherein the upper end of the base is fixedly connected with a test chamber; a telescopic cylinder is fixedly installed on one side of the inner top end of the test chamber; a detection plate is fixedly connected to the end of a telescopic shaft of the telescopic cylinder; an infrared counting sensor is arranged inside the test chamber; a pressing mechanism is fixedly connected to the front and rear ends of the top of the base; a test bench is fixedly connected with the top of the base; a pressure measuring block is fixedly connected to one side of the top of the base; a pressure sensor is embedded in the surface of the pressure measuring block; a conveying pipe is fixedly inserted into the

other side of the inner top end of the test chamber, and an air outlet is arranged on the surface of the conveying pipe. The device has the advantages of simple and reasonable structural design, convenient operation and adjustment, excellent detection effect, safety and stability, extensive application range, and is beneficial to promotion and popularization.



21: 2021/06591. 22: 2021/09/08. 43: 2021/09/14 51: C21D

71: Shanghai Maritime University

72: Ping Wang, Bangping Gu, Yu Ji, Weichen Shi, Guangnian Xiao, Zhensheng Yang, Jintao Lai, Zhipeng Huo

33: CN 31: CN202110941329.8 32: 2021-08-17 54: VIBRATORY STRESS RELIEF CLAMPING DEVICE

00: -

The present invention discloses a vibratory stress relief clamping device, comprising four clamping mechanisms, four pressing mechanisms, two cross beams, two fixing frames and four cross shaped longitudinal moving blocks, each fixing frame is respectively connected with two clamping mechanisms, each pressing mechanism is respectively connected with a cross shaped longitudinal moving block, and each cross beam is respectively connected with two cross shaped longitudinal moving blocks. The invention has the advantage of improving the clamping stability of a metal structure during the vibratory stress relief process, so as to improve the effect of the vibratory stress relief on eliminating the residual stress of the metal structure.



21: 2021/06592. 22: 2021/09/08. 43: 2021/09/14 51: A63B

71: Zhengzhou University of Aeronautics
72: Qi Wenwen, Wang Yanyuan, Jia Jun, Wang Chenyu, Xing Jinshan, Wang Yaming, You Yuandeng, Zhao Yingchao, Yuan Shuai
33: CN 31: 202110964524.2 32: 2021-08-18
54: THE ACTION SIMULATOR FOR NATIONAL TRADITIONAL MARTIAL ARTS SKILL ATTACKS
TRAINING

00: -

The invention discloses an action simulator for national traditional martial arts skill attacks training, including: column, base, first motor, mechanical arms, crank shafts, first pressure plate, etc., the first pressure plate is located under the athlete's left foot and the second pressure plate is located under the athlete's right foot, when the athlete kicks the attacking leg and lifts the foot, the pressure on the corresponding pressure plate disappears, and controller detects that the pressure on the corresponding pressure plate is zero, the controller transmits it to the first motor or the second motor through first relay module, the motor is activated and drives each mechanical arm to move, so as to simulate the action of using the arm to block and catch the attacking leg when the opponent observes the kick in actual combat, the athlete needs to finish a complete kick and retract before the mechanical arm hooks their foot or leg, in order to practice their legs speed.



21: 2021/06593. 22: 2021/09/08. 43: 2021/09/14 51: F17D

71: Hebei University of Engineering 72: Lixin HE, Jialiang CHEN, Zheng ZHANG, Zhe QIN, Yanping LIU, Zhihui LI

54: ENERGY-SAVING SELF-CIRCULATING DOMESTIC WASTEWATER PURIFICATION AND LIGHTING SYSTEM 00: -

The present disclosure relates to the technical field of wastewater treatment, and specifically, to an energy-saving hybrid domestic lighting, wastewater purification, water saving and circulating system. The system includes a main control system, as well as an energy-saving hybrid power generation control system, a wastewater purification and filtering watersaving system, an electrolytic hydrogen production system, a fuel cell system, a hot-water supply system, a battery management system (BMS), and a lighting system that are connected to the main control system. The system can make full use of wind energy and solar energy in a natural environment around a house, and generate power by using a wind driven generator and a solar photovoltaic panel. The generated power can provide electric energy for a circuit of a domestic lighting system and a water purification apparatus in wastewater purification and treatment, and excess electric energy can be stored.



21: 2021/06596. 22: 2021/09/08. 43: 2021/09/14 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: CN202110777024.8 32: 2021-07-09 54: A METHOD FOR IDENTIFYING TRAVEL MODE BASED ON GPS TRAJECTORY DATA AND BAYESIAN NETWORK 00: -

The invention provides a method for identifying travel mode based on GPS (Global Positioning System) trajectory data and Bayesian network. This method takes individual travelers as the research object and takes the GPS trajectory information collected by smartphones as data source. Firstly, the GPS trajectory data of travelers are preprocessed. Then, a K2 algorithm is used to learn the structure of Bayesian network, and the maximum likelihood estimation method is used to learn the parameters of Bayesian network. Then, based on the established Bayesian network model, travel modes are identified. The application of the identification method of the invention can realize the automatic identification of five travel modes of walking, bicycle, e-bicycle, bus, and car based on GPS trajectory data with high identification accuracy, and it can provide effective monitoring means and data reference for travel planning, travel demand prediction, and management decision-making.



21: 2021/06642. 22: 2021/09/09. 43: 2021/09/14 51: B23D

71: Xuzhou College of Industrial Technology 72: Wang Zaixue, Xu Yunhui, Zhang Zhaohong, Feng Li, Zang Yanan, Yang Chen

54: POLYMER SAMPLE PREPARATION SYSTEM AND METHOD

00: -

The invention belongs to the technical field of polymer material testing, and discloses a polymer sample preparation system and method. The system comprises a base which comprises a top plate and support legs arranged under the top plate, wherein one end of the top plate is a head end and the other end is a tail end along the length direction of the top plate. Two ends of the top plate are provided with a pair of driving rollers, and an annular conveyor belt matched with the driving rollers is also arranged on the top plate, and clamping devices are arranged on the conveyor belt. A thinning device, a flaw detection device, a blanking device, a picking device and a waste recovery device are sequentially arranged on the top plate from the head end to the tail end. The system also comprises a control module for controlling the linkage of the clamping device, the thinning device, the flaw detection device, the blanking device, the picking device and the waste recovery device. The invention solves the problems of low automation degree, difficult detection of internal defects of the spline, unchangeable storage of cutting knives and serious waste of manpower and resources in the prior art.



21: 2021/06643. 22: 2021/09/09. 43: 2021/09/14 51: G06Q

71: TWenzhou Business College

72: Zhang Siyang, XingJun, KuangFangJun, HaoHuiJun

54: FINANCIAL TECHNOLOGY RISKS MEASUREMENT SYSTEM BASED ON MULTI-SOURCE BIG DATA FUSION 00: -

The invention discloses a financial technology risks measurement system based on multi-source big data fusion, which comprises an acquisition unit, a search unit, a comparison unit, a modeling unit and a measurement unit; the acquisition unit is used for collecting and storing data and data sources of the financial industry; the search unit is used for searching for the financial technology risks of stored data and data sources; the comparison unit is used to obtain customers' consumption habits, payment preferences and risks characteristics according to the search results of financial technology risks; the modeling unit is used for building a multi-source fusion database of financial technology risks and a comprehensive dynamic measurement model of financial technology risks; the measurement unit is used to obtain the financial technology risks measurement result. According to the invention, a multi-source big data fusion database can be constructed according to different application requirements and data structures, fusion analysis and risks measurement are carried out on data from multiple sources, and the problems of data missing, data abnormality, data inconsistency and the like existing in the existing multi-source big data are solved.



21: 2021/06644. 22: 2021/09/09. 43: 2021/09/14 51: G01N

71: Shandong University of Science and Technology 72: Zhao Zenghui, Liu Hao, Lyu Xianzhou, Wang Weiming, Li Qiuyan, Wang Yonglin

54: CLAMP AND METHOD FOR MEASURING THE TENSILE STRENGTH OF ROCK BY RECTANGULAR SPECIMEN SPLITTING METHOD 00: -

The invention discloses a clamp and a test method for measuring the tensile strength of rock by a rectangular specimen splitting method. Clamp comprises a pedestal and a pressing block, wherein the inner side of the support is provided with a clamping alignment circular plate controlled by screw screwing; the pressing block and the support are provided with symmetrical cushion strips on the same axis; and the structure of the specimen clamp is left-right symmetrical. The guide hole of the pressing block is aligned with the guide column for installation. The method for measuring the tensile strength of rectangular specimens is as follows: S1, according to the specific situation of Brazilian splitting method, obtaining the mapping function from inside (outside) of unit circle to inside of complex boundary shape through trigonometric interpolation. S2, analyzing the relationship between any point in the rectangle on Z plane and the corresponding point in the unit circle on Greek Xi plane. S3, calculating the rectangular plate by Cauchy integral method under a pair of concentrated forces, and then obtaining the tensile strength function of rock specimen. S4, obtaining the failure load of the test piece from the indoor test, and substituting it into the tensile strength function in S3.

At this time, according to the approximate mapping function from inside (outside) unit circle to 50\X 100 mm rectangle through the trigonometric interpolation method, it can be known that the average value of Greek Sigma within 15<y<38 or -38<y<-15 is the tensile strength of rock specimen. The clamp is simple and safe to operate, the clamping and aligning device is simple to process, and the rectangular specimen is easy to clamp and align compared with the circular specimen; in addition, the calculation method is easy, the operation is simple, and the principle is clear, which is enough to meet the precision required by the project.



- 21: 2021/06645. 22: 2021/09/09. 43: 2021/09/14 51: B22F; B33Y
- 71: Lishui University

72: SU, Yongjun, XU, Peng, ZHANG, Na, LIN, Yunfeng, YE, Xiaoping 54: INDIRECT EXTRUSION TYPE 3D PRINTING METHOD OF TITANIUM ALLOYS

00: -

An indirect extrusion type 3D printing method of titanium alloys: firstly mixing titanium or titanium alloy powder, or other alloy powders added and a binder, and pelleting, to obtain extrusion feedstocks for indirect printing; then connecting an injection nozzle of a conventional plastic injection molding machine or an extruder to a print head input end of a conventional 3D-filament printer using a heated hose, or directly mounting a lightweight extruder on a print head component, conveying the feedstocks by the plastic injection molding machine to the printing end of the 3D printer through a heated hose or directly; then indirectly printing the titanium alloy

green parts using a conventional plastic 3D printing technology, and then performing debinding of the green parts containing the binder, to remove the binder system in the green parts; finally performing sintering to produce the finished titanium alloy parts using a powder metallurgy sintering method.



21: 2021/06649. 22: 2021/09/09. 43: 2021/09/14 51: B01J

71: Guilin University of Technology

72: Hu Changzheng, Sun Chaozhong, Ji Rui, Guo Xiaoying, Fang Liang

54: PYROELECTRIC CATALYST FOR TREATING DYE EFFLUENT UNDER ALTERNATING COLD AND HOT AT AMBIENT TEMPERATURE, PREPARATION METHOD AND APPLICATION THEREOF

00: -

The invention discloses a pyroelectric catalyst for treating dye effluent under alternating cold and hot at ambient temperature, preparation method and application thereof. According to the nominal chemical formula Ba4Na2Nb4Ta6O30(BNNT), preparing high-purity barium carbonate, sodium carbonate, niobium pentoxide and tantalum pentoxide according to the stoichiometric ratio, next primary ball milling, drying, column pressing, presintering, secondary ball milling and the like, then performing the high-temperature solid state reaction, milling the final product by high energy ball to obtain BNNT submicron powder. The degradation rate of dye rhodamine B is over 99 percent after 30 times of cold and hot cycling at 25-50 degree Celsius. The above-mentioned method not only has low

manufacturing cost and simple working process, but also is suitable for large-scale industrial production, and has excellent degradation effect on dye rhodamine B, as well as is of great significance in treating dye effluent degradation.



21: 2021/06659. 22: 2021/09/09. 43: 2021/09/14 51: G01V

71: INSTITUTE OF ROCK AND SOIL MECHANICS, CHINESE ACADEMY OF SCIENCES, GUANGXI UNIVERSITY

72: FENG, Guangliang, SU, Guoshao, NIU, Wenjing, JIANG, Quan, MA, Qi

54: METHOD FOR DETERMINING MICROSEISMIC PARAMETER THRESHOLD OF ROCKBURST INTENSITY WARNING 00: -

00. -

The present invention relates to a method for determining microseismic parameter threshold of rockburst intensity warning. It includes the following steps: a) Performing range normalization transformation on microseismic parameters of multiple rockburst cases respectively with the same intensity; b) Performing cluster analysis on the microseismic parameters after range normalization transformation to remove the rockburst cases with discrete microseismic parameters after range normalization transformation; c) Calculating the average value of microseismic parameters before range normalization transformation of the remaining rockburst cases, and the average value is used as the microseismic parameter threshold corresponding to the rockburst intensity. Through the range normalization transformation of microseismic parameters, and then cluster analysis, so as to eliminate the rockburst cases with discrete

microseismic parameters, screen out the representative rockburst cases with concentrated microseismic parameters, and ensure the effectiveness of rockburst cases in the process of obtaining the threshold value of microseismic parameters. It solves the technical problem that the microseismic parameter threshold is difficult to be accurately determined due to the large difference of microseismic parameter values in rockburst cases of the same intensity.



21: 2021/06747. 22: 2021/09/13. 43: 2021/09/17 51: C09K

71: Jiangxi Puruifeng Ecological Technology Co., Ltd.

72: LIU, Yun, WEN, Yangping, HUANG, Chunlun 54: SOIL CONDITIONER FOR TREATING HEAVY METAL POLLUTIONS IN FARMLANDS AND PREPARATION METHOD THEREOF 00: -

The present invention is applicable to the technical field of soil conditioners and provides a soil conditioner for treating heavy metal pollutions in farmlands and a preparation method thereof. The soil conditioner for treating heavy metal pollutions in farmlands, comprises following raw material components: clay minerals, calcium alginate, calcium hydrogen phosphate, animal feces, humic acid, anabaena spiroides, pH regulator, and microbial inoculants; the microbial inoculants include bacillus licheniformis and thiobacillus ferrooxidans, which can effectively adsorb and fix heavy metals in soil, thereby fundamentally reducing the heavy metal content in crops and reducing the harm of heavy metals to human body; and the anabaena spiroides can absorb heavy metals, at the same time purify the nitrogen in the air, increase soil fertility, and thus benefit the growth of crops. Therefore, the present invention solves the problem that the existing soil conditioner has a minor treatment effect on heavy metals and cannot promote the growth of crops.

21: 2021/06748. 22: 2021/09/13. 43: 2021/09/17

51: A61K

71: Li Xiaomei

72: Li Benfang, Li Xiaomei

33: CN 31: 202110980358. 5 32: 2021-08-25 54: MEDICINAL POWDER FOR TREATING BURNS AND SCALDS AND PREPARATION METHOD THEREOF 00: -

The invention discloses a medicinal powder for treating burns and scalds, comprising the following weight of raw materials: 25~40g of Hymenodictyon flaccidum, 15~35g of leaf of Yunnan Machilus, and 45~75g of Chinese Brake Herb. The preparation method of the medicinal powder for treating burns and scalds is to put the dried Hymenodictyon flaccidum, leaf of Yunnan Machilus and Chinese Brake Herb into an iron pan and fry them slowly at high temperature until they are scorched black, then remove them and use a stone pot to make a fine powder and bottle it for use. The invention has low cost, simple and convenient processing, remarkable curative effect, no scars and no color difference on the repaired skin; applying directly on the wound each time it is used, immediately stopping the pain and bleeding, anti-infection is remarkable, no need to clean and disinfect the damaged skin during medication, no infection will occur, and the wound will close quickly.

21: 2021/06749. 22: 2021/09/13. 43: 2021/09/17 51: A23G

71: Qinghai Academy of Agriculture and Forestry Sciences, Qinghai Huashi Highland Barley Biological Technology Development Co., Ltd. 72: ZHANG, Jie, DANG, Bin, YANG, Xijuan, ZHANG, Wengang, DU, Yan, HAO, Jing 54: METHOD FOR PREPARING BLACK HIGHLAND BARLEY NATTO PRESSED CANDY FOR REGULATING GLUCOSE AND LIPID METABOLISM 00: -

The present disclosure relates to a method for preparing a black highland barley natto pressed candy for regulating glucose and lipid metabolism, where the pressed candy includes the following components by mass percentage: a highland barley natto powder 18-24%, a whole milk powder 30-40%, a resistant dextrin 6-12%, xylitol 30-38%, citric acid 0.08-0.15%, magnesium stearate 0.80-1.50 %, konjac glucomannan 1-5%, and puerarin 5-10%. In the present disclosure, a highland barley natto sample has a partial improvement on liver tissue lesions in mice.



21: 2021/06774. 22: 2021/09/13. 43: 2021/09/17 51: B62H; B62M 71: BEN SHABAT, Yaakov Oren 72: BEN SHABAT, Yaakov Oren 33: IL 31: 265418 32: 2019-03-17 54: SYSTEMS AND METHODS FOR REMOVABLE BATTERY LOCKING

00: -Systems and methods for a removable battery locking mechanism, comprising; an adjustable rail 100 comprising a bolt 102 connecting a lower segment 103 and an upper segment 104, wherein said adjustable rail allow a user to adjust the rail's length to snuggly accommodate a battery 101 and fit in said battery's rail recess; said rail having opening 105, 106 in its lower and upper segments to allow it to be removably connected to a mobility device using connecting means which are hidden while said battery is connected to said mobility device; said upper and lower segments having protruding parts 108, 109 in the side opposite to said battery adapted to receive said bolt extrude sufficient distance hit said mobility device's frame; said rail's upper

segment having a recess 110 adapted to receive said battery 's locking pin and reinforced external part adapted to cover said pin; said rail's upper segment having an adjustable screw 111 located in the upper part of said upper segment protruding to the battery side allowing a user to adjust said screw to the touch said battery while inserted.



HYPOTHECATIONS

No records available

JUDGMENTS

No records available

OFFICE PRACTISE NOTICES

No records available



3. DESIGNS

DESIGNS

APPLICATIONS FOR REGISTRATION OF DESIGNS IN TERMS OF ACT No. 195 OF 1993

The particulars appear in the following sequence: Copies of the application and representations cannot be supplied until application is registered and advertised. In all correspondence reference should be made to the number of the application. Application number, full name of applicant, class, articles to which design is to be applied and priority date (if any)

- APPLIED ON 2021/08/23 -

F2021/00983 - Roche Kenny Class 9. CARTON

A2021/00985 - ISMAY, Brent Ronald Class 21. SET OF CONSTRUCTION TOYS

F2021/00984 - Roche Kenny Class 9. CARTON

- APPLIED ON 2021/08/24 -

F2021/00986 - EMERGENT PRODUCT DEVELOPMENT GAITHERSBURG INC. Class 24. AUTOINJECTOR

A2021/00987 - DART INDUSTRIES INC. Class 7. TUMBLER

- APPLIED ON 2021/08/25 -

F2021/01001 - I-CAT INTERNATIONAL CONSULTING AND TRADING (PTY) LTD Class 23. A VENT VALVE

A2021/00996 - THE ABSOLUT COMPANY AKTIEBOLAG Class 09. BOTTLE

A2021/01002 - CAPBRAN HOLDINGS, LLC Class 31. FOOD PROCESSOR

A2021/00995 - THE ABSOLUT COMPANY AKTIEBOLAG Class 09. BOTTLE

A2021/00990 - THE ABSOLUT COMPANY AKTIEBOLAG Class 09. BOTTLE

A2021/00999 - THE ABSOLUT COMPANY AKTIEBOLAG Class 09. BOTTLE

A2021/00997 - THE ABSOLUT COMPANY AKTIEBOLAG Class 09. BOTTLE

A2021/00991 - THE ABSOLUT COMPANY AKTIEBOLAG Class 09. BOTTLE

A2021/00993 - THE ABSOLUT COMPANY AKTIEBOLAG Class 09. BOTTLE

A2021/00994 - THE ABSOLUT COMPANY AKTIEBOLAG Class 09. BOTTLE

A2021/00989 - THE ABSOLUT COMPANY AKTIEBOLAG Class 09. BOTTLE

A2021/00988 - THE ABSOLUT COMPANY AKTIEBOLAG Class 09. BOTTLE

A2021/00992 - THE ABSOLUT COMPANY AKTIEBOLAG Class 09. BOTTLE

A2021/01000 - THE ABSOLUT COMPANY AKTIEBOLAG Class 09. BOTTLE

A2021/00998 - THE ABSOLUT COMPANY AKTIEBOLAG Class 09. BOTTLE - APPLIED ON 2021/08/27 -A2021/01003 - PHILIP MORRIS PRODUCTS S.A. Class 32. GRAPHIC SYMBOL F2021/01012 - MICHAEL WILLIAM WHITBREAD Class 09. LINK-PLANTING DEVICE - APPLIED ON 2021/08/30 -A2021/01008 - LVMH Swiss Manufactures SA Class 10. CASES FOR WATCHES A2021/01006 - Alpargatas S.A. Class 2. FOOTWEAR A2021/01005 - Alpargatas S.A. Class 2. FOOTWEAR F2021/01009 - Nico Makkink Class 08. HOOK A2021/01007 - FN HERSTAL SA Class 22. MACHINE GUNS F2021/01004 - Neill Human Class 13. BEVERAGE CAN METAL-AIR FUEL-CELL F2021/01011 - SHAI, Sechaba Class 06. PRONE POSITIONING ASSISTANCE DEVICES A2021/01010 - TOYOTA JIDOSHA KABUSHIKI KAISHA Class 12. AUTOMOBILE - APPLIED ON 2021/08/31 -A2021/01013 - PLASTIC INNOVATIONS (PTY) LTD Class 9. A BOTTLE F2021/01014 - DIAGEO IRELAND Class 9. DISPENSING CLOSURE A2021/01015 - JJ Govender Class 13. RENEWABLE ENERGY VERTICAL HYBRID PLANT & AMP; SOLAR POWERED MICROGRID TOWERS - APPLIED ON 2021/09/01 -F2021/01017 - MINOVA AFRICA (PTY) LTD. Class 8. ROCK BOLT SEGMENT A2021/01016 - FEAD Food & amp; Beverages (Pty) Ltd Class 09. BOTTLE - APPLIED ON 2021/09/02 -A2021/01019 - FERRARI S.P.A. Class 12. CAR A2021/01018 - Sifiso Vusumuzi Thwala Class 02, MADALA A2021/01020 - FERRARI S.P.A. Class 21. TOY CAR - APPLIED ON 2021/09/03 -F2021/01025 - PATTERSON, ROY Class 13. A BODY OF A JUNCTION BOX F2021/01021 - Scott Thomas Elder Class 26. PIVOT HINGE BRACKET

A2021/01027 - Raynauld D Russon Class 20. GOT MY JAB A2021/01022 - GOLDENSUNDA TECHNOLOGY CO., LTD Class 24. HAND-HELD ULTRAVIOLET STERILIZATION DEVICE A2021/01023 - Clearvue Technologies Ltd Class 13. PANELS WITH SOLAR CELL BORDERS A2021/01024 - Clearvue Technologies Ltd Class 13. PANELS WITH SOLAR CELL BORDERS F2021/01026 - ROY PATTERSON Class 13. A CONNECTOR FOR A JUNCTION BOX - APPLIED ON 2021/09/06 -F2021/01031 - VAN WYK, Jacob Jacobus Class 07. A DEVICE FOR STOKING A FIRE A2021/01035 - PHILIP MORRIS PRODUCTS S.A. Class 9. PACKAGING BOX A2021/01032 - PHILIP MORRIS PRODUCTS S.A. Class 9. PACKAGING BOX F2021/01028 - GIDEON JOHANNES HITCHCOCK, GIDEON JOHANNES HITCHCOCK Class 07. BRAAI **APPARATUS** A2021/01029 - RI INVESTMENTS (PTY) LTD Class 9. BOTTLE CARRIER A2021/01036 - PHILIP MORRIS PRODUCTS S.A. Class 9. PACKAGING BOX A2021/01071 - Daniel Leshaba Class 05. FOOTWEAR F2021/01030 - RI INVESTMENTS (PTY) LTD Class 9. BOTTLE CARRIER A2021/01034 - PHILIP MORRIS PRODUCTS S.A. Class 9. PACKAGING BOX A2021/01033 - PHILIP MORRIS PRODUCTS S.A. Class 9. PACKAGING BOX A2021/01037 - PHILIP MORRIS PRODUCTS S.A. Class 9. PACKAGING BOX - APPLIED ON 2021/09/07 -A2021/01041 - Colgate-Palmolive Company Class 9. CONTAINERS F2021/01045 - HENDRIK JOHANNES VENTER Class 04. CONNECTOR FOR CONNECTING A BRUSH TO A HANDLE A2021/01038 - HENDRIK JOHANNES VENTER Class 04. CONNECTOR FOR CONNECTING A BRUSH TO A HANDLE A2021/01040 - Colgate-Palmolive Company Class 9. CONTAINERS A2021/01044 - HENDRIK JOHANNES VENTER Class 04. CONNECTOR FOR CONNECTING A BRUSH TO A HANDLE A2021/01042 - Colgate-Palmolive Company Class 9. CONTAINERS

F2021/01039 - HENDRIK JOHANNES VENTER Class 04. CONNECTOR FOR CONNECTING A BRUSH TO A HANDLE A2021/01043 - Colgate-Palmolive Company Class 9. CONTAINERS - APPLIED ON 2021/09/08 -A2021/01046 - Busisiwe Ntuli[®] Class 32, DESIGN ARTICLE A2021/01050 - Caterpillar Inc. Class 15. BUCKETS A2021/01049 - Caterpillar Inc. Class 15. BUCKETS A2021/01048 - Caterpillar Inc. Class 15. BUCKET SHROUDS A2021/01047 - Caterpillar Inc. Class 15. BUCKET SHROUDS A2021/01051 - PRINSLOO, Jennifer-Lee Class 12. BABY WALKER - APPLIED ON 2021/09/09 -A2021/01052 - BLATT IV APFEL (PTY) LTD. Class 6. CHAIRS A2021/01056 - LUXROBO CORPORATION Class 10. ENVIRONMENTAL SENSOR MODULE FOR ELECTRONIC DEVICES A2021/01055 - CORNELL PUMP COMPANY Class 10. SENSOR DEVICE ENCLOSURE A2021/01053 - LUXROBO CORPORATION Class 14. JOYSTICK MODULE FOR ELECTRONIC DEVICES A2021/01054 - LUXROBO CORPORATION Class 13. MOTOR MODULE FOR ELECTRONIC DEVICES F2021/01057 - DETNET SOUTH AFRICA (PTY) LTD Class 22. SUPPORT DEVICE FOR AN INITIATOR F2021/01058 - DETNET SOUTH AFRICA (PTY) LTD Class 22. INITIATOR SUPPORT DEVICE - APPLIED ON 2021/09/10 -A2021/01069 - HMD Global Oy Class 14. MOBILE PHONES F2021/01064 - ECO TRUSS COVER SYSTEMS (PTY) LTD. Class 25. ROOFING ELEMENTS A2021/01070 - Ricky Class 32. HIGH ABOVE ALL F2021/01063 - ECO TRUSS COVER SYSTEMS (PTY) LTD. Class 25. ROOFING ELEMENTS F2021/01062 - ECO TRUSS COVER SYSTEMS (PTY) LTD. Class 25. ROOFING ELEMENTS F2021/01065 - ECO TRUSS COVER SYSTEMS (PTY) LTD. Class 25. ROOFING ELEMENTS A2021/01059 - ROLEX SA Class 10. WATCH DIAL F2021/01068 - ECO TRUSS COVER SYSTEMS (PTY) LTD. Class 25. ROOFING ELEMENTS F2021/01066 - ECO TRUSS COVER SYSTEMS (PTY) LTD. Class 25. ROOFING ELEMENTS

A2021/01061 - ROLEX SA Class 10. WATCH DIAL

F2021/01067 - ECO TRUSS COVER SYSTEMS (PTY) LTD. Class 25. ROOFING ELEMENTS

A2021/01060 - ROLEX SA Class 10. WATCH DIAL

- APPLIED ON 2021/09/13 -A2021/01085 - THE CORNICE MAKER CC Class 25. CORNICES A2021/01086 - THE CORNICE MAKER CC Class 25. CORNICES F2021/01089 - THE CORNICE MAKER CC Class 25. CORNICES F2021/01087 - THE CORNICE MAKER CC Class 25. CORNICES A2021/01073 - THE CORNICE MAKER CC Class 25. CORNICES A2021/01074 - THE CORNICE MAKER CC Class 25. CORNICES F2021/01075 - THE CORNICE MAKER CC Class 25. CORNICES A2021/01076 - THE CORNICE MAKER CC Class 25. CORNICES F2021/01077 - THE CORNICE MAKER CC Class 25. CORNICES A2021/01090 - ROLEX SA Class 10. WATCH CASE A2021/01091 - Green 66 Innovations Pty Ltd Class 7. STOVE A2021/01072 - THE CORNICE MAKER CC Class 25. CORNICES A2021/01093 - RAATS, Joshua Mark Class 10. A GAUGE A2021/01088 - THE CORNICE MAKER CC Class 25. CORNICES A2021/01133 - Vincent Class 32. DORI APPAREL F2021/01094 - RAATS, Joshua Mark Class 10, A GAUGE A2021/01078 - THE CORNICE MAKER CC Class 25. CORNICES F2021/01079 - THE CORNICE MAKER CC Class 25. CORNICES A2021/01080 - THE CORNICE MAKER CC Class 25, CORNICES F2021/01081 - THE CORNICE MAKER CC Class 25, CORNICES A2021/01082 - THE CORNICE MAKER CC Class 25. CORNICES A2021/01083 - THE CORNICE MAKER CC Class 25. CORNICES F2021/01092 - Green 66 Innovations Pty Ltd Class 7. STOVE A2021/01084 - THE CORNICE MAKER CC Class 25. CORNICES

- APPLIED ON 2021/09/14 -

A2021/01095 - Crocs, Inc. Class 2. FOOTWEAR

- APPLIED ON 2021/09/17 -

A2021/01102 - CORNELL PUMP COMPANY Class 15. BEARING FRAME FOR AN INDUSTRIAL PUMP

F2021/01098 - YANG, Hong Sun Class 14. MOBILE COMMUNICATION DEVICE ON WHICH GUI DESIGN IS DISPLAYED

F2021/01104 - VISSER, Jean-Pierre Class 07. A TRAY

A2021/01101 - CORNELL PUMP COMPANY Class 15. BEARING FRAME FOR AN INDUSTRIAL PUMP

F2021/01099 - NIENHUIS, Jan, Balster Class 24. REINFORCEMENT EXTRUSION FOR A CRUTCH GRIP

F2021/01096 - Christo Manus Coetzee Class 23. TANK FOR LIQUID SUBSTANCES

F2021/01097 - YANG, Hong Sun Class 14. MOBILE COMMUNICATION DEVICE ON WHICH GUI DESIGN IS DISPLAYED

A2021/01103 - VISSER, Jean-Pierre Class 07. A TRAY

A2021/01100 - CORNELL PUMP COMPANY Class 15. BEARING FRAME FOR AN INDUSTRIAL PUMP

- APPLIED ON 2021/09/20 -

F2021/01110 - CSIR Class 2. GARMENTS

F2021/01126 - NASCIMENTO, Linda Ann Class 7. WASHING LINES

A2021/01115 - CSIR Class 32. CAMOUFLAGE SURFACE PATTERNS

A2021/01113 - CSIR Class 2. GARMENTS

F2021/01118 - CSIR Class 32. CAMOUFLAGE SURFACE PATTERNS

F2021/01112 - CSIR Class 32. CAMOUFLAGE SURFACE PATTERNS

A2021/01109 - CSIR Class 2. GARMENTS

F2021/01124 - CSIR Class 2. GARMENTS

F2021/01122 - CSIR Class 32. CAMOUFLAGE SURFACE PATTERNS

A2021/01111 - CSIR Class 32. CAMOUFLAGE SURFACE PATTERNS

F2021/01106 - CSIR Class 2. GARMENTS

A2021/01119 - CSIR Class 2. GARMENTS

A2021/01105 - CSIR Class 2. GARMENTS

A2021/01125 - NASCIMENTO, Linda Ann Class 7. WASHING LINES

A2021/01121 - CSIR Class 32. CAMOUFLAGE SURFACE PATTERNS

F2021/01120 - CSIR Class 2. GARMENTS

A2021/01117 - CSIR Class 32. CAMOUFLAGE SURFACE PATTERNS

F2021/01116 - CSIR Class 32. CAMOUFLAGE SURFACE PATTERNS

A2021/01123 - CSIR Class 2. GARMENTS

A2021/01107 - CSIR Class 32. CAMOUFLAGE SURFACE PATTERNS

F2021/01114 - CSIR Class 2. GARMENTS

F2021/01108 - CSIR Class 32. CAMOUFLAGE SURFACE PATTERNS

- APPLIED ON 2021/09/21 -

A2021/01129 - STRUKSOL ENGINEERING (PTY) LTD Class 25. MESH SUPPORT BLANK

A2021/01128 - Actelion Pharmaceuticals Ltd Class 9. PACKAGING

F2021/01130 - STRUKSOL ENGINEERING (PTY) LTD Class 25. MESH SUPPORT BLANK

A2021/01127 - Actelion Pharmaceuticals Ltd Class 9. PACKAGING

A2021/01131 - SKINNY LAMINX IP HOLDINGS (PTY) LIMITED Class 05. TEXTILES

A2021/01132 - SKINNY LAMINX IP HOLDINGS (PTY) LIMITED Class 05. TEXTILES

- APPLIED ON 2021/09/22 -

A2021/01139 - ERIK GROBLER ARGITEK (PTY) LTD Class 25. DRAINAGE CHANNEL

A2021/01135 - MONTRES TUDOR SA Class 10. BEZEL FOR A WATCH

A2021/01136 - MONTRES TUDOR SA Class 10. CLASP FOR WATCH BRACELETS

A2021/01137 - MONTRES TUDOR SA Class 10. CLASP FOR WATCH BRACELETS

F2021/01140 - ERIK GROBLER ARGITEK (PTY) LTD Class 25. DRAINAGE CHANNEL

A2021/01134 - MONTRES TUDOR SA Class 10. WATCH CASE

F2021/01138 - SOUTH AFRICAN MEDICAL RESEARCH COUNCIL, STELLENBOSCH UNIVERSITY Class 24. EXTRACTION DEVICE

- APPLIED ON 2021/09/23 -

F2021/01145 - POYNTING ANTENNAS (PTY) LIMITED Class 14. ANTENNA

A2021/01149 - VODAFONE GROUP SERVICES LIMITED Class 26. MODULAR BICYCLE LIGHT

A2021/01141 - VODAFONE GROUP SERVICES LIMITED Class 26. MODULAR BICYCLE LIGHT

Page	2 4
F2021/01168 - IAN BROWN ENGINEERING CC Class 12. RIM COMPONENT	
A2021/01164 - Eisai R&D Management Co., Ltd. Class 13. CHARGERS FOR HEALTH CONDITION MONITORS	
F2021/01161 - KOOKABURRA AEROSPACE PTY LTD Class 12. REMOTELY PILOTED AIRCRAFTS	
A2021/01147 - VODAFONE GROUP SERVICES LIMITED Class 26. MODULAR BICYCLE LIGHT	
A2021/01162 - BFM Technology Limited Class 23. CONNECTORS	
A2021/01160 - KOOKABURRA AEROSPACE PTY LTD Class 12. REMOTELY PILOTED AIRCRAFTS	
A2021/01165 - BFM Technology Limited Class 23. CONNECTORS	
A2021/01163 - BFM Technology Limited Class 23. CONNECTORS	
A2021/01158 - GREAT WALL MOTOR COMPANY LIMITED, HONDEM (GUANGZHOU) TECHNOLOGY C LTD Class 12. AUTOMOBILE	O.,
A2021/01155 - MUNITZ, Ruth Lynn Class 7. COOKING UTENSILS	
A2021/01154 - MUNITZ, Ruth Lynn Class 7. COOKING UTENSILS	
A2021/01144 - VODAFONE GROUP SERVICES LIMITED Class 26. MODULAR BICYCLE LIGHT	
A2021/01169 - SCHAUENBURG (PTY) LTD T/A SCHAUENBURG SYSTEMS Class 10. ANEMOMETER	
F2021/01167 - IAN BROWN ENGINEERING CC Class 12. WHEEL RIM COMPONENT	
A2021/01166 - Eisai R&D Management Co., Ltd. Class 10. HEALTH CONDITION MONITORS	
A2021/01157 - VODAFONE GROUP SERVICES LIMITED Class 26. MODULAR BICYCLE LIGHT	
A2021/01156 - MUNITZ, Ruth Lynn Class 7. COOKING UTENSILS	
F2021/01146 - POYNTING ANTENNAS (PTY) LIMITED Class 14. ANTENNA	
A2021/01170 - HEIQ MATERIALS AG Class 29. PROTECTIVE FACE MASK	
A2021/01159 - VODAFONE GROUP SERVICES LIMITED Class 26. MODULAR BICYCLE LIGHT	
A2021/01153 - MUNITZ, Ruth Lynn Class 7. COOKING UTENSILS	
A2021/01152 - VODAFONE GROUP SERVICES LIMITED Class 26. MODULAR BICYCLE LIGHT	
A2021/01151 - VODAFONE GROUP SERVICES LIMITED Class 26. MODULAR BICYCLE LIGHT	
A2021/01150 - VODAFONE GROUP SERVICES LIMITED Class 26. MODULAR BICYCLE LIGHT	
A2021/01148 - VODAFONE GROUP SERVICES LIMITED Class 26. MODULAR BICYCLE LIGHT	
A2021/01143 - VODAFONE GROUP SERVICES LIMITED Class 26. MODULAR BICYCLE LIGHT	
A2021/01142 - VODAFONE GROUP SERVICES LIMITED Class 26. MODULAR BICYCLE LIGHT	

CHANGE OF NAME IN TERMS OF REGULATION 24

No records available

APPLICATION FOR THE RESTORATION OF A LAPSED DESIGN UNDER SECTION 23 OF THE ACT

Notice is hereby given that: **RIO-CARS (PTY) LIMITED of 13 Barium Street, Alrode South Africa** has made application for the restoration of the design registered to the said: **RIO-CARS (PTY) LIMITED** for the Design: **TOOL** application number: **F2013/01453** date: **07/08/2013** which become void on **07/08/2020** due to non-payment of the prescribed renewal fee.

Any person may give notice on Design Form No 11 of opposition to restoration of the design within two months of the advertisement hereof.

Registrar of Designs

Notice is hereby given that: ROCK SOLID INDUSTRIES INTERNATIONAL (PTY) LTD of 12 Suzuka Road, Westmead Pinetown 3610 has made application for the restoration of the design registered to the said: ROCK SOLID INDUSTRIES INTERNATIONAL (PTY) LTD for the Design: CANOPY application number: A2013/01824 date: 10/10/2013 which become void on 20/02/2017 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: **POYNTING ANTENNAS (PTY) LIMITED of Unit 4, N1 industrial Park Landmarks Avenue, Samrand 1682 Midrand South Africa** has made application for the restoration of the design registered to the said: **POYNTING ANTENNAS (PTY) LIMITED** for the Design: **ANTENNA** application number: **F2017/01054** date: **30/06/2017** which become void on **30/06/2020** due to non-payment of the prescribed renewal fee.

Any person may give notice on Design Form No 11 of opposition to restoration of the design within two months of the advertisement hereof.

Registrar of Designs

Notice is hereby given that: **POYNTING ANTENNAS (PTY) LIMITED of Unit industrial Park Landmarks Avenue, Samrand 1682 Midrand South Africa** has made application for the restoration of the design registered to the said: **POYNTING ANTENNAS (PTY) LIMITED** for the Design: **ANTENNA** application number: **F2017/01053** date: **30/06/2017** which become void on **30/06/2020** due to non-payment of the prescribed renewal fee,

Any person may give notice on Design Form No 11 of opposition to restoration of the design within two months of the advertisement hereof.

Registrar of Designs

APPLICATION TO CORRECT AND/OR AMEND DESIGNS APPLICATION OR REGISTRATION

No records available

NOTICE OF REGISTRATION OF DESIGNS

Notice of registration of the designs mentioned below has been issued by the Registrar of Designs in terms of the Designs Act, 1993 (Act No. 195 of 1993)

INSPECTION OF DESIGNS

A design application, may after a notice of registration has been published, be inspected during office hours at the Designs Office, Pretoria, at a charge of R3, 00

COPIES OF DOCUMENTS

The Designs Office, Private Bag X400, Pretoria, supplies photocopies of all design documents at R1, 00 per page. (Payment to be affected by revenue stamps only.)

The numerical references denote the following: (21) Number of application. (22) Date of lodgement. (23) release date (if applicable). (DR) Date of registration. (52) Class. (24) Type of design. (71) Name(s) of applicant(s). (33) Country. (31) Number and. (32) Date of convention application. (54) Articles to which design is to be applied. (57) Brief statement of features.

N.B.: Date of registration (DR) is either Date of lodgement (22) or Date of convention of application (32) whichever is the earlier.

Registrar of Designs

 21: A2016/01942 22: 2016-12-15 23:

 43: 2020-02-03

 52: Class 23 24: Part A

 71: DEEP ROOT IRRIGATION LLC

 33: US 31: 29/568,411 32: 2016-06-17

 54: IRRIGATION DEVICE

 57: The ornamental design for an irrigation device as shown and described

 21: A2018/00311 22: 2018-02-27 23:

 43: 2021-02-19

 52: Class 20 24: Part A

 71: Hassan Ali Taleb Binshahdoor

33: AE 31: D6000782/2017 32: 2017-12-27

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54: HORSE-SHOE DESIGN WITH CROSS RIB SQUARE PATTERN

57: The design relates to a horse-shoe design with cross rib square pattern. The features of the design are those of shape, pattern, ornamentation and configuration



21: A2019/00428 22: 2019-04-02 23: 43:

52: Class 31 24: Part A

71: SODASTREAM INDUSTRIES LTD.

33: IL 31: 62747 32: 2018-10-04

54: DOMESTIC SODA-WATER PREPARING DEVICES

57: The design is for a domestic soda-water preparing device as shown in the representations.



21: A2019/00430 22: 2019-04-02 23:

43:

52: Class 09 24: Part A

71: SODASTREAM INDUSTRIES LTD

33: IL 31: 62748 32: 2018-10-04

54: BOTTLES

57: The design is for a bottle as shown in the representations.



21: A2019/00431 22: 2019-04-02 23: 43:

52: Class 09 24: Part A

71: SODASTREAM INDUSTRIES LTD

33: IL 31: 62865 32: 2018-11-05

54: BOTTLES

57: The design is for a bottle with a horizontal surface pattern as shown in the representations.



- 21: A2019/01505 22: 2019-10-09 23:
- 43: 2021-08-18
- 52: Class 09 24: Part A
- 71: VILJOEN, Charlotte Christina
- **54: CARRYING DEVICE**

57: The design relates to a Carrying device. The features of the design are those of shape and/or pattern and/or configuration and/or ornamentation.



21: A2020/00156 22: 2020-02-10 23: 43: 2021-04-15 52: Class 07 24: Part A

71: UNBRIDLED TRADING 6 CC 54: BARBECUE

57: The features of the design for which novelty is claimed are the shape and / or configuration and / or pattern and / or ornamentation of a BARBECUE as shown in the accompanying representations.



3D VIEW

21: A2020/00161 22: 2020-02-11 23: 43: 2021-04-26

52: Class 07 24: Part A

71: UNBRIDLED TRADING 6 CC

54: BARBECUE

57: The features of the design for which novelty is claimed are the shape and / or configuration and / or pattern and / or ornamentation of a BARBECUE as shown in the accompanying representations.



3D VIEW

21: A2020/00163 22: 2020-02-11 23:

- 43: 2021-04-15
- 52: Class 23 24: Part A
- 71: UNBRIDLED TRADING 6 CC

54: FIREPLACE

57: The features of the design for which novelty is claimed are the shape and / or configuration and / or pattern and / or ornamentation of a FIREPLACE as shown in the accompanying representations.



<u>3D VIEW</u>

21: A2020/00178 22: 2020-02-13 23:

43: 2021-07-01

52: Class 21 24: Part A

71: PLAY SENSE (PTY) LTD

54: A CLIMBING FRAME

57: The design is applied to a climbing frame. The features of the design for which protection is claimed are those of the shape and/or configuration and/or

pattern and/or ornamentation of the climbing frame, substantially as illustrated in the accompanying representation.



- 21: A2020/00532 22: 2020-05-06 23:
- 43: 2021-02-08
- 52: Class 24 24: Part A
- 71: Glenmark Pharmaceuticals Europe Ltd
- 33: GB 31: 007193776-0002 32: 2019-11-06

54: INHALERS

57: The features of the design for which protection is claimed include the pattern and/or shape and/or configuration and/or ornamentation of an inhaler substantially as illustrated in the accompanying representations.



- 21: A2020/00570 22: 2020-05-11 23:
- 43: 2021-05-03
- 52: Class 30 24: Part A
- 71: CERES TAG PTY LTD
- 33: AU 31: 201916435 32: 2019-11-12
- 54: ANIMAL TAG APPLICATOR

57: The design relates to an animal tag applicator for applying an animal tag. The features of the design for which protection is claimed reside in the shape and/or configuration of the animal tag applicator substantially shown in the accompanying representations irrespective of the appearance of the animal tag shown in dashed lines.



21: A2020/00636 22: 2020-05-22 23:

- 43: 2019-11-25
- 52: Class 04 24: Part A
- 71: Colgate-Palmolive Company
- 33: US 31: 29/714,649 32: 2019-11-25

54: ORAL CARE IMPLEMENTS

57: The design is for an oral care implement and, in particular, for part of a handle of a toothbrush. The part comprises a cylindrical spigot having a larger diameter neck and a smaller diameter free end with an inclined portion between the neck and free end. An elongate lug is provided adjacent the neck and a ring is provided around the neck.



- 43: 2019-11-25
- 52: Class 04 24: Part A

71: Colgate-Palmolive Company

33: US 31: 29/714,649 32: 2019-11-25

54: ORAL CARE IMPLEMENTS

57: The design is for an oral care implement and, in particular, for part of a handle of a toothbrush. The part comprises a convexly curved elliptical shoulder portion mounted adjacent to a circular cylindrical neck.



- 21: A2020/00638 22: 2020-05-22 23:
- 43: 2019-11-25
- 52: Class 04 24: Part A
- 71: Colgate-Palmolive Company
- 33: US 31: 29/714,654 32: 2019-11-25

54: ORAL CARE IMPLEMENTS

57: The design is for an oral care implement comprising an elongate forwardly curved stem that tapers gently inwardly as it extends upwardly from a base to an oval head. The base slants downwardly from a front towards a rear surface of the oral care implement and defines a circular recess having a channel provided on an inside wall thereof which extends into the stem.



Figure 1

21: A2020/00639 22: 2020-05-22 23:

- 43: 2019-11-25
- 52: Class 04 24: Part A
- 71: Colgate-Palmolive Company
- 33: US 31: 29/714,654 32: 2019-11-25

54: ORAL CARE IMPLEMENTS

57: The design is for an oral care implement and specifically a base of a toothbrush stem. The base slants downwardly from a front towards a rear surface of the oral care implement and defines a circular recess having a channel on an inside wall thereof.



- 43: 2021-07-06
- 52: Class 32. 24: Part A
- 71: BAYER HEALTHCARE LLC
- 33: EM 31: 007481197-0001 32: 2020-01-06

54: Logo

57: The design relates to a logo. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

Three-dimensional view



PLAN VIEW - FIRST EMBODIMENT

21: A2020/00865 22: 2020-06-19 23: 43: 2021-07-06 52: Class 32. 24: Part A

71: BAYER HEALTHCARE LLC

33: EM 31: 007481197-0002 32: 2020-01-06

54: Logo

57: The design relates to a logo. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



PLAN VIEW - FIRST EMBODIMENT

21: A2020/00866 22: 2020-06-19 23:

43: 2021-07-06

52: Class 32. 24: Part A

71: BAYER HEALTHCARE LLC

33: EM 31: 007481197-0009 32: 2020-01-06

54: Logo

57: The design relates to a logo. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



PLAN VIEW - FIRST EMBODIMENT

- 21: A2020/00867 22: 2020-06-19 23:
- 43: 2021-07-06
- 52: Class 32. 24: Part A
- 71: BAYER HEALTHCARE LLC

33: EM 31: 007481197-0003 32: 2020-01-06

54: Logo

57: The design relates to a logo. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



PLAN VIEW - FIRST EMBODIMENT

- 21: A2020/00868 22: 2020-06-19 23: 43: 2021-07-06 52: Class 32. 24: Part A 71: BAYER HEALTHCARE LLC
- 33: EM 31: 007481197-0004 32: 2020-01-06
- 54: Logo

57: The design relates to a logo. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



PLAN VIEW - FIRST EMBODIMENT

21: A2020/00869 22: 2020-06-19 23: 43: 2021-07-06 52: Class 32. 24: Part A 71: BAYER HEALTHCARE LLC 33: EM 31: 007481197• -0005 32: 2020-01-06 **54: Logo**

57: The design relates to a logo. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



FLAN VIEW - FIRST EMBODIMENT

21: A2020/00870 22: 2020-06-19 23: 43: 2021-07-15 52: Class 32. 24: Part A 71: BAYER HEALTHCARE LLC

33: EM 31: 007481197• -0006 32: 2020-01-06 **54: Logo**

57: The design relates to a logo. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



PLAN VIEW - FIRST EMBODIMENT

- 21: A2020/00871 22: 2020-06-19 23:
- 43: 2021-07-15
- 52: Class 32. 24: Part A
- 71: BAYER HEALTHCARE LLC
- 33: EM 31: 007481197• -0007 32: 2020-01-06
- 54: Logo

57: The design relates to a logo. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



PLAN VIEW - FIRST EMBODIMENT

21: A2020/00872 22: 2020-06-19 23:

43: 2021-07-06 52: Class 32. 24: Part A 71: BAYER HEALTHCARE LLC 33: EM 31: 007481197• -0010 32: 2020-01-06 **54: Logo 57**: The design relates to a logo. The features of

57: The design relates to a logo. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



PLAN VIEW - FIRST EMBODIMENT

21: A2020/00873 22: 2020-06-19 23:

43: 2021-07-06

52: Class 32. 24: Part A

71: BAYER HEALTHCARE LLC

33: EM 31: 007481197-0011 32: 2020-01-06

54: Logo

57: The design relates to a logo. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



PLAN VIEW - FIRST EMBODIMENT

- 21: A2020/00874 22: 2020-06-19 23:
- 43: 2021-07-06
- 52: Class 32. 24: Part A
- 71: BAYER HEALTHCARE LLC
- 33: EM 31: 007481197-0008 32: 2020-01-06
- 54: Logo

57: The design relates to a logo. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



PLAN VIEW - FIRST EMBODIMENT

- 21: A2020/01008 22: 2020-07-20 23:
- 43: 2020-01-21
- 52: Class 12 24: Part A
- 71: MAN Truck & Bus SE
- 33: DE 31: 402020200299.6 32: 2020-01-21

54: DISPLAY AND CONTROL ELEMENTS

57: The design is for a wrist rest of a display and control element and comprises a triangular body with the longest side defining an elongate recess along its length and a central rectangular recess. The body includes a raised triangular mid-section at an upper and a lower surface. The upper mid-section includes an upwardly extending circular platform from which a circular member protrudes upwardly. An elongate arm is pivotally attached to a rear wall of the body and extends to a forwardly curved head that is triangular in side profile, the head defining a recess. In a closed configuration the arm pivots forwards such that the circular member is received within the recess of the head.



Figure 1

Three-dimensional view with a wrist rest in a closed configuration

- 21: A2020/01009 22: 2020-07-20 23:
- 43: 2020-01-21
- 52: Class 12 24: Part A
- 71: MAN Truck & Bus SE
- 33: DE 31: 402020200299.6 32: 2020-01-21

54: DISPLAY AND CONTROL ELEMENTS

57: The design is for a wrist rest of a display and control element and comprises a triangular body with the longest side defining an elongate recess along its length and a central rectangular recess. The body includes a raised triangular mid-section at an upper and a lower surface. The upper mid-section includes an upwardly protruding circular platform. An elongate arm is pivotally attached to a rear wall of the body and extends to a forwardly curved head that is triangular in side profile, the head defining a recess. In a closed configuration the arm pivots forwards such that the head is above the circular platform.



Three-dimensional view with a wrist rest in an open configuration

21: A2020/01010 22: 2020-07-20 23:
43: 2020-01-21
52: Class 12 24: Part A
71: MAN Truck & Bus SE
33: DE 31: 402020200299.6 32: 2020-01-21
54: DISPLAY AND CONTROL ELEMENTS
57: The design is for a wrist rest and comprises an elongate arm that includes a forwardly protruding attachment means defining a concavely curved recess at a first end and a forwardly downwardly curved head at a second end. The head is triangular in side profile and defines a recess. A front wall of the head defines a central elongate recess with each corner of the head protruding forwardly past the

recess.



Front view

21: A2020/01161 22: 2020-08-27 23: 43: 2021-04-22

52: Class 06 24: Part A

71: MARSH, Richard

54: ADJUSTABLE PILLOW INSERT

57: The features of the design for which protection is claimed reside in the shape and/or configuration of the adjustable pillow insert substantially as shown in the accompanying representations. The adjustable pillow insert promotes better sleeping posture in users and includes three stackable elements which are inserted into a suitable pillow cover and may be used to adjust the height of the pillow.



21: A2020/01588 22: 2020-12-04 23:
43: 2021-07-25
52: Class 21 24: Part A
71: ADP GAUSELMANN GMBH
33: EU 31: 8024780 32: 2020-06-26
54: HOUSING FOR A GAMING MACHINE
57: The design is applied to a housing for a gaming

57: The design is applied to a housing for a gaming machine. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern and/or ornamentation of the housing for a gaming machine, substantially as illustrated in the accompanying representation.



21: A2020/01592 22: 2020-12-08 23:

- 43: 2021-07-25
- 52: Class 24 24: Part A
- 71: UKU HAMBA (PTY) LTD

54: PROSTHETIC LEG

57: The design is applied to a prosthetic leg. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern and/or ornamentation of the prosthetic leg, substantially as illustrated in the accompanying representation. Colour and colour combinations do not form part of the design and are disclaimed.



21: A2020/01600 22: 2020-12-10 23: 43: 2021-07-23 52: Class 06 24: Part A 71: MYDINKY (PTY) LIMITED

54: ATTACHABLE CONTAINER

57: The design is to be applied to an attachable container that is attachable to foldable step/stool/table B. The features of the design for which protection is claimed reside in the shape and/or configuration and/or ornamentation and/or pattern substantially as illustrated in the accompanying representations.



PERSPECTIVE VIEW FROM BELOW OF THE FURNITURE UNIT WITH AN ATTACHMENT

21: A2020/01601 22: 2020-12-10 23:

- 43: 2021-07-23
- 52: Class 06 24: Part A
- 71: MYDINKY (PTY) LIMITED

54: FOLDABLE STEP/STOOL/TABLE WITH ATTACHABLE CONTAINER

57: The features of the design for which protection is claimed reside in the shape and/or configuration and/or ornamentation and/or pattern of a foldable step/stool/table with attachable container substantially as illustrated in the accompanying representations.



PERSPECTIVE VIEW FROM ABOVE OF FOLDABLE STEP/STOOL/TABLE WITH ATTACHABLE CONTAINER

- 21: A2020/01603 22: 2020-12-10 23:
- 43: 2021-07-23
- 52: Class 32 24: Part A
- 71: PHILIP MORRIS PRODUCTS S.A.

33: EU 31: 007999925 32: 2020-06-12

54: LOGO

57: The design is to be applied to a logo. 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.



PLAN VIEW

21: A2020/01604 22: 2020-12-10 23: 43: 2021-07-23

52: Class 32 24: Part A

71: PHILIP MORRIS PRODUCTS S.A.

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33: EU 31: 007999925 32: 2020-06-12

54: LOGO

57: The design is to be applied to a logo. 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.



PLAN VIEW

21: A2020/01607 22: 2020-12-10 23: 43: 2021-07-22 52: Class 3. 24: Part A 71: APPLE INC. 33: US 31: 29/743,840 32: 2020-07-24 54: Card Holder

57: The design relates to a card holder. The features of the design are those of shape and/or configuration and/or ornamentation.



TOP FRONT PERSPECTIVE VIEW

21: A2020/01608 22: 2020-12-10 23:

43: 2021-07-22

52: Class 16. 24: Part A

71: KYOCERA DOCUMENT SOLUTIONS INC.

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54: Developing Cartridge

57: The design relates to a developing cartridge. The features of the design are those of shape and/or configuration and/or pattern.



FRONT PERSPECTIVE VIEW

21: A2020/01623 22: 2020-12-15 23: 43: 2021-07-22

52: Class 16 24: Part A

71: 100% SPEEDLAB, LLC

33: US 31: 29/739,379 32: 2020-06-24

54: GOGGLES

57: The design is applied to goggles. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern and/or ornamentation of the goggles, substantially as illustrated in the accompanying representation. Features shown in broken lines do not form part of the design and are disclaimed.



21: A2020/01644 22: 2020-12-18 23: 43: 2021-07-21 52: Class 12 24: Part A 71: BIG COUNTRY MANUFACTURING (PTY) LTD 54: A LOAD BIN COVER 57: The design is applied to a vehicle load bin cover. The features of the design for which protection is claimed include the pattern and/or shape and/or configuration of the load bin cover substantially as illustrated in the accompanying drawings.



- 21: A2020/01647 22: 2020-12-18 23:
- 43: 2020-07-01
- 52: Class 12 24: Part A
- 71: The Goodyear Tire & Rubber Company
- 33: EM(BE) 31: 008028278-0001 32: 2020-07-01

54: TIRES

57: The design is for a tire comprising a center circumferential rib, first and second intermediate circumferential ribs separated from the center rib by a wide circumferential intermediate groove; and first and second shoulder circumferential ribs separated from a respective intermediate rib by a wide circumferential shoulder groove. The shoulder ribs have a circumferential array of equally inclined quadrilateral rib elements extending from an outward edge to the shoulder groove and lateral sipes between adjacent quadrilateral elements within each array. The intermediate ribs have a circumferential array of equally inclined grooves extending between a shoulder groove and an intermediate groove and inclined lateral sipes between adjacent inclined grooves within each array. The center rib has a circumferential array of inclined groove fingers extending between intermediate grooves, each center rib element having an inclined lateral sipe.



21: A2020/01648 22: 2020-12-18 23:

- 43: 2020-06-30
- 52: Class 16 24: Part A
- 71: Daniel Wellington AB
- 33: EM(SE) 31: 008023147-0001 32: 2020-06-30 54: SUNGLASSES

57: The design is for sunglasses. The sunglasses are aviator glasses having a thin metal frame. A thin metal rim rearwardly supports each lens which is wider at an operative upper end thereof and tapers to a narrower lower end. A bridge, which is configured to arch over a nose of a user, and which connects the two rims, and a top bar, which extends across the two rims at operative upper ends thereof, are generally parallel. An end piece extends outwardly away from each rim at an operative outer edge thereof and connects to a temple. The temple is configured to extend over a side of a user's face and ear. The wording "DANIEL WELLINGTON" is provided on an operative outer side surface of each temple. Each temple ends in an earpiece which is configured to rest upon a user's ear.



21: A2020/01649 22: 2020-12-18 23: 43: 2020-06-30 52: Class 16 24: Part A 71: Daniel Wellington AB

33: EM(SE) 31: 008023147-0002 32: 2020-06-30 54: SUNGLASSES

57: The design is for sunglasses. The sunglasses are aviator glasses having a thin metal frame. A thin metal rim rearwardly supports each lens which is wider at an operative upper end thereof and tapers to a narrower lower end. A bridge, which is configured to arch over a nose of a user, and which connects the two rims, and a top bar, which extends across the two rims at operative upper ends thereof, are generally parallel. An end piece extends outwardly away from each rim at an operative outer edge thereof and connects to a temple. The temple is configured to extend over a side of a user's face and ear and ends in a curved earpiece. The earpiece is configured to rest upon a user's ear.



21: A2020/01650 22: 2020-12-18 23:

- 43: 2020-06-30
- 52: Class 16 24: Part A
- 71: Daniel Wellington AB

33: EM(SE) 31: 008023147-0003 32: 2020-06-30 54: SUNGLASSES

57: The design is for sunglasses. The sunglasses are aviator glasses having a thin gold metal frame. A thin gold rim rearwardly supports each lens which is wider at an operative upper end thereof and tapers to a narrower lower end. Each lens is black. A gold bridge, which is configured to arch over a nose of a user, and which connects the two rims, and a gold top bar, which extends across the two rims at operative upper ends thereof, are generally parallel. An end piece extends outwardly away from each rim at an operative outer edge thereof and connects to a temple. The temple is configured to extend over a side of a user's face and ear. The wording "DANIEL WELLINGTON" is provided on an operative outer side surface of each temple. Each temple ends in a black earpiece which is configured to rest upon a user's ear.



21: A2020/01651 22: 2020-12-18 23:

43: 2020-06-25

52: Class 07 24: Part A

71: Joseph Joseph Ltd

33: EM(GB) 31: 008021760-0001 32: 2020-06-25

54: IRONING BOARDS

57: The design is applied to an ironing board including a body having a narrow, rounded end that gently tappers towards an opposite, broader end. The body comprises a substantially flat upper surface and a lower surface comprising a locating mechanism for folding legs. A minor portion of the upper surface of the body, located proximate the broader end, comprises an iron rest surface comprising a series of rounded gripping formations. The iron board comprises a pair of folding legs arranged relative to each other in a crosswise fashion. One of the pair of legs comprises a pair of elongate, cylindrical members that are spaced from each other by a gap, and both cylindrical members terminate in a Y-shaped section defining a gap. The other leg comprises an elongate, cylindrical member that terminates in a Y-shaped toes. A hook member extends from the lower surface proximate one of the folding legs.



Figure 1

Three-dimensional view with legs in an unfolded configuration

- 21: A2020/01652 22: 2020-12-18 23:
- 43: 2020-06-25
- 52: Class 07 24: Part A
- 71: Joseph Joseph Ltd
- 33: EM(GB) 31: 008021760-0002 32: 2020-06-25

54: IRONING BOARDS 57: The design is applied to an iron board comprising a folded body having a first and second substantially upright sections, each of which having an gently rounded narrow end. A case extends from a front side of the first upright section. The case comprises a base, a front wall and side walls connecting the front wall to the first upright section. The front wall defines an opening for accommodating a handle portion of an iron, in use. Each of the first and second upright sections comprises a horizontally oriented, elongate member onto which is secured a U-shaped legs. A retaining

provided on each of the U-shaped legs. A retaining arrangement comprising a lip and retaining bar is provided proximate the narrow ends of each of the first and second sections to retain the first and second sections relative to each other.


Figure 1

Three-dimensional view in a folded configuration

21: A2020/01659 22: 2020-12-22 23: 43: 2021-07-22 52: Class 12 24: Part A 71: HYUNDAI MOTOR COMPANY, KIA MOTORS CORPORATION 33: KR 31: 30-2020-0028335 32: 2020-06-23

54: AUTOMOBILE

57: The representation shows a perspective view of the automobile showing the overall appearance thereof.



21: A2020/01660 22: 2020-12-22 23:
43: 2021-07-25
52: Class 32 24: Part A
71: PHILIP MORRIS PRODUCTS S.A.
33: EU 31: 008206890 32: 2020-10-19
54: LOGO, GRAPHIC SYMBOL, SURFACE
PATTERN, OR ORNAMENTATION
57: The design is to be applied to a logo, graphic

symbol, surface pattern, or ornamentation. 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. The broken lines are for illustrative purposes only and form no part of the claimed design.



PLAN VIEW

21: A2020/01661 22: 2020-12-22 23:
43: 2021-07-25
52: Class 32 24: Part A
71: PHILIP MORRIS PRODUCTS S.A.
33: EU 31: 008206890 32: 2020-10-19
54: LOGO, GRAPHIC SYMBOL, SURFACE
PATTERN, OR ORNAMENTATION
57: The design is to be applied to a logo, graphic symbol, surface pattern, or ornamentation. 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. The broken lines are for illustrative purposes only and form no part of the claimed design.



PLAN VIEW

21: A2020/01662 22: 2020-12-22 23:

- 43: 2021-07-25
- 52: Class 32 24: Part A
- 71: PHILIP MORRIS PRODUCTS S.A.

33: EU 31: 008206890 32: 2020-10-19 54: LOGO, GRAPHIC SYMBOL, SURFACE

PATTERN, OR ORNAMENTATION

57: The design is to be applied to a logo, graphic symbol, surface pattern, or ornamentation. 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. The broken lines are for illustrative purposes only and form no part of the claimed design.



PLAN VIEW

- 21: A2020/01664 22: 2020-12-22 23:
- 43: 2021-07-25
- 52: Class 32 24: Part A
- 71: PHILIP MORRIS PRODUCTS S.A.
- 33: EU 31: 008206890 32: 2020-10-19
- 54: LOGO, GRAPHIC SYMBOL, SURFACE PATTERN, OR ORNAMENTATION

57: The design is to be applied to a logo, graphic symbol, surface pattern, or ornamentation. 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. The broken lines are for illustrative purposes only and form no part of the claimed design.



PLAN VIEW

21: A2020/01670 22: 2020-12-22 23:

- 43: 2020-06-30
- 52: Class 24 24: Part A
- 71: Essity Hygiene and Health Aktiebolag
- 33: EM(SE) 31: 008026215-0001 32: 2020-06-30

54: ABSORBENT ARTICLES

57: The design is for ornamentation for absorbent articles, specifically pull-up pants, having a peripherally extending top edge which is continuously undulating.



Front view

21: A2020/01671 22: 2020-12-22 23:

- 43: 2020-06-30
- 52: Class 24 24: Part A

71: Essity Hygiene and Health Aktiebolag

33: EM(SE) 31: 008026215-0002 32: 2020-06-30

54: ABSORBENT ARTICLES

57: The design is for ornamentation for absorbent articles, specifically pull-up pants. The pants comprise a peripherally extending top edge which is continuously undulating edge, a pair of side seams extending from the top edge to a pair of inwardly curved leg cuffs that join at a central crotch portion.



Front view

- 21: A2020/01672 22: 2020-12-22 23:
- 43: 2020-06-30
- 52: Class 32 24: Part A
- 71: Essity Hygiene and Health Aktiebolag
- 33: EM(SE) 31: 008026215-0004 32: 2020-06-30

54: ORNAMENTATION FOR ABSORBENT ARTICLES

57: The design is for ornamentation for absorbent articles, specifically pull-up pants. The pants comprise a peripherally extending top edge which is continuously undulating. Upper sections of front and rear surfaces comprise a peripherally extending arrangement of offset rows having a twisted woven or undulating appearance, the arrangement covering a major area of the front and rear surfaces.



Front view

21: A2020/01673 22: 2020-12-22 23:

43: 2020-06-30

52: Class 32 24: Part A

71: Essity Hygiene and Health Aktiebolag

33: EM(SE) 31: 008026215-0006 32: 2020-06-30 54: ORNAMENTATION FOR ABSORBENT

ARTICLES

57: The design is for ornamentation for absorbent articles, specifically pull-up pants. The pants comprise a peripherally extending top edge which is continuously undulating. Upper sections of front and rear surfaces comprise a peripherally extending arrangement of offset rows having a twisted woven or undulating appearance, the arrangement covering a minor area of the front and rear surfaces.



- 21: A2020/01675 22: 2020-12-23 23:
- 43: 2020-07-07
- 52: Class 11 24: Part A
- 71: Daniel Wellington AB
- 33: EM(SE) 31: 008032502-0001 32: 2020-07-07 54: JEWELLERY

54: JEWELLERY

57: The design is for jewellery and in particular for an earring. The earring comprises a ball attached to an elongate member. The elongate member includes a notched portion towards a free end, the free end being convexly curved. A band extends circumferentially around the ball and includes spaced apart letters that spell out the words Daniel Wellington and includes a ring element at the end/beginning of the words.



Figure 1

Three-dimensional view

- 21: A2020/01676 22: 2020-12-23 23:
- 43: 2020-07-07
- 52: Class 11 24: Part A
- 71: Daniel Wellington AB
- 33: EM(SE) 31: 008032502-0002 32: 2020-07-07
- 54: JEWELLERY
- 57: The design is for jewellery and in particular for an earring. The earring comprises a ball attached to

an elongate member. The elongate member includes a notched portion towards a free end, the free end being convexly curved. A band extends circumferentially around the ball and includes a ring element.



Figure 1

Three-dimensional view

- 21: A2020/01677 22: 2020-12-23 23:
- 43: 2020-07-07
- 52: Class 11 24: Part A
- 71: Daniel Wellington AB
- 33: EM(SE) 31: 008032502-0021 32: 2020-07-07
- 54: JEWELLERY

57: The design is for an article of jewellery and, in particular, for a chain. The chain comprises a plurality of interlinked oval links. A lobster clasp is provided at a first free end of the chain. A jump ring is provided at a second oppositely located free end of the chain. Two jump rings are provided proximate the second free end, wherein adjacent jump rings are separated from each other with a section of chain. An elongate plate insert is included in the chain. Each free end of the plate insert is connected to an adjacent oval link via a jump ring. A ring pendant is included in the chain. Operative outer edges of the ring are chamfered. A circumferential central portion of the outer surface of the ring is recessed. The wording "DANIEL WELLINGTON" is provided along this central recessed portion.





Three-dimensional view

21: A2020/01678 22: 2020-12-23 23:

- 43: 2020-07-07
- 52: Class 11 24: Part A
- 71: Daniel Wellington AB

33: EM(SE) 31: 008032502-0022 32: 2020-07-07 54: JEWELLERY

57: The design is for an article of jewellery and, in particular, for a chain. The chain comprises a plurality of interlinked oval links. A lobster clasp is provided at a first free end of the chain. A jump ring is provided at a second oppositely located free end of the chain. Two jump rings are provided proximate the second free end, wherein adjacent jump rings are separated from each other with a section of chain. An elongate plate insert is included in the chain. Each free end of the plate insert is connected to an adjacent oval link via a jump ring. A ring pendant is included in the chain. Operative outer edges of the ring are chamfered. A circumferential central portion of the outer surface of the ring is recessed.



Three-dimensional view

- 21: A2020/01679 22: 2020-12-23 23:
- 43: 2020-07-07
- 52: Class 11 24: Part A
- 71: Daniel Wellington AB
- 33: EM(SE) 31: 008032502-0025 32: 2020-07-07 54: JEWELLERY

57: The design is for an article of jewellery and, in particular, for a three band ring. The three bands are arranged parallel to each other and spaced from each other such that there are two outer bands and a central band. The spacing between the bands is asymmetrical such that the central band is spaced closer to one outer band than the other. The bands are integrally connected with two spaced elongate connectors. Each outer band has a generally square cross-sectional outline. The central band is wider than the two outer bands and thus has a rectangular cross-sectional profile. The two outer bands have chamfered operatively outer edges. The wording "DANIEL WELLINGTON" is provided on an inner surface of the central band.





Figure 1

Three-dimensional view

Figure 1

Three-dimensional view

- 21: A2020/01680 22: 2020-12-23 23:
- 43: 2020-07-07
- 52: Class 11 24: Part A
- 71: Daniel Wellington AB
- 33: EM(SE) 31: 008032502-0026 32: 2020-07-07

54: JEWELLERY

57: The design is for an article of jewellery and, in particular, for a three band ring. The three bands are arranged parallel to each other and spaced from each other such that there are two outer bands and a central band. The spacing between the bands is asymmetrical such that the central band is spaced closer to one outer band than the other. The bands are integrally connected with two spaced elongate connectors. Each outer band has a generally square cross-sectional outline. The central band is wider than the two outer bands and thus has a rectangular cross-sectional profile. The two outer bands have chamfered operatively outer edges.

- 21: A2020/01681 22: 2020-12-23 23:
- 43: 2020-07-07
- 52: Class 11 24: Part A
- 71: Daniel Wellington AB
- 33: EM(SE) 31: 008032502-0035 32: 2020-07-07 54: JEWELLERY

57: The design is for jewellery and in particular for a hoop earring. The earring comprises a convexly curved semi-circular body with chamfered edges. The body includes two spaced apart bands that curve along an arc of the body. A central portion of the body includes spaced apart letters that extend along the arc and spell out the words Daniel Wellington. An elongate member with a convexly curved free end projects outwardly from a top wall of the body. The elongate member passes through a recess of a butterfly earring back, which comprises a flat central portion having end portions that project upwardly and curl inwardly.





Figure 1

Three-dimensional view

21: A2020/01682 22: 2020-12-23 23:

43: 2020-07-07

52: Class 11 24: Part A

71: Daniel Wellington AB

33: EM(SE) 31: 008032502-0039 32: 2020-07-07

54: JEWELLERY

57: The design is for an article of jewellery and, in particular, for a two band ring. The ring is gold. The two bands are arranged parallel to each other and are spaced from each other. The bands are integrally connected with two spaced elongate connectors. Each band has a generally square cross-sectional outline with chamfered operatively outer edges. The wording "DANIEL WELLINGTON" is provided on an inner surface of one band. Figure 1

Three-dimensional view

21: A2020/01683 22: 2020-12-23 23:

- 43: 2020-07-07
- 52: Class 11 24: Part A

71: Daniel Wellington AB

33: EM(SE) 31: 008032502-0040 32: 2020-07-07

54: JEWELLERY

57: The design is for an article of jewellery and, in particular, for a two band ring. The ring is silver. The two bands are arranged parallel to each other and are spaced from each other. The bands are integrally connected with two spaced elongate connectors. Each band has a generally square cross-sectional outline with chamfered operatively outer edges. The wording "DANIEL WELLINGTON" is provided on an inner surface of one band.



Figure 1 Three-dimensional view

21: A2020/01684 22: 2020-12-23 23:

43: 2020-07-07

52: Class 11 24: Part A

71: Daniel Wellington AB

33: EM(SE) 31: 008032502-0042 32: 2020-07-07 54: JEWELLERY

57: The design is for jewellery and in particular for a hoop earring. The earring comprises a convexly curved semi-circular body with chamfered edges. The body includes spaced apart letters that extend along the arc and spell out the words Daniel Wellington. An elongate member with a convexly curved free end projects outwardly from a top wall of the body. The elongate member passes through a recess of a butterfly earring back, which comprises a flat central portion having end portions that project upwardly and curl inwardly.



Figure 1 Three-dimensional view

- 21: A2020/01685 22: 2020-12-23 23:
- 43: 2020-07-07

52: Class 11 24: Part A

71: Daniel Wellington AB

33: EM(SE) 31: 008032502-0043 32: 2020-07-07

54: JEWELLERY

57: The design is for jewellery and in particular for a chain and pendant. The chain comprises a plurality of interlinked oval links. A lobster clasp is provided at a first free end of the chain. Five spaced apart jump rings are provided at a second free end of the chain. The chain passes through and around a ring-shaped pendant.



- 21: A2020/01686 22: 2020-12-23 23:
- 43: 2020-07-07
- 52: Class 11 24: Part A
- 71: Daniel Wellington AB

33: EM(SE) 31: 008032502-0045 32: 2020-07-07

54: JEWELLERY

57: The design is for an article of jewellery and, in particular, for a three band ring. The ring is silver. The three bands are arranged parallel to each other and spaced from each other such that there are two outer bands and a central band. The spacing between the bands is asymmetrical such that the central band is spaced closer to one outer band than the other. The bands are integrally connected with two spaced elongate connectors. Each outer band has a generally square cross-sectional outline. The central band is wider than the two outer bands, therefore it has a rectangular cross-sectional profile. The two outer bands have chamfered operatively outer edges. The wording "DANIEL WELLINGTON" is provided on an inner surface of the central band.



Figure 1 Three-dimensional view

- 21: A2020/01687 22: 2020-12-23 23:
- 43: 2020-07-07
- 52: Class 11 24: Part A
- 71: Daniel Wellington AB

33: EM(SE) 31: 008032502-0005 32: 2020-07-07 54: JEWELLERY

57: The design is for an article of jewellery and, in particular, for a chain. The chain comprises a plurality of interlinked oval links. A lobster clasp is provided at a first free end of the chain. A jump ring is provided at a second oppositely located free end of the chain. Two jump rings are provided proximate the second free end, wherein adjacent jump rings are separated from each other with a section of chain. An elongate plate insert is included in the chain. Each free end of the plate insert is connected to an adjacent oval link via a jump ring. A ball pendant is included in the chain. A bail connected to the ball pendant is connected to two oval links via

two jump rings. The wording "DANIEL WELLINGTON" is provided along an equator line of the ball pendant.



Three-dimensional view

21: A2020/01688 22: 2020-12-23 23:

43: 2020-07-07

52: Class 11 24: Part A

71: Daniel Wellington AB

33: EM(SE) 31: 008032502-0047 32: 2020-07-07

54: JEWELLERY

57: The design is for jewellery and in particular for a hoop earring. The earring comprises a convexly curved semi-circular body with chamfered edges. The body includes spaced apart letters that extend along the arc and spell out the words Daniel Wellington. An elongate member with a convexly curved free end projects outwardly from a top wall of the body. The elongate member passes through a recess of a butterfly earring back, which comprises a flat central portion having end portions that project upwardly and curl inwardly.



Figure 1 Three-dimensional view

21: A2020/01689 22: 2020-12-23 23: 43: 2020-07-07 52: Class 11 24: Part A 71: Daniel Wellington AB

33: EM(SE) 31: 008032502-0048 32: 2020-07-07 54: JEWELLERY

57: The design is for jewellery and in particular for a chain and pendant. The chain comprises a plurality of interlinked oval links. A lobster clasp is provided at a first free end of the chain. Five spaced apart jump rings are provided at a second free end of the chain. The chain passes through and around a ring-shaped pendant.



- 21: A2020/01690 22: 2020-12-23 23:
- 43: 2020-07-07
- 52: Class 11 24: Part A
- 71: Daniel Wellington AB
- 33: EM(SE) 31: 008032502-0050 32: 2020-07-07 54: JEWELLERY

57: The design is for an article of jewellery and, in particular, for a three band ring. The ring is gold. The three bands are arranged parallel to each other and spaced from each other such that there are two outer bands and a central band. The spacing between the bands is asymmetrical such that the central band is spaced closer to one outer band than the other. The bands are integrally connected with two spaced elongate connectors. Each band has a generally square cross-sectional outline. The central band is wider than the two outer bands therefore it has a rectangular cross-sectional profile. The two outer bands have chamfered axially outer edges. The wording "DANIEL WELLINGTON" is provided on an inner surface of the central band.



Figure 1 Three-dimensional view

21: A2020/01691 22: 2020-12-23 23:

43: 2020-07-07

52: Class 11 24: Part A

71: Daniel Wellington AB

33: EM(SE) 31: 008032502-0006 32: 2020-07-07 54: JEWELLERY

57: The design is for an article of jewellery and, in particular, for a chain. The chain comprises a plurality of interlinked oval links. A lobster clasp is provided at a first free end of the chain. A jump ring is provided at a second oppositely located free end of the chain. Two jump rings are provided proximate the second free end, wherein adjacent jump rings are separated from each other with a section of chain. An elongate plate insert is included in the chain. Each free end of the plate insert is connected to an adjacent oval link via a jump ring. A ball pendant is included in the chain. A bail connected to the ball pendant is connected to two oval links via two jump rings.



- 21: A2020/01692 22: 2020-12-23 23:
- 43: 2020-07-07
- 52: Class 11 24: Part A
- 71: Daniel Wellington AB
- 33: EM(SE) 31: 008032502-0009 32: 2020-07-07

54: JEWELLERY

57: The design is for an article of jewellery and, in particular, for a two band ring. The two bands are arranged parallel to each other and are spaced from each other. The bands are integrally connected with two spaced elongate connectors. Each band has a generally square cross-sectional outline with chamfered operatively outer edges. The wording "DANIEL WELLINGTON" is provided on an inner surface of one band.



Figure 1

Three-dimensional view

- 21: A2020/01693 22: 2020-12-23 23:
- 43: 2020-07-07
- 52: Class 11 24: Part A
- 71: Daniel Wellington AB
- 33: EM(SE) 31: 008032502-0010 32: 2020-07-07 54: JEWELLERY

57: The design is for an article of jewellery and, in particular, for a two band ring. The two bands are arranged parallel to each other and are spaced from each other. The bands are integrally connected with two spaced elongate connectors. Each band has a generally square cross-sectional outline with chamfered operatively outer edges.



Figure 1

Three-dimensional view

- 21: A2020/01694 22: 2020-12-23 23:
- 43: 2020-07-07
- 52: Class 11 24: Part A
- 71: Daniel Wellington AB
- 33: EM(SE) 31: 008032502-0011 32: 2020-07-07
- 54: JEWELLERY

57: The design is for jewellery and in particular for a hoop earring. The earring comprises a convexly curved semi-circular body with chamfered edges. The body includes two spaced apart bands that curve along an arc of the body. A central portion of the body includes spaced apart letters that extend along the arc and spell out the words Daniel Wellington. An elongate member projects outwardly from a top wall of the body. The elongate member includes a notched portion towards a free end, the free end being convexly curved.



Figure 1 Three-dimensional view

21: A2020/01695 22: 2020-12-23 23:

43: 2020-07-07

curved.

- 52: Class 11 24: Part A
- 71: Daniel Wellington AB
- 33: EM(SE) 31: 008032502-0012 32: 2020-07-07 54: JEWELLERY

57: The design is for jewellery and in particular for a hoop earring. The earring comprises a convexly curved semi-circular body with chamfered edges. The body includes two spaced apart bands that curve along an arc of the body. An elongate member projects outwardly from a top wall of the body. The elongate member includes a notched portion

towards a free end, the free end being convexly



- 21: A2020/01696 22: 2020-12-23 23:
- 43: 2020-07-07
- 52: Class 11 24: Part A
- 71: Daniel Wellington AB

33: EM(SE) 31: 008032502-0017 32: 2020-07-07 54: JEWELLERY

57: The design is for jewellery and in particular for a hoop earring. The earring comprises a convexly curved semi-circular body with chamfered edges. The body includes spaced apart letters that extend along an arc of the body and spell out the words Daniel Wellington. An elongate member projects outwardly from a top wall of the body. The elongate member includes a tapered portion towards a free end, the free end being convexly curved.



Figure 1

Three-dimensional view

21: A2020/01697 22: 2020-12-23 23:

43: 2020-07-07

52: Class 11 24: Part A

71: Daniel Wellington AB

33: EM(SE) 31: 008032502-0018 32: 2020-07-07 54: JEWELLERY

57: The design is for jewellery and in particular for a hoop earring. The earring comprises a convexly curved semi-circular body with chamfered edges. An elongate member projects outwardly from a top wall of the body. The elongate member includes a notched portion towards a free end, the free end being convexly curved.



Figure 1

Three-dimensional view

21: A2020/01698 22: 2020-12-23 23:

43: 2021-07-06

52: Class 13. 24: Part A

71: APPLE INC.

33: US 31: 29/739,332 32: 2020-06-24

54: Charger

57: The design relates to a charger. The features of the design are those of shape and/or configuration and/or ornamentation.



TOP FRONT PERSPECTIVE VIEW

21: A2020/01699 22: 2020-12-23 23: 43: 2021-07-06 52: Class 13. 24: Part A 71: APPLE INC. 33: US 31: 29/739,333 32: 2020-06-24

54: Charger

57: The design relates to a charger. The features of the design are those of shape and/or configuration and/or ornamentation.



TOP PERSPECTIVE VIEW

21: A2021/00030 22: 2021-01-21 23: 43: 2021-08-23 52: Class 23 24: Part A 71: HANSGROHE SE 33: EU 31: 008080774-0001 32: 2020-08-05 **54: FAUCET**

57: The features of the design for which protection is claimed are those of the shape and/or configuration of the faucet substantially as illustrated in the accompanying drawing.



- 21: A2021/00038 22: 2021-01-21 23:
- 43: 2021-08-23
- 52: Class 22 24: Part A
- 71: Eagle Eye Bird Control Trust
- **54: BIRD RÉPELLENT DEVICE**

57: The design relates to a Bird repellent device. The features of the design are those of shape and/or pattern and/or configuration and/or ornamentation.



21: A2021/00045 22: 2021-01-26 23:

- 43: 2021-08-19
- 52: Class 22 24: Part A
- 71: BOARDMAN, William James Mayhew
- **54: INSECT TRAP COMPONENT**

57: The design relates to a Insect Trap Component. The features of the design are those of shape and/or pattern and/or configuration and/or ornamentation.



21: A2021/00088 22: 2021-02-04 23: 43: 2021-09-13 52: Class 23 24: Part A

- 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 and/or ornamentation.



21: A2021/00154 22: 2021-02-16 23: 43: 2021-09-13 52: Class 22 24: Part A

71: Jacobus Adriaan Ritchie

54: SHOT IMPACT INDICATOR

57: The design relates to a Shot impact indicator.

The features of the design are those of shape and/or pattern and/or configuration.



21: A2021/00156 22: 2021-02-17 23:

43: 2021-09-13

52: Class 12 24: Part A

71: WMM MEDIA (PTY) LTD

54: MOTORCYCLE DELIVERY BOX

57: The design relates to a Motorcycle delivery box. The features of the design are those of shape and/or pattern and/or configuration and/or ornamentation.



- 21: A2021/00166 22: 2021-02-19 23:
- 43: 2021-09-13
- 52: Class 7 24: Part A
- 71: Riaan Oelofsen
- 54: BARBECUE ACCESSORY

57: The design relates to a Barbecue accessory. The features of the design are those of shape and/or pattern and/or configuration and/or ornamentation.



21: A2021/00959 22: 2021-08-12 23: 43: 2021-08-17

52: Class 19 24: Part A

71: Cover My Books (Proprietary) Limited

54: PAGE OF AN EXERCISE BOOK

57: The features of the design for which protection is sought are those features of shape and/or configuration and/or pattern or ornament applied to the page of an exercise book shown in the representations.

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- 21: A2021/00962 22: 2021-08-13 23:
- 43: 2021-08-17
- 52: Class 19 24: Part A
- 71: Cover My Books (Proprietary) Limited

54: PAGE OF AN EXERCISE BOOK

57: The features of the design for which protection is sought are those features of shape and/or configuration and/or pattern or ornament applied to the page of an exercise book shown in the representations.



21: A2021/00964 22: 2021-08-13 23:

- 43: 2021-08-17
- 52: Class 19 24: Part A
- 71: Cover My Books (Proprietary) Limited

54: PAGE OF AN EXERCISE BOOK

57: The features of the design for which protection is sought are those features of shape and/or configuration and/or pattern or ornament applied to the page of an exercise book shown in the representations.





- 21: F2020/00155 22: 2020-02-10 23:
- 43: 2021-04-15
- 52: Class 07 24: Part F
- 71: UNBRIDLED TRADING 6 CC

54: BARBECUE

57: The features of the design for which novelty is claimed are the shape and / or configuration and / or pattern of a BARBECUE as shown in the accompanying representations.

21: F2019/01871 22: 2019-12-17 23: 43: 2021-09-13 52: Class 23 24: Part F

71: ADMIRE CHAENDERA

54: WATER FILTER

57: The features of the design for which protection is claimed reside in the shape of the water filter and the filter cartridge assembly. The water filter casing protrudes sideways in both directions allowing for sufficient area for filtration and a smaller diameter to turn inside constrained spaces. A low-cost filter cartridge can be adopted as the required rigidity would be provided by the tight-fitting housing consisting of the shoulders on the mouth of the lower casing and the incorporated perpendicular beams. The provided support prevents the gel curving-in and getting damaged. Also, large filter casing volume provide usable spaces



3D VIEW

- 21: F2020/00162 22: 2020-02-11 23:
- 43: 2021-04-15
- 52: Class 23 24: Part F
- 71: UNBRIDLED TRADING 6 CC

54: FIREPLACE

57: The features of the design for which novelty is claimed are the shape and / or configuration and / or pattern of a FIREPLACE as shown in the accompanying representations.



3D VIEW

21: F2020/00922 22: 2020-07-01 23: 43: 2021-04-15

52: Class 23 24: Part F

71: FOUCHE, HENDRIK S V D M

54: HYGIENIC DEVICE FOR CONTAINER

57: The features of the design for which novelty is claimed are the shape and / or configuration and / or pattern of a HYGIENIC DEVICE FOR CONTAINER as shown in the accompanying representations.

marked "Y" is also disclaimed.



IN USE

21: F2020/01121 22: 2020-08-17 23: 43: 2021-06-18

52: Class 23 24: Part F

71: Van Zyl, Steff

54: FIRE STARTING DEVICE

57: The features of the design for which novelty is claimed are the shape and/or configuration and/or pattern of a fire starting device as shown in the accompanying representations.



3D VIEW

21: F2020/01031 22: 2020-07-28 23: 43: 2021-04-15

52: Class 23 24: Part F

71: HENNINGS, CRAIG ANTHONY

54: SPRINKLER HOUSING

57: The features of the design for which novelty is claimed are the shape and / or configuration and / or pattern of a SPRINKLER HOUSING as shown in the accompanying representations. The sprinkler marked as "X" is disclaimed and any branding

21: F2020/01162 22: 2020-08-27 23:

43: 2021-04-22

52: Class 06 24: Part F

71: MARSH, Richard, MARSH, Sharee

54: ADJUSTABLE PILLOW INSERT

57: The features of the design for which protection is claimed reside in the shape and/or configuration of the adjustable pillow insert substantially as shown in the accompanying representations. The adjustable pillow insert promotes better sleeping posture in users and includes three stackable elements which are inserted into a suitable pillow cover and may be used to adjust the height of the pillow.



21: F2020/01240 22: 2020-09-17 23: 43: 2021-05-24

- 52: Class 07 24: Part F
- 71: DE BEER, STEPHAN

54: BARBECUE TOOL

57: The features of the design for which novelty is claimed are the shape and / or configuration and / or pattern of a barbecue tool as shown in the accompanying representations





SECOND PERSPECTIVE VIEW

- 21: F2020/01362 22: 2020-10-15 23:
- 43: 2021-06-21
- 52: Class 25 24: Part F
- 71: DE BEER, JANNIE
- **54: COLLAPSIBLE BARRIER**

57: The features of the design for which novelty is claimed are the shape and / or configuration and / or pattern of a Collapsible Barrier as shown in the accompanying representations.



21: F2020/01427 22: 2020-11-05 23:

43: 2021-06-02

52: Class 09 24: Part F

71: Kyle Gradus-Samson

54: EGG PACKAGING SLEEVE

57: The features of the design for which novelty is claimed are the shape and / or configuration and / or pattern of a egg packaging sleeve as shown in the accompanying representations.



- 21: F2020/01593 22: 2020-12-08 23:
- 43: 2021-07-25

52: Class 24 24: Part F

71: UKU HAMBA (PTY) LTD

54: PROSTHETIC LEG

57: The design is applied to a prosthetic leg. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the prosthetic leg, substantially as illustrated in the accompanying representation. Colour and colour combinations do not form part of the design and are disclaimed.



21: F2020/01602 22: 2020-12-10 23: 43: 2021-07-23 52: Class 06 24: 71: MYDINKY (PTY) LIMITED 54: FOLDABLE STEP/TABLE

57: The design is to be applied to a foldable step/stool/table. The features of the design for which protection is claimed reside in the shape and/or configuration and/or ornamentation substantially as illustrated in the accompanying representations.



PERSPECTIVE VIEW FROM BELOW OF FOLDABLE STEP/STOOL/TABLE IN OPERATIVE CONFIGURATION

- 21: F2020/01645 22: 2020-12-18 23:
- 43: 2021-07-21
- 52: Class 12 24:

71: BIG COUNTRY MANUFACTURING (PTY) LTD 54: A MEMBER OF A LOAD BIN COVER

57: The design is applied to a member of a vehicle load bin cover. The features of the design for which protection is claimed include the shape and/or configuration of the member of a load bin cover substantially as illustrated in the accompanying drawings.



21: F2020/01646 22: 2020-12-18 23: 43: 2021-07-21

52: Class 12 24:

71: BIG COUNTRY MANUFACTURING (PTY) LTD 54: A MEMBER OF A LOAD BIN COVER

57: The design is applied to a member of a vehicle load bin cover. The features of the design for which protection is claimed include the shape and/or configuration of the member of a load bin cover substantially as illustrated in the accompanying drawings.



21: F2020/01657 22: 2020-12-21 23: 43: 2021-07-21

52: Class 07 24: Part F

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: F2021/00037 22: 2021-01-21 23:
- 43: 2021-08-23
- 52: Class 22 24: Part F
- 71: Eagle Eye Bird Control Trust
- **54: BIRD REPELLENT DEVICE**

57: The design relates to a Bird repellent device. The features of the design are those of shape and/or pattern and/or configuration.



- 21: F2021/00046 22: 2021-01-26 23:
- 43: 2021-08-19
- 52: Class 22 24: Part F
- 71: BOARDMAN, William James Mayhew
- 54: INSECT TRAP COMPONENT

57: The design relates to a Insect Trap Component. The features of the design are those of shape and/or pattern and/or configuration.



21: F2021/00090 22: 2021-02-04 23: 43: 2021-09-13 52: Class 23 24: Part F 71: ACL Familietrust **54: GUTTER** 57: The design relates to a Gutter. Th

57: The design relates to a Gutter. The features of the design are those of shape and/or pattern and/or configuration.



21: F2021/00157 22: 2021-02-17 23: 43: 2021-09-13

52: Class 12 24: Part F

71: WMM MEDIA (PTY) LTD

54: MOTORCYCLE DELIVERY BOX

57: The design relates to a Motorcycle delivery box. The features of the design are those of shape and/or pattern and/or configuration.



- 21: F2021/00167 22: 2021-02-19 23:
- 43: 2021-09-13

52: Class 07 24: Part F

71: Riaan Oelofsen

54: BARBECUE ACCESSORY

57: The design relates to a Barbecue accessory. The features of the design are those of shape and/or pattern and/or configuration.



- 21: F2021/00960 22: 2021-08-12 23:
- 43: 2021-08-17

52: Class 19 24: Part F

71: Cover My Books (Proprietary) Limited

54: PAGE OF AN EXERCISE BOOK

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 page of an exercise book shown in the representations.





21: F2021/00961 22: 2021-08-12 23:

71: Cover My Books (Proprietary) Limited **54: PAGE OF AN EXERCISE BOOK**

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 page of an exercise book shown in the representations.

21: F2021/00963 22: 2021-08-13 23:

- 43: 2021-08-17
- 52: Class 19 24: Part F
- 71: Cover My Books (Proprietary) Limited

54: PAGE OF AN EXERCISE BOOK

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 page of an exercise book shown in the representations.

^{43: 2021-08-17}

^{52:} Class 19 24: Part F

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HYPOTHECATIONS

No records available

JUDGMENTS

No records available

OFFICE PRACTISE NOTICES

No records available

4. COPYRIGHT

COPYRIGHT IN CINEMATOGRAPH FILMS

NOTICES OF ACCEPTANCE

(Applications filed in terms of Act No. 62 of 1977)

Any person, who has grounds for objection to the registration of the copyright in any of the following cinematographs films, may within the prescribed time, lodge Notice of Opposition on Form RF 5 contained in the Second Schedule to the Registration of Copyright in Cinematograph Films Regulations, 1980. The prescribed time is one month after the date of advertisement. This period may on application be extended by the Registrar.

The numerical denote the following: (21) Official application number. (22) Date of application. (43) Date of acceptance. (24) Date(s) and place(s) at which cinematograph films was made. (25) Date and place of first publication. (71) Name (s) of all applicant (s). (75) Name of author. (76) Name of producer (77) Name of director (54) Title of cinematograph film. (78) Name(s) of principal players or narrator. (26) Places at which cinematograph film may be viewed and conditions. (55) Specimen lodged/Not lodged. (56) Preview requested/Not requested. (57) Abstract (Storyline). (58) Category.

21: 2021/00002. 22: 04/08/2021 43: 04/08/2021 24: 2020/02/04 to 2020/03/07; East London 25: 2020/12/06; Gelos Film Festival 71: Boondogle Film CC 6 Lee Road, Claremont, 7708, South Africa 75: Meg Rickards and Paul Egan6 Lee Road, Claremont, ZA, 7708, Phone: 0781815259, Email: meg@boondogle.co.za 76: Paul Egan; Meg Rickards 77: Meg Rickards 54: Kaalgat Karel 78: Francois Jacobs; Schalk Bezuidenhout 26: Gelos Film Festival 55: Specimen lodged/Not lodged.

56: Preview Requested/Not requested

57: hapless streaker, seeking to win the heart of a strait-laced single mom, must find a way to bear his soul rather than his buttocks.

58: CO

21: 2021/00003. 22: 2021/08/19 43: 2021/08/19 24: 2021/01/20 to 2021/03/31; JOHANNESBURG 25: 2021/04/11; SABC 1 71: ZINC PICTURES PROPRIETARY LIMITED THE MAIN CHANGE BUILDING, 20 KRUGER STREET, JOHANNESBURG, 2094, South Africa 75: THINA ZIBITHE MAIN CHANGE BUILDING, 20 KRUGER STREET, JOHANNESBURG, ZA, 2094, Phone: 0606785604, Email: hey@zincpcitures.com 76: KHANYI MAKOE 77: THINA ZIBI

54: **BOMPI**

78: TLOTLO MATSIPA, AYANDA SEOKA, DORRIS PAPOLE, PORTIA MABALA

26: SABC 1

55: Specimen lodged/Not lodged.

56: Preview Requested/Not requested

57: Fezi, a withdrawn private nurse, has her world challenged and turned upside down when her 14 year old neighbour's daughter chooses her apartment as her safe place to wait for her negligent mother.

58: DR

21: 2021/00004. 22: 2021/08/19 43: 2021/08/19 24: 2021/01/11 to 2021/03/31; JOHANNESBURG 25: 2021/04/04: SABC 1 71: ZINC PICTURES PROPRIETARY LIMITED THE MAIN CHANGE BUILDING, 20 KRUGER STREET, JOHANNESBURG, 2094, South Africa 75: BOITUMELO MODISETHE MAIN CHANGE BUILDING, 20 KRUGER STREET, JOHANNESBURG, ZA, 2094, Phone: 0606785604, Email: hey@zincpictures.com 76: KHANYI MAKOE 77: BOITUMELO MODISE 54: MATLA 78: ANGIE SENWAMERE, SHERLDON MAREMA, ZIMKITHA KUMBACA, MANDLA GADUKA 26: SABC 1 55: Specimen lodged/Not lodged. 56: Preview Requested/Not requested 57: A reclusive young woman, Matshidiso, finds

herself in hospital following the news that her sister, Matla, has committed suicide. Suspecting foul

play, Matshidiso goes on a journey to find out what really happened to Matla.

58: DR

21: 2021/00005. 22: 2021/08/19 43: 2021/08/19 24: 2021/02/05 to 2021/03/31; JOHANNESBURG 25: 2021/05/09; SABC 1 71: ZINC PICTURES PROPRIETARY LIMITED THE MAIN CHANGE BUILDING, 20 KRUGER STREET, JOHANNESBURG, 2094, South Africa 75: SUNNI FABATHE MAIN CHANGE BUILDING, 20 KRUGER STREET, JOHANNESBURG, ZA, 2094, Phone: 0606785604, Email: hey@zincpictures.com 76: KHANYI MAKOE 77: SUNNI FABA 54: EBUMNYAMENI 78: AMANDA QUWE, YONELA DUZE, SIMPHIWE MINI, ABONGILE SALI 26: SABC 1 55: Specimen lodged/Not lodged. 56: Preview Requested/Not requested 57: A tormented mother struggles under a dark cloud of depression brought on by guilt. She blames herself for a loss in her family and decides that taking her own life will not only free her from her pain, but also give reprieve to her grief-stricken family.

58: DR

21: 2021/00006, 22: 2021/08/19 43: 2021/08/19 24: 2021/01/26 to 2021/03/31; JOHANNESBURG 25: 2021/04/25; SABC 1 71: ZINC PICTURES PROPRIETARY LIMITED THE MAIN CHANGE BUILDING, 20 KRUGER STREET, JOHANNESBURG, 2094, South Africa 75: LOREN BUCHNERTHE MAIN CHANGE BUILDING, 20 KRUGER STREET, JOHANNESBURG, ZA, 2094, Phone: 0606785604, Email: hey@zincpictures.com 76: KHANYI MAKOE 77: LOREN BUCHNER 54: THE HAUNTING OF MARIA SMIT 78: EMMA TOLLMAN, MARC WYATT, ONELE SITHISHI 26: SABC 1 55: Specimen lodged/Not lodged. 56: Preview Requested/Not requested

57: A delusional Roman Catholic housewife, Maria Smit's, picturesque life with her husband, Christo, in the busy suburbs of Johannesburg is shattered when she is haunted by the vengeful ghost of her domestic worker, Ayanda.

58: DR

21: 2021/00007. 22: 2021/08/19 43: 2021/08/19 24: 2021/02/16 to 2021/03/31; DURBAN 25: 2021/05/30; SABC 1 71: ZINC PICTURES PROPRIETARY LIMITED THE MAIN CHANGE BUILDING, 20 KRUGER STREET, JOHANNESBURG, 2094, South Africa 75: EMMA TOLLMANTHE MAIN CHANGE BUILDING, 20 KRUGER STREET, JOHANNESBURG, ZA, 2094, Phone: 0606785604, Email: hev@zincpictures.com 76: KHANYI MAKOE 77: EMMA TOLLMAN 54: TORNS 78: SISI MBOMBO, NOLULAMO MAQUTHU 26: SABC 1 55: Specimen lodged/Not lodged. 56: Preview Requested/Not requested 57: A ballerina dancing amongst the thorns of withered roses and buried memories, Mbali can't smell the flowers. Another day, another prayer... another heavy sigh of grief. 58: DR 21: 2021/00008. 22: 2021/08/19 43: 2021/08/19 24: 2021/02/22 to 2021/03/31; DURBAN 25: 2021/05/30; SABC 1 71: ZINC PICTURES PROPRIETARY LIMITED THE MAIN CHANGE BUILDING, 20 KRUGER STREET, JOHANNESBURG, 2094, South Africa **75: TEMARA PREMTHE MAIN CHANGE** BUILDING, 20 KRUGER STREET, JOHANNESBURG, ZA, 2094, Phone: 0606785604, Email: hev@zincpictures.com 76: KHANYI MAKOE

- 77: TEMARA PREM
- 54: VALIANT ANNIE

78: LIANA HASSIM, ZAHIR BASSA, MICHEAL NIACKER, KESHAN CHETTY, VASHIL RAMDHAREE 26: SABC 1

- 55: Specimen lodged/Not lodged.
- 56: Preview Requested/Not requested

57: Trapped at home under lockdown because of a deadly virus plaguing the country, Annie Padayachee has no freedom from the confines of her home, as well as whom she shares it with.

58: DR

- 21: 2021/00009. 22: 2021/08/19 43: 2021/08/19
- 24: 2021/02/10 to 2021/03/31; JOHANNESBURG
- 25: 2021/05/23; SABC 1
- 71: ZINC PICTURES PROPRIETARY LIMITED

THE MAIN CHANGE BUILDING, 20 KRUGER STREET, JOHANNESBURG, 2094, South Africa 75: NTHABISENG MOSIEANETHE MAIN CHANGE **BUILDING, 20 KRUGER STREET, JOHANNESB** URG, ZA, 2094, Phone: 0606785604, Email: hey@zincpictures.com 76: KHANYI MAKOE 77: NTHABISENG MOSIEANE 54: OVERCOME BELOVED 78: NOXOLO DLAMINI, MBALI NTOMBELA, THEMBA MKHOMA, ASANDA MVUSI, BONGILE MANSTAL 26: SABC 1 55: Specimen lodged/Not lodged. 56: Preview Requested/Not requested 57: Nomhle an abused wife and mother has found temporary refuge with her teenage daughter Nandi in the safe house of Bab'Somandla. In this

home Nomhle lives in the present but her mind is stuck in the past, unable to reconnect with her daughter as time away from her husband causes Nomhle to sabotage every opportunity to move forward with her daughter, delaying their progress.

58: DR

21: 2021/00010. 22: 2021/08/19 43: 2021/08/19 24: 2021/02/10 to 2021/03/31; JOHANNESBURG 25: 2021/05/23; SABC 1 71: ZINC PICTURES PROPRIETARY LIMITED THE MAIN CHANGE BUILDING, 20 KRUGER STREET, JOHANNESBURG, 2094, South Africa 75: NTHABISENG MOSIEANETHE MAIN CHANGE BUILDING, 20 KRUGER STREET, JOHANNESB URG, ZA, 2094, Phone: 0606785604, Email: hev@zincpictures.com 76: KHANYI MAKOE 77: NTHABISENG MOSIEANE 54: THE RECKONING 78: NOXOLO DLAMINI, MBALI NTOMBELA, THEMBA MKHOMA, ASANDA MVUSI, BONGILE MANSTAL 26: SABC 1 55: Specimen lodged/Not lodged. 56: Preview Requested/Not requested 57: Nomhle an abused wife and mother has found temporary refuge with her teenage daughter Nandi in the safe house of Bab'Somandla. In this home Nomhle lives in the present but her mind is stuck in the past, unable to reconnect with her daughter as time away from her husband causes Nomhle to sabotage every opportunity to move forward with her daughter, delaying their progress. 58: DR

21: 2021/00011. 22: 2021/08/20 43: 2021/08/20

24: 2021/01/21 to 2021/03/31; JOHANNESBURG 25: 2021/04/18; SABC 1 71: ZINC PICTURES PROPRIETARY LIMITED THE MAIN CHANGE BUILDING, 20 KRUGER STREET, JOHANNESBURG, 2094, South Africa 75: ATHI PETELATHE MAIN CHANGE BUILDING, 20 KRUGER STREET, JOHANNESBURG, ZA, 2094, Phone: 0606785604, Email: hey@zincpictures.com 76: KHANYI MAKOE 77: ATHI PETELA 54: TRAPPED 78: ZOLA NOMBONA, THISHIWE ZIQHUBU. THAMI DISH, AMANDA QUWE 26: SABC 1 55: Specimen lodged/Not lodged. 56: Preview Requested/Not requested 57: Ayanda's double life comes crashing down around her when a surprise visit from her mom

upsets the carefully built closet she hides in. Torn between traditional family and career expectations, Ayanda tears her relationship apart. Somewhere in the heart of it all acceptance is found.

58: DR

21: 2021/00012. 22: 2021/08/20 43: 2021/08/20 24: 2021/02/01 to 2021/03/31; JOHANNESBURG 25: 2021/05/01; SABC 1 71: ZINC PICTURES PROPRIETARY LIMITED THE MAIN CHANGE BUILDING, 20 KRUGER STREET, JOHANNESBURG, 2094, South Africa 75: NYEMBEZI WAKOTHE MAIN CHANGE BUILDING, 20 KRUGER STREET, JOHANNESBURG, ZA, 2094, Phone: 0606785604, Email: hev@zincpictures.com 76: KHANYI MAKOE 77: NYEMBEZI WAKO 54: ON ISIBINDI STREET 78: DINEO MOUMAKOE, THUBA NCUBE, KELEBOGILE RAMAGOGODI, YULE MASITENG, EMMA TOLLMAN 26: SABC 1 55: Specimen lodged/Not lodged. 56: Preview Requested/Not requested 57: Sindisiwe used to live with her mother but now that she's died, she must live with her older brother Mandla who moves in with his own rules and plans. But Mandla is owing people and he wants to sell the house to pay his debts while Sindisiwe would like to

58: DR

save it.

21: 2021/00013. 22: 2021/09/13 43: 2021/09/13 24: 2018/06/13 to 2018/08/31; JOHANNESBURG

25: 2019/09/08; SABC 1

71: ZINC PICTURES PROPRIETARY LIMITED THE MAIN CHANGE BUILDING, 20 KRUGER STREET, JOHANNESBURG, 2094, South Africa 75: ROXANNE HARRISTHE MAIN CHANGE BUILDING, 20 KRUGER STREET, JOHANNESBURG, ZA, 2094, Phone: 0606785604, Email: hey@zincpictures.com 76: TSHEGO MOLETE KHANYILE 77: ROXANNE HARRIS 54: I WAS BLIND

78: TARRYN WYNGARRD, SISANDA HENNA, OFENTSE MABUYA, NICHOLAS KING, NIEL ABEL 26: SABC 1

55: Specimen lodged/Not lodged.

56: Preview Requested/Not requested

57: Just as Amelia's dream of becoming a filmmaker starts to become a reality, she is diagnosed with a degenerative eye disease that takes away her sight. It is however this loss of sight that awakens Amelia's true potential. She writes a film script about living with blindness as a form of self therapy. The script is snatched up by a studio after Amelia's film director fiancé, Ben, realizes the potential for the film and pitches himself as director. Amelia and Ben are at the studios meeting with the financiers to pitch the film. Soon the pitch goes horribly wrong and Amelia must fight to save her film. She makes a bold move during the film pitch as she realizes that she is the only person who can direct her story.

58: DR

21: 2021/00014, 22: 2021/09/13 43: 2021/09/13 24: 2018/06/06 to 2018/08/31; JOHANNESBURG 25: 2019/09/01: SABC 1 71: ZINC PICTURES PROPRIETARY LIMITED THE MAIN CHANGE BUILDING, 20 KRUGER STREET, JOHANNESBURG, 2094, South Africa 75: SARA CHITHAMBOTHE MAIN CHANGE BUILDING, 20 KRUGER STREET, JOHANNESBURG, ZA, 2094, Phone: 0606785604, Email: hey@zincpictures.com 76: TSHEGO MOLETE KHANYILE 77: SARA CHITHAMBO 54: CECILIA'S ESCAPE 78: LUMIERE OKANGA, ROSE ATIBU, FRANCK MULENGA, DAMIAN NGEMA, WENDY MLANGENI, HELEN LEBEPE 26: SABC 1 55: Specimen lodged/Not lodged. 56: Preview Requested/Not requested 57: Dealing with themes of courage, identity, loss and self-acceptance this coming of age short film centres around 16 year old Cecilia, the youngest

child of a close-knit Congolese family living in Yeoville, Johannesburg. Following the death of her father, she is increasingly sheltered by her religious and strict mother and over-protective brother. She feels trapped. The only other person she feels understands her is Nidia, the seamstress from the tailor shop whom she's promised to take to the dance without her mothers' knowledge. How will Cecilia navigate going against her mothers' wishes and fulfilling her promise?

58: DR

21: 2021/00015. 22: 2021/09/13 43: 2021/09/13 24: 2018/06/22 to 2018/08/31; JOHANNESBURG 25: 2019/09/15: SABC 1 71: ZINC PICTURES PROPRIETARY LIMITED THE MAIN CHANGE BUILDING, 20 KRUGER STREET, JOHANNESBURG, 2094, South Africa 75: BONGI NDABATHE MAIN CHANGE BUILDING, 20 KRUGER STREET, JOHANNESBURG, ZA, 2094, Phone: 0606785604, Email: hey@zincpictures.com 76: TSHEGO MOLETE KHANYILE 77: BONGI NDABA 54: MIRACLE 78: LINDA SOKHULU, BASETSANA TLALE, NTHATHI MOSHEH, ARNO MARAIS, THOMAS MAKHANYA, WILSON SHADDAI 26: SABC 1 55: Specimen lodged/Not lodged. 56: Preview Requested/Not requested 57: It is a story that explores the week in a life of a struggling, desperate single mother, Sisonke, who goes on a quest of absolution. She travels from church to church seeking a miracle for her daughter who has a mysterious disability. She has been doing this for years, but now it is not driven by faith but by a kind of wrath towards God. Underneath all of this determined, inexhaustible self-sacrificing quest to heat her daughter, Sisonke is trying to escape her guilt. Her journey doesn't end, she does not find what she is looking for, she does not learn to see that it may be closer than she, she continues, blinded by rage and guilt, to carry her daughter on

58: DR

burden.

21: 2021/00015. 22: 2021/09/13 43: 2021/09/13 24: 2018/06/22 to 2018/08/31; JOHANNESBURG 25: 2019/09/15; SABC 1 71: ZINC PICTURES PROPRIETARY LIMITED THE MAIN CHANGE BUILDING, 20 KRUGER STREET, JOHANNESBURG, 2094, South Africa

her back, hoping one day God will relieve her of the

75: BONGI NDABATHE MAIN CHANGE BUILDING, 20 KRUGER STREET, JOHANNESBURG, ZA, 2094, Phone: 0606785604, Email: hey@zincpictures.com

76: TSHEGO MOLETE KHANYILE

77: BONGI NDABA

54: MIRACLE

78: LINDA SOKHULU, BASETSANA TLALE, NTHATHI MOSHEH, ARNO MARAIS, THOMAS MAKHANYA, WILSON SHADDAI 26: SABC 1

55: Specimen lodged/Not lodged.

56: Preview Requested/Not requested

57: It is a story that explores the week in a life of a struggling, desperate single mother, Sisonke, who goes on a quest of absolution. She travels from church to church seeking a miracle for her daughter who has a mysterious disability. She has been doing this for years, but now it is not driven by faith but by a kind of wrath towards God. Underneath all of this determined, inexhaustible self-sacrificing quest to heat her daughter, Sisonke is trying to escape her guilt. Her journey doesn't end, she does not find what she is looking for, she does not learn to see that it may be closer than she, she continues, blinded by rage and guilt, to carry her daughter on her back, hoping one day God will relieve her of the burden.

58: DR

21: 2021/00016. 22: 2021/09/13 43: 2021/09/13 24: 2018/06/28 to 2018/08/31; JOHANNESBURG 25: 2019/09/22; SABC 1 71: ZINC PICTURES PROPRIETARY LIMITED THE MAIN CHANGE BUILDING, 20 KRUGER STREET, JOHANNESBURG, 2094, South Africa 75: MAISHE MOSALATHE MAIN CHANGE BUILDING, 20 KRUGER STREET. JOHANNESBURG, ZA, 2094, Phone: 0606785604, Email: hey@zincpictures.com 76: TSHEGO MOLETE KHANYILE 77: MAISHE MOSALA 54: SHAKA'S MASK 78: SISANDA HENNA, KHANYA GREENS, EMMANUEL MOKGADI. TSHIRELETSO MOTHEBE, DIDINTLE KHUNOU 26: SABC 1 55: Specimen lodged/Not lodged. 56: Preview Requested/Not requested 57: Shaka, a privileged young man, from an affluent family is forced to run his family's business after his parents tragically passed away. The business is now facing bankruptcy under his management. Shaka does not want to be seen as a failure and does not want to lose his status, so he lies and pretends on

social media that his life is perfect. He uses social media to suppress his true reality and to escape his seemingly failing life. He owes people money and his business is about to be liquidated and he is insecure about his love life.

58: DR

21: 2021/00017. 22: 2021/09/13 43: 2021/09/13 24: 2018/07/13 to 2018/08/31; JOHANNESBURG 25: 2019/09/29; SABC 1 71: ZINC PICTURES PROPRIETARY LIMITED THE MAIN CHANGE BUILDING, 20 KRUGER STREET, JOHANNESBURG, 2094, South Africa 75: PALESA LEBONATHE MAIN CHANGE BUILDING, 20 KRUGER STREET, JOHANNESBURG, ZA, 2094, Phone: 0606785604, Email: hey@zincpictures.com 76: TSHEGO MOLETE KHANYILE 77: PALESA LEBONA 54: SLUMBER PARTY 78: KELEBOGILE KHUDGE, AMIEE BOTES, XOLANI HENEMA, URSULA BOTHA, CHANERIAL KATISCHKA, TIFFANY MILLER 26: SABC 1 55: Specimen lodged/Not lodged. 56: Preview Requested/Not requested 57: South Africa has been plagued with a sordid past of institutionalized racial injustice for over a hundred years and in its 24th year of democracy racial bias continues to play a significant role on how people interact with one another, including teenagers. Thandi Ngema becomes the first and only black

teenager to be ever given an invitation for an all girls' sleepover at her best friend's house, Simone Barret. As the night progresses, their racial differences get brought to light and their friendship is tested. Will these differences strengthen or create an even greater divide between them? Only the night will tell.

58: DR

21: 2021/00018. 22: 2021/09/13 43: 2021/09/13 24: 2018/07/19 to 2018/08/31; DURBAN 25: 2019/09/22; SABC 1 71: ZINC PICTURES PROPRIETARY LIMITED THE MAIN CHANGE BUILDING, 20 KRUGER STREET, JOHANNESBURG, 2094, South Africa 75: GUGU KUNENETHE MAIN CHANGE BUILDING, 20 KRUGER STREET, JOHANNESBURG, ZA, 2094, Phone: 0606785604, Email: hey@zincpictures.com 76: TSHEGO MOLETE KHANYILE 77: GUGU KUNENE 54: **THE TRUTH**

78: THEMBELIHLE DHLOMO, PEARL KUNENE, PHUMZILE LUHOZI, LUNGELO GUMEDE, ACQUILILA MANLINGA
26: SABC 1
55: Specimen lodged/Not lodged.
56: Preview Requested/Not requested

57: A story about a young lady who finally reveals the truth about what happened to her years after she left home. The truth finally sets her free.

58: DR

21: 2021/00019. 22: 2021/09/13 43: 2021/09/13 24: 2018/06/18 to 2018/08/31; JOHANNESBURG 25: 2019/10/13; SABC 1 71: ZINC PICTURES PROPRIETARY LIMITED THE MAIN CHANGE BUILDING, 20 KRUGER STREET, JOHANNESBURG, 2094, South Africa 75: JENNIFER PACKTHE MAIN CHANGE BUILDING, 20 KRUGER STREET, JOHANNESBURG, ZA, 2094, Phone: 0606785604, Email: hey@zincpictures.com

76: TSHEGO MOLETE KHANYILE

77: JENNIFER PACK

54: UNKNOWN NO

78: SOPHIE KIRSCH, CODY MOUNTAIN, JAUN DE JAGER, NEIL ABEL, LURDES MASAWANGANYI, CAMERON SCOTT, DAMIAN NGEMA 26: SABC 1

55: Specimen lodged/Not lodged.

56: Preview Requested/Not requested

57: Three seemingly connected women expect a regular Friday night only to be confronted with distressing sexual conundrums. After having one to many drinks, Jane lands in an awkward situation with a good friend. When she tries to politely reject him, his true intentions are revealed.

58: DR

21: 2021/00020. 22: 2021/09/13 43: 2021/09/13 24: 2018/06/04 to 2018/08/31; JOHANNESBURG 25: 2019/10/20; SABC 1 71: ZINC PICTURES PROPRIETARY LIMITED THE MAIN CHANGE BUILDING, 20 KRUGER STREET, JOHANNESBURG, 2094, South Africa 75: AMBER NDLELATHE MAIN CHANGE BUILDING, 20 KRUGER STREET, JOHANNESBURG, ZA, 2094, Phone: 0606785604, Email: hey@zincpictures.com 76: TSHEGO MOLETE KHANYILE 77: AMBER NDLELA 54: UYE & KHOLI 78: BONGI NDABA, MATSHEPO SEKGOPI, GALAETSANG KOFFMAN, WANDA MAKAULA, ANDILE MHLONGO, LIHLE SHOBA, LUSAPHO

GQOBO

26: SABC 1

- 55: Specimen lodged/Not lodged.
- 56: Preview Requested/Not requested

57: In the amber mountainous landscape of KZN, we are drawn into the world of two young sisters coming back from school. A passive Uye and aggressive Kholi fight over Uye's refusal to accept the way things are. Their mother is never coming back! They've both had enough, Kholi needs a moment and leaves. When she is swallowed by the forest, Uve delves in deeper to look for her. Knowing very well, that the place is dangerous. There is a witch that lives here. She carelessly exposes herself to the dangers and is being followed. Wandering for a while, Uye is no closer to finding Kholi, nor direction in the forest. A strange and silent companion, Khono, reveals herself. Drawn to Uye by her deep sense of curiosity, Khono joins Uye in looking for her sister.

58: DR

21: 2021/00021, 22: 2021/09/13 43: 2021/09/13 24: 2018/07/10 to 2018/08/31: DURBAN 25: 2019/10/06; SABC 1 71: ZINC PICTURES PROPRIETARY LIMITED THE MAIN CHANGE BUILDING, 20 KRUGER STREET, JOHANNESBURG, 2094, South Africa 75: KWAZIKWENKOSI NTOMBELATHE MAIN CHANGE BUILDING, 20 KRUGER STREET, JOHANNESBURG, ZA, 2094, Phone: 0606785604, Email: hey@zincpictures.com 76: TSHEGO MOLETE KHANYILE 77: KWAZIKWENKOSI NTOMBELA 54: UMPHEFUMULO 78: MAKGOTSO MONYEMOKATHE, VUSI MSWELI, BONISIWE NTOMBELA, SBONGILE NENE, LWAZI OGANA, MINENHLE DLANGAMANDLA 26: SABC 1 55: Specimen lodged/Not lodged. 56: Preview Requested/Not requested 57: Nomalanga, a beautiful young woman who has to come to terms with her tragic death. Her soul lingers in the same house her body lays pale, bruised and decomposing. As she struggles to let go of what was before. Her ancestors are calling her to come home. In her mind she has not come to term with leaving the place of her death to join her ancestors on the other side which is much more welcoming, peaceful for her soul. 58: DR

HYPOTHECATIONS

No records available

JUDGMENTS

No records available

OFFICE PRACTISE NOTICES

No records available

5. CORRECTION NOTICES

TRADE MARK CORRECTION NOTICES

No records available

PATENT CORRECTION NOTICES

The patent restoration application number **2014/07797** was advertised in the June 2021 Journal with an incorrect application number which appeared as **(204/07797)** instead of **2014/07797** and the date of lapse which appeared as **25/03/2016** and it should have appered as **25/11/2016**

However the date of publication will remain the **30 June 2021** and the opposition period remain to run from **30 June 2021**.

DESIGNS CORRECTION NOTICES

No records available

COPYRIGHT CORRECTION NOTICES

No records available

PATENTS

Advertisement List for September 2021

Number of Advertised Patents: 679

Application Number	Patent Title	Filing Date
2010/00845	ASSAYS	2010/02/04
2014/02491	ANTI IL-36R ANTIBODIES	2014/04/04
2015/00679	CONTAINER AND SET OF PREFORMS FOR FORMING A CONTAINER	2015/01/29
2015/00682	APPARATUS AND METHOD FOR AQUEOUS ORGANIC WASTE TREATMENT	2015/01/29
2015/00729	CONNECTING DEVICE AND TAPPING ASSEMBLY AS WELL AS A CONTAINER AND METHOD FOR BEVERAGE DISPENSING	2015/01/30
2015/00762	NOVEL PYRROLOPYRIMIDINE COMPOUNDS AS INHIBITORS OF PROTEIN KINASES	2015/02/02
2015/00853	METHOD FOR INTEGRATING AN ANTENNA WITH A VEHICLE FUSELAGE	2015/02/05
2015/00924	METHOD, APPARATUS AND SYSTEM FOR TRANSMITTING CONTROL INFORMATION	2015/02/09
2015/01128	AUTOMATIC INJECTION DEVICE	2015/02/18
2015/01159	METHOD FOR REMOVING SULPHATE, CALCIUM AND/OR OTHER SOLUBLE METALS FROM WASTE WATER	2015/02/19
2015/01457	FIBRONECTIN BASED SCAFFOLD DOMAIN PROTEINS THAT BIND TO MYOSTATIN	2015/03/03
2015/01523	METHOD FOR SURVEYING DRILL HOLES, DRILLING ARRANGEMENT, AND BOREHOLE SURVEY ASSEMBLY	2015/03/05
2015/01707	OPTOELECTRONIC DEVICE	2015/03/12
2015/02055	METHODS FOR PROCESSING ALLOYS	2015/03/25
2015/02057	GAS-FED FERMENTATION SYSTEMS	2015/03/25
2015/02242	MEDICAMENT DELIVERY DEVICE	2015/03/31
2015/02302	VIDEO CODING WITH IMPROVED RANDOM ACCESS POINT PICTURE BEHAVIORS	2015/04/07
2015/02430	ADHESIVE FUNCTIONAL STRIP FOR TRANSCUTANEOUS FLUORESCENCE MEASUREMENT	2015/04/10
2015/02457	ANTI-FIBROTIC PYRIDINONES	2015/04/13
2015/02778	GLYCOPROTEIN HORMONE LONG-ACTING SUPERAGONISTS	2015/04/23
2015/02996	HETEROCYCLIC COMPOUNDS AS PESTICIDES	2015/04/30
2015/03186	COMBINATION OF A 6-OXO-1,6-DIHYDRO- PYRIDAZINE DERIVATIVE HAVING ANTI-CANCER ACTIVITY WITH A MEK INHIBITOR	2015/05/08
2015/03357	UREA-CONTAINING MERCAPTOSILANES, PROCESS FOR PREPARATION THEREOF AND USE THEREOF	2015/05/14
2015/03653	DECODING DEVICE AND DECODING METHOD, AND CODING DEVICE AND CODING METHOD	2015/05/22
Application Number	Patent Title	Filing Date
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2015/03687	BAR SOAP COMPOSITION AND METHOD OF MANUFACTURE	2015/05/25
2015/03842	A HONEYCOMB STRUCTURE COMPRISING A MULTILAYER CEMENT SKIN	2015/05/28
2015/03976	NON-STAINING TOOTHPASTE	2015/06/03
2015/04024	COMPOSITION COMPRISING A DICARBOXYLIC ACID AND AN OIL, AND HAIR STRAIGHTENING PROCESS	2015/06/04
2015/04110	DOOR LOCK	2015/06/08
2015/04148	BAINITIC STEEL FOR ROCK DRILLING COMPONENT	2015/06/09
2015/04289	METHOD AND APPARATUS FOR DETERMINING ENCODING MODE, METHOD AND APPARATUS FOR ENCODING AUDIO SIGNALS, AND METHOD AND APPARATUS FOR DECODING AUDIO SIGNALS	2015/06/12
2015/04355	LIGNIN BASED COATING COMPOSITIONS	2015/06/17
2015/04433	IDENTITY INFORMATION SYSTEMS AND METHODS	2015/06/19
2015/04439	METHOD FOR PRODUCING REDUCED IRON	2015/06/19
2015/04504	CONTROL VALVE	2015/06/23
2015/04566	THERMOMECHANICAL PROCESSING OF HIGH STRENGTH NON-MAGNETIC CORROSION RESISTANT MATERIAL	2015/06/24
2015/04658	CINNAMIC ACID AMIDE DERIVATIVE	2015/06/26
2015/04663	COMPOSITIONS AND METHODS FOR DIAGNOSING THYROID TUMORS	2015/06/26
2015/04847	SENSOR, CONTROLLER AND SYSTEM	2015/07/06
2015/04873	BENZYLAMINE DERIVATIVES	2015/07/07
2015/05283	BALLISTIC PROTECTION TEXTILE CONSTRUCTION AND METHOD THEREFOR	2015/07/22
2015/05386	A METHOD FOR DETERMINING ACUTE RESPIRATORY DISTRESS SYNDROME (ARDS) RELATED BIOMARKERS, A METHOD TO MONITOR THE DEVELOPMENT AND TREATMENT OF ARDS IN A PATIENT	2015/07/27
2015/05733	VEHICLE SUSPENSION	2015/08/11
2015/05877	2,3-DISUBSTITUTED 1 -ACYL-4-AMINO-1,2,3,4- TETRAHYDROQUINOLINE DERIVATIVES AND THEIR USE AS BROMODOMAIN INHIBITORS	2015/08/14
2015/05909	COMPOUNDS AND PHARMACEUTICAL COMPOSITIONS THEREOF FOR THE TREATMENT OF INFLAMMATORY DISORDERS	2015/08/17
2015/06034	COMMUNICATION METHOD, DEVICE, AND SYSTEM	2015/08/20
2015/06037	METHODS AND COMPOSITIONS FOR TREATING CANCERS HAVING ACQUIRED RESISTANCE TO CHEMOTHERAPEUTIC AND TARGETED DRUGS USING CARBOXYAMIDOTRIAZOLE OROTATE	2015/08/20
2015/06478	SCALABLE MANUFACTURING PROCESS TO PRODUCE RECOMBINANT LENTIVIRAL VECTORS IN SERUM-FREE SUSPENSION CELL CULTURE	2015/09/03

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	SYSTEM	
2015/06581	ACELLULAR PERTUSSIS VACCINE	2015/09/07
2015/07053	ENGINE SPACER PLATE GASKET	2015/09/22
2015/08183	MINING MACHINE AND CHARGING STATION COMPRISING REFRIGERATION CIRCUITS	2015/11/05
2016/00095	ENHANCEMENT OF OSTEOGENIC POTENTIAL OF BONE GRAFTS	2016/01/06
2016/00648	NOVEL PYRROLOPYRIMIDINE COMPOUNDS AS INHIBITORS OF PROTEIN KINASES	2016/01/29
2016/03603	A VALVE	2016/05/26
2016/03924	COMPOSITIONS AND METHODS FOR VIRUS CONTROL IN VARROA MITE AND BEES	2016/06/09
2017/01545	MACROPINOCYTOSING HUMAN ANTI-CD46 ANTIBODIES AND TARGETED CANCER THERAPEUTICS	2017/03/02
2017/01733	HUMAN-DERIVED ANTI-DIPEPTIDE REPEATS (DPRS) ANTIBODY	2017/03/09
2017/01852	COMBINATION THERAPY OF INHIBITORS OF C-C CHEMOKINE RECEPTOR TYPE 9 (CCR9) AND ANTI-ALHA4BETA7 INTEGRIN BLOCKING ANTIBODIES	2017/03/15
2017/02053	METHODS AND COMPOSITIONS FOR INDUCING PROTECTIVE IMMUNITY AGAINST HUMAN IMMUNODEFICIENCY VIRUS INFECTION	2017/03/23
2017/02235	BISPECIFIC MOLECULES COMPRISING AN HIV-1 ENVELOPE TARGETING ARM	2017/03/30
2017/03501	CRYSTALLINE FORM OF (S)-N-(5-((R)-2-(2,5- DIFLUOROPHENYL)-PYRROLIDIN-1-YL)- PYRAZOLO[1,5-A]PYRIMIDIN-3-YL)-3- HYDROXYPYRROLIDINE-1-CARBOXAMIDE HYDROGEN SULFATE	2017/05/22
2017/07995	SHOCK-ABSORBING BARRIER USING PILLARS AND RAIL	2017/11/23
2017/08195	METHOD, MACHINE AND INSTALLATION FOR VACUUM PACKAGING OF PRODUCTS	2017/12/01
2017/08283	MARKED KEG/CASK SEAL, AND METHOD FOR DETERMINING THE AGE OF A KEG/CASK SEAL	2017/12/06
2018/01761	IN SITU CROSS-LINKABLE POLYSACCHARIDE COMPOSITIONS AND USES THEREOF	2018/03/15
2018/02019	HUMANIZED ANTI PSA (5A10) ANTIBODIES	2018/03/27
2018/02220	VALVE COUPLING HAVING CENTERING SUPPORT PROJECTIONS	2018/04/05
2018/02651	PREPARATION METHOD FOR ARYL SUBSTITUTED P-PHENYLENEDIAMINE SUBSTANCE	2018/04/20
2018/06234	CONNECTOR	2018/09/17
2018/06314	USING LUMA INFORMATION FOR CHROMA PREDICTION WITH SEPARATE LUMA-CHROMA FRAMEWORK IN VIDEO CODING	2018/09/20
2018/06404	NOVEL B7-H3 BINDING MOLECULES, ANTIBODY DRUG CONJUGATES THEREOF AND METHODS OF USE THEREOF	2018/09/26

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2018/06983	LEISURE EQUIPMENT AND EXPERIENCE SYSTEM	2018/10/19
2018/06984	INSURANCE SYSTEM	2018/10/19
2018/07076	DEVICE FOR OPENING AND CLOSING CONTAINER LIDS	2018/10/24
2018/07202	AN APTAMER, A METHOD OF PRODUCING AN ELECTROCHEMICAL APTASENSOR, AN APTASENSOR, AND AN APTASENSOR SYSTEM	2018/10/29
2018/07431	METHODS OF TREATING ACUTE MYELOID LEUKEMIA AND MULTIPLE MYELOMA USING NATURAL KILLER CELLS	2018/11/06
2018/07766	MACROCYCLIC MCL1 INHIBITORS FOR TREATING CANCER	2018/11/19
2019/00353	ANTI-PD-L1 ANTIBODIES	2019/01/17
2019/00664	T CELL RECEPTORS AND IMMUNE THERAPY USING THE SAME	2019/01/31
2019/00728	COLD IN-PLACE RECYCLING WITH HEATING ASSEMBLY INCLUDING A HEATER FOR ASPHALT CEMENT AND A HEAT-MODIFYING COMPONENT	2019/02/04
2019/00873	INTRAVENOUS CATHETER APPARATUS WITH SAFETY FUNCTION AND PRESSURE CONTROLLED VALVE ELEMENT	2019/02/11
2019/01343	MATTRESS	2019/03/04
2019/01430	THERAPEUTIC COMPOUNDS USEFUL FOR THE PROPHYLACTIC OR THERAPEUTIC TREATMENT OF AN HIV VIRUS INFECTION	2019/03/07
2019/01451	PUSHCHAIR ACCESSORY, AND A TRANSPORT ASSEMBLY COMPRISING A PUSHCHAIR AND SUCH AN ACCESSORY	2019/03/08
2019/01460	CIRCUIT BREAKER	2019/03/08
2019/01467	HYDROCARBON FLUID-WATER SEPARATION	2019/03/08
2019/01645	FOAMED POLYPROPYLENE COMPOSITION	2019/03/15
2019/01835	ANTI-GM-CSF ANTIBODIES AND USES THEREOF	2019/03/25
2019/01870	PROCESS FOR PRODUCING NONWOVEN	2019/03/26
2019/01941	APPARATUS AND METHOD FOR SORTING GEMSTONES	2019/03/28
2019/02027	CONTROLLABLE CSI-RS DENSITY	2017/12/07
2019/02064	HAMMERLESS SOLUTION	2017/09/15
2019/02065	A LINING ARRANGEMENT, AND A METHOD FOR FASTENING LINING ELEMENTS TO A SUPPORT STRUCTURE	2017/09/15
2019/02108	METHODS FOR THE TREATMENT OF ABNORMAL INVOLUNTARY MOVEMENT DISORDERS	2016/03/07
2019/02173	A WARNING SYSTEM	2019/04/08
2019/02285	DEFROSTING OF REFRIGERATION APPLIANCES	2019/04/11
2019/02306	ALUMINUM GRADIENT ALUMINOSILICATE ZEOLITE COMPOSITIONS	2017/10/02
2019/02338	METHOD AND SYSTEM FOR PRODUCING ETHYLENE AND ACETIC ACID	2019/04/12
2019/02342	HUMAN OTIC PROGENITOR IDENTIFICATION AND ISOLATION	2017/09/14
2019/02344	COMPOUNDS AND METHODS FOR ACTIVATING	2017/10/04

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2019/03764 SYNTHETIC LURES 2019/06/11	2019/03696	COMPOSITIONS FOR USE IN TREATING INFLAMMATORY BOWEL DISEASES AND INTESTINAL COLITIS	2019/06/10
	2019/03764	SYNTHETIC LURES	2019/06/11

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2019/03857	A STORAGE SOLUTION	2019/06/14
2019/03967	ADAM9-BINDING MOLECULES, AND METHODS OF USE THEREOF	2019/06/19
2019/04233	CURRENCY TYPE SWITCHING METHOD AND DEVICE	2017/12/25
2019/04467	FATALITY LEARNING SYSTEM AND METHOD	2019/07/08
2019/05456	PYRROLO[1,2-B]PYRIDAZINE DERIVATIVES	2019/08/19
2019/05507	METHOD OF FORMULATING A NUTRITIONAL SUPPLEMENT POWDER	2019/08/21
2019/05612	NEW POLYIMINO KETOALDEHYDES	2019/08/26
2019/05763	LIPOSOMAL COMPOSITIONS AND SOLID ORAL DOSAGE FORMS COMPRISING THE SAME	2019/08/30
2019/06025	METHOD FOR DETECTING RAPE SEED CARRYING LEPTOSPHAERIA SP.	2019/09/12
2019/06092	A WATER PUMP AND WATER SUPPLY APPARATUS	2019/09/16
2019/06349	SAFETY VALVE WITH METAL ELEMENTS FOR GAS CARTRIDGE	2019/09/26
2019/06651	ROTARY HEAD GUIDE SYSTEM FOR DRILLING MACHINE	2019/10/09
2019/06655	HIGH FORMABILITY STEEL SHEET FOR THE MANUFACTURE OF LIGHTWEIGHT STRUCTURAL PARTS AND MANUFACTURING PROCESS	2019/10/09
2019/06908	METHOD FOR PRODUCING A HIGH STRENGTH STEEL SHEET HAVING HIGH DUCTILITY, FORMABILITY AND WELDABILITY, AND OBTAINED STEEL SHEET	2019/10/21
2019/06950	RESINS DERIVED FROM RENEWABLE SOURCES AND STRUCTURES MANUFACTURED FROM SAID RESINS	2019/10/22
2019/07095	A DIE FOR RELOADING CARTRIDGE CASES	2019/10/28
2019/07158	METHODS AND COMPOSITIONS FOR TREATING SLEEP APNEA	2019/10/29
2019/07229	CROSS-ASSET TRADING WITHIN BLOCKCHAIN NETWORKS	2019/10/30
2019/07306	METHOD AND SYSTEM FOR PRODUCING SUBSTANTIALLY MONO-DISPERSE PARTICLES OF A SUBSTANCE	2019/11/04
2019/07398	POLYPROPYLENE COMPOSITION WITH EXCELLENT SURFACE APPEARANCE	2019/11/07
2019/07399	ZINC-COATED STEEL SHEET WITH HIGH RESISTANCE SPOT WELDABILITY	2019/11/07
2019/07565	A TRAP UNIT AND SYSTEM	2019/11/14
2019/07618	GROUND REINFORCING STRUCTURE AND RELATED METHOD	2018/10/12
2019/07642	PILOT ACTUATED CONTROL PILOT FOR OPERATING VALVE	2019/11/19
2019/07860	SURFACE SUPPORT	2019/11/27
2019/07909	PAYLOAD DELIVERY MECHANISM SUITABLE FOR USE WITH A DRONE	2019/11/28
2019/07938	STABLE MONOLITHIC FAST-RELEASE PHARMACEUTICAL FORM OF EZETIMIBE AND	2019/11/27

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	ROSUVASTATIN	
2019/07975	AGENT FOR PREVENTING OR TREATING	2019/11/29
	TAUOPATHY	
2019/07994	A MOBILE WATER DISPENSING APPARATUS	2019/12/02
2019/07998	THERMAL CONDUCTIVITY ALLOY	2019/12/02
2019/08051	EARTH-MOVING MACHINERY COLLISION	2019/12/04
	THREAT FILTERING	
2019/08061	SYSTEM AND METHOD FOR GENERATING A	2019/12/04
0010/00000		0040/40/05
2019/08083		2019/12/05
2019/08203		2019/12/10
	FOR THE TENSIONING DEVICE	
2019/08204	WATER TREATMENT PLANT HAVING	2019/12/10
2010/00201	INTEGRATED BALLASTED FLOCCULATION AND	2010/12/10
	DECANTATION, AND A CORRESPONDING	
	METHOD	
2019/08394	CONTROL METHOD FOR CONTROLLING A YAW	2019/12/17
	ANGLE AND A ROLL ANGLE OF AN AIRCRAFT	
	THAT TAKES OFF VERTICALLY	
2019/08422	METHOD OF WELDING FERRETIC STAINLESS	2019/12/17
2010/00010	SIEELS	2010/12/22
2019/08616		2019/12/23
2020/00006		2020/01/02
2020/00000	PRESTRESS TO STEEL SUPPORT OF DEEP	2020/01/02
	FOUNDATION PIT	
2020/00018	MULTIFUNCTION SENSOR CONTAINED IN A SEAL	2020/01/02
	OF A CONVEYOR BELT ROLLER	
2020/00080	EXPANDABLE CONTAINER SHELTER	2020/01/07
2020/00193	TREATMENT OF DEPRESSION WITH NMDA	2020/01/10
	ANTAGONISTS AND D2/5HT2A OR SELECTIVE	
0000/00001	5HT2A ANTAGONISTS	0000/04/44
2020/00234		2020/01/14
2020/00270		2020/01/15
2020/00298		2020/01/14
2020/00317	REMOTE REGULATOR PRESSURE AD ILISTMENT	2020/01/16
2020/00317	TOOL AND METHOD USING THE SAME	2020/01/10
2020/00347	MULTI-INLET GAS DISTRIBUTOR FOR CHEMICAL	2018/06/26
	VAPOR DEPOSITION COATING OF TRISO	
	PARTICLES	
2020/00368	GRINDING MEDIUM SUPPLY SYSTEM COUPLED	2020/01/20
	WITH LOW-TEMPERATURE COOLING AND	
	NANOPARTICLE JET MINIMUM QUANTITY	
0000/00400		0000/04/04
2020/00406	ANALYSIS METHOD FOR FOODSTUFFS IN	2020/01/21
2020/00414		2020/01/21
2020/00414		2020/01/21
2020/00415	BUCKET LIP STABILIZER STRUCTURE	2020/01/21
2020/00764	SKIRT ASSEMBLY FOR IMPLANTABLE	2020/02/05
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	PROSTHETIC VALVE	
2020/00801	A SYSTEM FOR VEHICLE IDENTIFICATION IN A FUEL DISPENSING ENVIRONMENT	2020/02/07
2020/00827	PACKAGED RETAIL INSURANCE PRODUCT AND PROCESS AND SYSTEM FOR IMPLEMENTATION THEREOF	2020/02/10
2020/00845	SEALING ELEMENT FOR PROSTHETIC HEART VALVE	2020/02/10
2020/01016	SCINTILLATION MITIGATION IN GEOGRAPHICALLY DISTRIBUTED SATELLITE ACCESS NODES	2020/02/18
2020/01066	AGONISTIC CD40 ANTIBODIES	1900/01/01
2020/01144	SYSTEM FOR AND METHOD OF CLASSIFYING A FINGERPRINT	2020/02/24
2020/01145	SYSTEM FOR AND METHOD OF ADJUSTING THE ORIENTATION OF A CAPTURED IMAGE OF A SKEWED FINGERPRINT	2020/02/24
2020/01291	NEGATIVE PRESSURE WOUND TREATMENT APPARATUSES AND METHODS WITH INTEGRATED ELECTRONICS	2020/02/28
2020/01374	AVIATION TRAINING SYSTEM AND METHOD	2020/03/04
2020/01534	PLUG BOLT	2020/03/11
2020/01632	A METHOD FOR THE MANUFACTURE OF A GALVANNEALED STEEL SHEET	2020/03/16
2020/01642	METHOD FOR THE TREATMENT OF IRON- CONTAINING SLUDGE	2020/03/16
2020/01644	TREATMENT METHOD FOR A CUTTING PIECE, AND ASSOCIATED EQUIPMENT	2020/03/16
2020/01768	NOVEL CHIMERIC INSECTICIDAL PROTEINS TOXIC OR INHIBITORY TO LEPIDOPTERAN PESTS	2020/03/20
2020/01769	NOVEL CHIMERIC INSECTICIDAL PROTEINS TOXIC OR INHIBITORY TO LEPIDOPTERAN PESTS	2020/03/20
2020/01770	NOVEL CHIMERIC INSECTICIDAL PROTEINS TOXIC OR INHIBITORY TO LEPIDOPTERAN PESTS	2020/03/20
2020/01771	NOVEL CHIMERIC INSECTICIDAL PROTEINS TOXIC OR INHIBITORY TO LEPIDOPTERAN PESTS	2020/03/20
2020/01858	CONNECTION METHOD AND STRUCTURE OF LIGHTNING PROTECTION DOWNLEAD FOR PRECAST CONCRETE BUILDING	2020/03/24
2020/01874	BATTERY SYSTEM, LOCAL ELECTRICAL GRID AND DISCONNECTOR	2020/03/24
2020/01974	SINGLE-TOWER DUAL-CYCLE FLUE GAS DESULFURIZATION SYSTEM	2020/05/04
2020/02008	BATTEN SECURING PLATE	2020/05/04
2020/02118	NEBULIZER ORIENTATION APPARATUS	2020/05/04
2020/02119	WIRE NETTING SYSTEM	2020/05/04
2020/02410	METHODS FOR OBTAINING MUSCLE DERIVED	2020/05/04

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2020/02471	BISPECIFIC TRIVALENT ANTIBODIES BINDING TO CLAUDIN6 OR CLAUDIN18.2 AND CD3 FOR TREATMENT OF CLAUDIN EXPRESSING CANCER DISEASES	2017/09/20
2020/02472	METHOD FOR PREPARING POROUS CARBON NANOMATERIAL BY MICROWAVE	2020/05/06
2020/02659	ASTHMA WARNING/PREVENTION SYSTEM AND DEVICE	2018/11/13
2020/02699	IDENTIFIABLE FIRE-RESISTANT WRAPPING TAPE AND PREPARATION METHOD THEREOF	2020/05/12
2020/02875	BINDER COMPOSITION	2020/05/18
2020/02988	METHOD FOR GRINDING AND/OR POLISHING A DEFECT AND DEVICE FOR CARRYING OUT THE METHOD	2020/05/21
2020/03000	PROTECTION OF A MONOSTATIC OR QUASI- MONOSTATIC LASER RANGEFINDER	2020/05/21
2020/03068	SUPPLEMENT SET FOR ALLEVIATING MENSTRUAL IMBALANCE	2020/05/25
2020/03140	METHOD FOR DIRECTLY PRODUCING AROMATIC HYDROCARBON FROM SYNTHESIS GAS	2018/10/29
2020/03315	MICROORGANISM OF GENUS CORYNEBACTERIUM FOR PRODUCING L-AMINO ACID AND METHOD FOR PRODUCING L-AMINO ACID BY USING SAME	2020/06/03
2020/03328	BUS COMMUNICATION NETWORK WIRELESS BACKHAUL SYSTEM USING MOBILE TVWS AND OPERATING METHOD THEREOF	2020/06/03
2020/03369	ON-LOAD TAP CHANGER AND LOCAL NETWORK TRANSFORMER HAVING AN ON-LOAD TAP CHANGER	2020/06/05
2020/03481	A TUFTING MACHINE AND METHOD FOR OPERATING A TUFTING MACHINE	2018/12/06
2020/03482	AN INDIVIDUAL NEEDLE CONTROL TUFTING MACHINE	2018/12/05
2020/03589	COMPUTING RISK FROM A CROP DAMAGING FACTOR FOR A CROP ON AN AGRONOMIC FIELD	2020/06/15
2020/03615	GROUP B ADENOVIRUS-CONTAINING FORMULATION	2020/06/17
2020/03732	COMPUTER SCREEN SELF-CLEANING DEVICE	2020/06/19
2020/03733	WIRE COLLECTION APPARATUS USED IN COMPUTER CASE	2020/06/19
2020/03803	THERMAL BATTERY AND ELECTRICITY GENERATION SYSTEM	2020/06/23
2020/03901	HERBICIDAL COMBINATIONS	2020/06/26
2020/03997	METHOD FOR CONFIGURING A MULTILAYER SPECTRAL-SEPARATION FILTER FOR PHOTOVOLTAIC AND THERMAL USES, AND FILTER AND GENERATION PLANT ASSOCIATED WITH SAID METHOD	2020/06/30
2020/04021	MODIFIED HOMOSERINE DEHYDROGENASE, AND METHOD FOR PRODUCING HOMOSERINE OR HOMOSERINE-DERIVED L-AMINO ACID	2020/07/01

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	USING SAME	
2020/04025	NOVEL COMPOUNDS AND PHARMACEUTICAL COMPOSITIONS THEREOF FOR THE TREATMENT OF DISEASES	2020/07/01
2020/04026	UREA SUPPLEMENT FOR ANIMAL NUTRITION	2020/07/01
2020/04045	METHOD OF TREATING IDIOPATHIC THROMBOCYTOPENIA PURPURA (ITP) WITH ROMIPLOSTIM	2020/07/02
2020/04067	COMPOSITIONS AND METHODS OF TREATMENT FOR NEUROLOGICAL DISORDERS COMRISING A DEMENTIA	2020/07/03
2020/04081	CLEARANCE OF BARE METAL RESOURCE TO TRUSTED STATE USABLE IN CLOUD COMPUTING	2019/01/04
2020/04082	LOGGING CACHE INFLUXES BY REQUEST TO A HIGHER-LEVEL CACHE	2019/02/14
2020/04083	TRACE RECORDING BY LOGGING INFLUXES TO A LOWER-LAYER CACHE BASED ON ENTRIES IN AN UPPER-LAYER CACHE	2019/02/13
2020/04110	COMPOSITIONS AND METHODS FOR THE TREATMENT OF METABOLIC CONDITIONS	2020/07/06
2020/04248	USE OF PHYCOBILIPROTEINS OR AN EXTRACT CONTAINING SAME AS FERTILIZER	2020/07/10
2020/04278	GIS-TYPE ZEOLITE	2020/07/13
2020/04322	ELECTROSTATIC PRECIPITATOR	2020/07/14
2020/04368	TELEHANDLER WITH IMPROVED STABILISERS	2020/07/16
2020/04374	COMPOUND FUNCTIONING AS BROMODOMAIN PROTEIN INHIBITOR, AND COMPOSITION	2020/07/16
2020/04523	MINE PLUG	2020/07/22
2020/04530	TRANSDERMAL ABSORPTION AGENT COMPRISING DONEPEZIL FOR TREATMENT OF DEMENTIA	2020/07/22
2020/04533	SKIN-BRIGHTENING COMPOSITIONS AND METHODS	2020/07/22
2020/04678	COMPOSITIONS COMPRISING CO-SELECTED MICROBIOTA AND METHODS FOR USE THEREOF	2020/07/29
2020/04686	PRECISION SOWING METHOD AND DEVICE	2020/07/29
2020/04692	PROCESSES FOR PREPARING (1 -(3-FLUORO-2- (TRIFLUOROMETHYL)ISONICOTINYL)PIPERIDINE- 4-ONE)	2020/07/29
2020/04700	NOVEL CRYSTALLINE FORMS	2020/07/29
2020/04714	APPARATUS AND METHOD OF MAKING A NONWOVEN FABRIC FROM FIBERS	2020/07/30
2020/04715	METHOD AND APPARATUS FOR MAKING A NONWOVEN FROM CRIMPED FILAMENTS	2020/07/30
2020/04784	HUMANIZED AND DE-IMMUNIZED ANTIBODIES	2020/07/31
2020/04830	PIVOT COUPLING	2020/08/04
2020/04853	A MONOVALENT VACCINE FORMULATION AND A METHOD FOR PREPARATION THEREOF	2020/08/05
2020/04855	METHODS OF INCREASING NUTRIENT USE EFFICIENCY	2020/08/05
2020/05020	RAIL VEHICLE AND COUPLING BOX THEREOF	2020/08/13
2020/05046	METHODS FOR BOOSTING UVA PHOTO-	2020/08/14

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	PROTECTION LISING ANTIOXIDANTS	
2020/05088		2020/08/17
2020/05101	FLATNESS ROLLER, SYSTEM FOR MEASURING	2020/08/18
2020/00101	FLATNESS AND LINE FOR ASSOCIATED ROLLING	2020/00/10
	OPERATIONS	
2020/05176	USE OF H2SO4 AS ELECTROLYTE IN	2020/08/20
	PROCESSES FOR SMOOTHING AND POLISHING	
	METALS BY ION TRANSPORT VIA FREE SOLIDS	
2020/05180	PROJECTILE HAVING A PYROTECHNIC	2020/08/20
	EXPLOSIVE CHARGE	
2020/05186	MORTAR WEAPON	2020/08/20
2020/05187	TARGET MAGNET MECHANISM FOR PROXIMITY	2020/08/20
	SWITCH	
2020/05209	MECHANICAL PERMANENT MAGNET COUPLING	2020/08/21
	TORQUE ADJUSTMENT METHOD AND	
0000/05007		0000/00/00
2020/05307		2020/08/26
	MULCHING MICRO-IRRIGATION	
2020/05311	7-SUBSTITUTED SULEONIMIDOYL PURINONE	2020/08/26
2020/00011	COMPOUNDS AND DERIVATIVES FOR THE	2020/00/20
	TREATMENT AND PROPHYLAXIS OF LIVER	
	CANCER	
2020/05315	NOVEL PROMOTER AND USE THEREOF	2020/08/26
2020/05342	RING HOOP PADLOCK AND ASSEMBLY METHOD	2020/08/27
2020/05346	TELESCOPIC HOLDER FOR MOVING	2020/08/27
	CONTAINERS IN HIGH-BAY WAREHOUSES	
2020/05358	EGG TRANSFER MODULE HAVING FREE-MOVING	2020/08/27
	EJECTOR, AND ASSOCIATED SYSTEMS AND	
2020/05270		2020/08/28
2020/05370		2020/08/28
2020/05378	METHOD AND DEVICE FOR THE CATALYTIC	2020/08/28
2020/000/0	CONVERSION OF A SUBSTANCE MIXTURE	2020/00/20
2020/05380	METHOD FOR ISOLATION OF CYTISINE	2020/08/28
2020/05506	LOCKOUT BOX	2020/09/04
2020/05512	SYSTEM AND METHOD FOR COMPOSITE-KEY	2020/09/04
	BASED BLOCKCHAIN DEVICE CONTROL	
2020/05516	LOW-WETTING ELECTROSTATIC APPLICATION	2020/09/04
	DEVICE AND METHOD	
2020/05530	RAILWAY TRUCK ASSEMBLY HAVING FRICTION	2020/09/07
	ASSIST SIDE BEARINGS	
2020/05531	HERBICIDAL COMPOUNDS	2020/09/07
2020/05533	METHOD FOR CONTROLLING A FIBRE DRAWING FACILITY	2020/09/07
2020/05550	A GRILL CLEANER	2020/09/08
2020/05552	MULTI-FUNCTIONAL FURNITURE ARRANGEMENT	2020/09/08
2020/05553	SAW-TOOTHED ELECTRODE AND METHOD FOR	2020/09/08
	ENHANCING PERFORMANCE OF NANOWIRE UV	
	DETECTOR	
2020/05582	AN APPARATUS FOR SANITIZING A SURFACE	2020/09/09

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2020/05598	FILTER ELEMENT CONFIGURATIONS	2020/09/09
2020/05654	METHOD FOR REMOVING MANGANESE IONS AND APPLICATION THEREOF IN ZINC HYDROMETALLURGY	2020/09/11
2020/05666	BICYCLIC COMPOUNDS AS INHIBITORS OF PD1/PD-L1 INTERACTION/ACTIVATION	2020/09/11
2020/05671	APPLICATION OF (5R)-5-HYDROXYTRIPTOLIDE IN PREPARATION OF DRUGS	2018/12/14
2020/05713	A MECHANISM FOR MANAGING AUTHORIZED ACCESS TO ONE OR MORE INFRASTRUCTURE ASSETS, AND A METHOD OF MANAGING ACCESS TO ONE OR MORE INFRASTRUCTURE ASSETS	2020/09/15
2020/05718	CONTAINER FOR RIPENING, TRANSPORTING AND/OR STORING FRUIT	2020/09/15
2020/05744	METHOD AND SYSTEM FOR ENCRYPTED COMMUNICATION BETWEEN DEVICES BY USING BLOCK CHAIN SYSTEM	2020/09/16
2020/05747	INDOLE AND BENZIMIDAZOLE DERIVATIVES AS DUAL 5-HT2A AND 5HT6 RECEPTOR ANTAGONISTS	2020/09/16
2020/05756	METHODS OF PRODUCING SUGAR CANE TRANSPLANT UNITS	2020/09/16
2020/05757	FILTER FOR INFUSION MEDICAL LINES	2020/09/16
2020/05775	PLANT BASED VEGAN PROTEIN DRINK ENRICHED WITH REAL FRUIT JUICE	2020/09/17
2020/05776	WEAR-LEVELLING APPARATUS FOR CYCLONES	2020/09/17
2020/05792	ANTI-GM-CSF ANTIBODIES AND USES THEREOF	2020/09/17
2020/05796	COMPOSITION SUITABLE FOR SANITATION, DEODORISATION, HORTICULTURE AND PEST CONTROL	2020/09/18
2020/05809	TONGUE RAIL	2020/09/18
2020/05811	OBJECTIVE FUNCTION FOR AUTOMATIC CONTROL OF A MINERAL ORE GRINDING CIRCUIT	2020/09/18
2020/05822	SOLID DOSAGE FORM COMPRISING SITAGLIPTIN AND METHOD OF PREPARATION THEREOF	2020/09/21
2020/05830	IMAGE PROCESSING DEVICE AND IMAGE PROCESSING METHOD	2020/09/21
2020/05834	ALKYL ALKOXYLATED CARBOXYLATE SALTS AS STEAM FOAM ADDITIVES FOR HEAVY OIL RECOVERY	2020/09/21
2020/05894	A PICK SLEEVE	2020/09/21
2020/05958	DETECTION DEVICE HAVING VISUAL DISTURBANCE MONITORING FUNCTION	2020/09/28
2020/05959	STRUCTURE OF TAMPER SWITCH	2020/09/28
2020/05960	LIGHT-BLOCKING SHEET FOR PASSIVE INFRARED DETECTION DEVICE AND PASSIVE INFRARED SENSING DEVICE USING SAME	2020/09/28
2020/05966	ADDRESS EXCHANGE SYSTEMS AND METHODS	2020/09/28
2020/05971	SYSTEMS AND METHODS FOR OZONE WATER GENERATOR	2020/09/28

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2020/05973	PACKAGING UNIT FROM A MOULDED PULP MATERIAL WITH PEELABLE LAMINATED LAYER AND METHOD FOR MANUFACTURING SUCH PACKAGING UNIT	2020/09/28
2020/05978	BIODEGRADABLE AND COMPOSTABLE FOOD PACKAGING UNIT FROM A MOULDED PULP MATERIAL WITH A CELLULOSE-BASE LAMINATE LAYER, AND METHOD FOR MANUFACTURING SUCH FOOD PACKAGING UNIT	2020/09/28
2020/05979	SYSTEMS AND METHODS FOR OZONE WATER GENERATION CELL WITH INTEGRATED DETECTION	2020/09/28
2020/06003	SCREEN ASSEMBLY	2020/09/29
2020/06009	ULTRA CLASSIC REFORMER APPARATUS	2020/09/29
2020/06047	ANTI-CLOGGING STRENGTHENED WATER- PERMEABLE PILE AND CONSTRUCTION METHOD	2020/09/30
2020/06050	ELECTRO-OSMOSIS TREATMENT METHOD FOR REDUCING MOISTURE CONTENT OF ROADBED, AND ROAD STRUCTURE	2020/09/30
2020/06051	ANIMAL FEED DISPENSER	2020/09/30
2020/06064	STOCK RAIL	2020/09/30
2020/06066	ANTI-HLA-G ANTIBODIES AND USE THEREOF	2020/09/30
2020/06078	METHOD FOR CONTROLLING PEST INFESTATIONS	2020/09/30
2020/06108	A FLUID-POWERED ELECTRICAL GENERATOR	2020/10/02
2020/06109	PAYMENT SYSTEM AND METHOD	2020/10/02
2020/06110	CONTAINER FOR TRANSPORTING LIQUIDS	2020/10/02
2020/06111	AN ICE MOLD	2020/10/02
2020/06146	HEALTH MONITOR DEVICE	2020/10/05
2020/06165	HYDROGEN CARRIER COMPOUNDS	2020/10/05
2020/06180	BACILLUS SUBTILIS STRAIN, BACTERIAL MANURE, AND PREPARATION METHOD AND USE THEREOF	2020/10/06
2020/06204	ANTI-THEFT APPARATUS	2020/10/07
2020/06234	COMPOSITIONS AND METHODS FOR THE TREATMENT OF NEUROLOGICAL DISEASES	2020/10/07
2020/06240	A MODULAR SAFE-HOUSE SYSTEM	2020/10/08
2020/06247	BISPECIFIC EGFR/CD16 ANTIGEN-BINDING PROTEIN	2020/10/08
2020/06256	METHOD FOR IDENTIFYING AN OBJECT WITHIN AN IMAGE AND MOBILE DEVICE FOR EXECUTING THE METHOD	2020/10/08
2020/06257	EXPANDABLE SHEATH	2020/10/08
2020/06260	TRANSMISSION WHEEL AND A METHOD FOR ITS MOUNTING	2020/10/08
2020/06261	WASHING COMPOSITION	2020/10/08
2020/06298	KIT, COMPOSITION AND COMBINATION THERAPY FOR FRAGILE X SYNDROME	2020/10/09
2020/06337	INDIVIDUAL SCAFFOLDING POST	2020/10/06
2020/06338	REUSABLE CORE NEEDLE BIOPSY DEVICE AND DISPOSABLE NEEDLE SYSTEM TO ELIMINATE INTERNAL CONTAMINATION RISK IN REUSABLE	2020/10/13

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	PORTION OF DEVICE	
2020/06374	SYNTHETIC FIBER WITH ADDITION OF NATURAL	2020/10/14
2020/06435	ELECTRODES FOR DIVERGENT ELECTROLYTIC	2020/10/16
2020/06436	PROCESS FOR THE RECOVERY OF RARE EARTHS	2020/10/16
2020/06437	STRUCTURED PACKING FOR CATALYTIC DISTILLATION	2020/10/16
2020/06452	MECHANICAL MAGNETIC ENGINE	2020/10/16
2020/06510	LOW DENSITY IRIDIUM SOURCE	2020/10/20
2020/06521	PACKAGING APPARATUS AND SYSTEM	2020/10/20
2020/06538	GEOSYNTHETIC REINFORCED WALL PANELS COMPRISING SOIL REINFORCING HOOP MEMBERS AND RETAINING WALL SYSTEM FORMED THEREWITH	2020/10/21
2020/06541	PHARMACEUTICAL COMPOSITION COMPRISING BREXPIPRAZOLE	2020/10/21
2020/06545	CALCIUM POLYPHOSPHATE/WOLLASTONITE BIO-COMPOSITE CERAMIC MATERIAL AND PREPARATION METHOD THEREFOR	2020/10/21
2020/06546	METHOD AND DEVICE FOR PRESERVING WINE- CONTAINING LIQUIDS	2020/10/21
2020/06548	DEVICES AND METHODS FOR CRIMPING PROSTHETIC IMPLANTS	2020/10/21
2020/06570	PHARMACEUTICAL FORMULATIONS	2020/10/22
2020/06572	TOTAL OSSICULAR PROSTHESIS (TOP) /MODERN STAPES PROSTHESIS IN CASES OF CONDUCTIVE HEARING LOSS	2020/10/22
2020/06579	CREATINE AND/OR CREATININE COMPOSITIONS AND RELATED METHODS	2020/10/22
2020/06605	LABORATORY CORE ORIENTATION METHOD BASED ON ACOUSTIC VELOCITY ANISOTROPY	2020/10/23
2020/06617	FABRICATION METHODS, STRUCTURES, AND USES FOR PASSIVE RADIATIVE COOLING	2020/10/23
2020/06619	REMOVABLE VOLUME INDICATOR FOR SYRINGE	2020/10/23
2020/06633	METHOD FOR REPAIRING SHAFT LINING USING FROZEN SOIL CURTAIN	2020/10/26
2020/06634	A SYSTEM OPERABLE TO ASSIST WITH THE MANAGEMENT OF MEDICAL TRAINING AND/OR COURSES, AND A METHOD OF MANAGING MEDICAL TRAINING AND/OR COURSES	2020/10/26
2020/06635	A STENCIL	2020/10/26
2020/06652	AN APPARATUS AND PROCESS FOR PRINTING WITH TACTILE AND GLITTER EFFECT ON FLEXIBLE SUBSTRATE AND PRINTED SUBSTRATE THEREOF	2020/10/26
2020/06684	ANTI-MUC1 ANTIBODY	2020/10/27
2020/06705	SILOXANES FOR TREATING TEXTILS AND FOR USE IN CLEANING AND CARE FORMULATIONS	2020/10/28
2020/06708	SKIN CARE COMPOSITIONS AND THEIR APPLICATIONS	2020/10/28

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2020/06711	HIGH THREAD/ YARN COUNT WOVEN TEXTILE FABRIC AND PROCESS OF PREPARATION THEREOF	2020/10/28
2020/06725	MONITORING SYSTEM FOR BEARING COMPRESSION RATE OF FILLING BODY IN COAL MINE GOAF AND MONITORING METHOD THEREOF	2020/10/28
2020/06726	PRESSED COAL FILLING MINING SYSTEM AND PROCESS FOR END SLOPE OF OPEN PIT	2020/10/28
2020/06729	PAYMENT METHOD AND SYSTEM FOR PLEDGE- PAYABLE ONLINE TRADING	2020/10/28
2020/06759	STABILIZED CHEMICAL COMPOSITION	2020/10/29
2020/06769	BRAKING SYSTEM FOR MACHINE	2020/10/29
2020/06792	A COMPUTER IMPLEMENTED SYSTEM AND METHOD OF DETECTING EXERCISE DEVICE FRAUD	2020/10/30
2020/06793	A COMPUTER IMPLEMENTED SYSTEM AND METHOD OF DETECTING STEP COUNTING DEVICE FRAUD	2020/10/30
2020/06794	BACKFILL SAFETY BAG	2020/10/30
2020/06806	USE OF COMPOSITION AS A GROWTH PROMOTANT FOR PLANTS	2020/10/30
2020/06868	AN ANISOTROPIC BONDED MAGNETIC POWDER AND A PREPARATION METHOD THEREOF	2020/11/04
2020/06869	A PREPARATION METHOD OF A RARE EARTH ANISOTROPIC BONDED MAGNETIC POWDER	2020/11/04
2020/06870	A COMPOSITE RARE EARTH ANISOTROPIC BONDED MAGNET AND A PREPARATION METHOD THEREOF	2020/11/04
2020/06884	RECIPROCATING IMPACT BEVEL DISCHARGING SHOVEL OF RECIPROCATING IMPACT MINING MACHINE	2020/11/04
2020/06924	A PROCESS FOR PRODUCING HYDROGEN AND LIGHT OLEFINS FROM RESID FLUID CATALYTIC CRACKING	2020/11/06
2020/06929	METHOD FOR EVALUATING FUSARIUM WILT RESISTANCE IN BANANA	2020/11/06
2020/06932	REVERSE ACID AND HYDROCARBON CASCADING IN ALKYLATION	2020/11/06
2020/06941	DISCHARGE FILTER PLATE ASSEMBLY FOR FILTER PRESS	2020/11/06
2020/06954	METHOD FOR EXTRACTING NATURAL VITAMIN E FROM DEODORIZED DISTILLATE OF RICE BRAN OIL	2020/11/09
2020/06980	A SYSTEM FOR AND A METHOD OF COLLECTING HONEYCOMB	2020/11/10
2020/07014	X-RAY FLUORESCENCE ANALYZER WITH A PLURALITY OF MEASUREMENT CHANNELS, AND A METHOD FOR PERFORMING X-RAY FLUORESCENCE ANALYSIS	2020/11/11
2020/07124	HYDROPONICS	2020/11/16
2020/07153	METHOD FOR IMPROVING CONTENT OF	2020/11/17

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	MONACOLIN K IN RED YEAST RICE	
2020/07190	PREPARATION METHOD FOR TITANIUM COMPOSITE ANTI-EROSION WEAR-RESISTANT REFRACTORY CASTABLE	2020/11/18
2020/07219	WATER SAVING SYSTEMS	2020/11/19
2020/07252	RECYCLABLE COMPOSITION FOR WATERPROOFING PAPER UTILIZING PLANT DERIVED WAXES, AND PELLETS UTILIZING SAID COMPOSITION	2020/11/20
2020/07253	PREPAID WATER MANAGEMENT SYSTEM AND METHOD	2020/11/20
2020/07272	ENERGY ARRANGEMENT	2020/11/23
2020/07316	USE OF CARBON-NANOFIBRES COMPRISING CARBON NETWORKS	2020/11/24
2020/07335	AUTOMATIC FORCE ADJUSTMENT CONTROL SYSTEM FOR MOBILE DRILLING MACHINES	2020/11/25
2020/07336	A SUPPORT DEVICE	2020/11/25
2020/07348	MODULATION OF IMMUNE FUNCTION BY BACILLUS COAGULANS	2020/11/25
2020/07352	GROWING METHOD OF FRUIT TREES AND ASSOCIATED TREE	2020/11/25
2020/07354	COMPOSITIONS WITH INCREASED COLOR SHADE STABILITY	2020/11/25
2020/07355	ALKOXYLATED ALKYL AMINE POLYESTERS AS POUR POINT DEPRESSANTS FOR FUELS	2020/11/25
2020/07375	FACE MASK WITH SUPPORTING STRIP	2020/11/26
2020/07378	CONTROL OF AN ENGINE FOR A MACHINE WITH A DUAL PATH POWERTRAIN	2020/11/26
2020/07383	METHOD FOR DISTINGUISHING A REAL THREE- DIMENSIONAL OBJECT FROM A TWO- DIMENSIONAL SPOOF OF THE REAL OBJECT	2020/11/26
2020/07385	IMPROVED ORTHOPEDIC SPRING HINGE SYSTEM AND METHODS THEREOF	2020/11/26
2020/07389	POCKETED SPRING COMFORT LAYER HAVING AT LEAST ONE FOAM LAYER AND METHOD OF MAKING SAME	2020/11/26
2020/07400	MEDIA STREAM DELIVERY	2020/11/27
2020/07409	EARPLUGS WITH CORD	2020/11/27
2020/07420	A CALIBRATION METHOD FOR CALIBRATING A CAMERA OF A MOBILE DEVICE FOR DETECTING AN ANALYTE IN A SAMPLE	2020/11/27
2020/07434	LOW AND MEDIUM VOLTAGE ELECTRICAL CABLES	2020/11/30
2020/07435	BATTERY COVER WITH TAMPER PROOF COVER STRIP	2020/11/30
2020/07437	LEAD ACID BATTERY CONNECTION LUG CONFIGURATION AND APPARATUS	2020/11/30
2020/07439	METHOD FOR IMPROVING MONACOLIN K CONTENT IN FERMENTED BEAN CURD	2020/11/30
2020/07445	PHOTO-SENSITIVE ELECTROCHEMICAL COMPOUNDS	2020/11/30
2020/07498	METHOD AND SYSTEM FOR DETERMINING THE	2020/12/02

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	SEPARATION DISTANCE BETWEEN A BODY AND THE SURFACE OF AN OBJECT BY MEANS OF LOW COHERENCE OPTICAL INTERFEROMETRY TECHNIQUES UNDER DISTORTION DUE TO SUB- SAMPLING	
2020/07537	MODULATORS OF APOL1 EXPRESSION	2020/12/03
2020/07556	A SYSTEM FOR, AND METHOD OF RESTRAINING A DOG	2020/12/04
2020/07591	BARRIER COATED WRAPPER MATERIALS AND METHOD FOR PREPARATION OF BARRIER COATED WRAPPER MATERIALS	2020/12/07
2020/07605	ROCK-LIKE SPECIMEN CASTING MOLD APPARATUS WITH CONTROLLABLE JOINT AND USE METHOD THEREOF	2020/12/07
2020/07625	PROCESS FOR THE DESULPHURIZATION OF MATERIALS AND/OR RESIDUES CONTAINING LEAD SULPHATE EMPLOYING AN AMINO COMPOUND	2020/12/07
2020/07699	AUTOMATED PACKING AND SEALING OF A CONTAINER	2020/12/09
2020/07708	CONTINUOUSLY VARIABLE TRANSMISSION WITH RADIAL DRIVE	2020/12/10
2020/07724	SYRINGE DESTRUCTION	2020/12/10
2020/07725	PHLEBOTOMY NEEDLE DESTRUCTION	2020/12/10
2020/07772	SYSTEM AND METHOD FOR DETERMINING CORRELATION BETWEEN A CONTENT AND A PLURLAITY OF RESPONSES	2020/12/14
2020/07776	PROCESS FOR ISOLATING LIGNIN FROM AN ALKALINE PROCESS STREAM	2020/12/14
2020/07825	IRON-MODIFIED CHITOSAN/VERMICULITE COMPOSITE CAPABLE OF SIMULTANEOUSLY REMOVING ANION AND CATION HEAVY METALS, AND PREPARATION AND APPLICATION THEREOF	2020/12/15
2020/07857	GAMING SYSTEM	2020/12/15
2020/07871	A SYSTEM FOR, AND METHOD OF ASSISTING WITH THE DRILLING OF SHOT HOLES IN MINING OPERATIONS	2020/12/17
2020/07872	ROTATABLE SIMILAR MATERIAL SIMULATION EXPERIMENT DEVICE AND METHOD	2020/12/17
2020/07882	INTELLIGENT TRAINING AIDING METHOD AND SYSTEM FOR INSTRUCTIONAL CARS	2020/12/17
2020/07883	INTELLIGENT MANAGEMENT SYSTEM FOR SIDE PARKING	2020/12/17
2020/07885	IOT-BASED (INTERNET OF THINGS BASED) INTELLIGENT FOOD DELIVERY CONTAINER AND MANAGEMENT CONTROL METHOD THEREOF	2020/12/17
2020/07886	FITNESS INSTRUCTION METHOD AND SYSTEM	2020/12/17
2020/07887	ABNORMAL BODY POSTURE PROMPT METHOD AND SYSTEM	2020/12/17
2020/07978	METHOD AND APPARATUS FOR SEPARATING ORGANICS FROM A CONTAMINATED ORGANICS- INORGANICS WASTE STREAM	2020/12/21

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2020/08009	CELLULAR BASE STATION	2020/12/22
2020/08054	TEMPERATURE CONTROL SYSTEM BASED ON IMPROVED AUTOMATIC DISTURBANCE REJECTION TECHNOLOGY FOR CHEMICAL PRODUCTION	2020/12/23
2020/08097	HIGH PRESSURE INFLATABLE BEAM	2020/12/23
2021/00013	APPARATUS AND METHOD FOR PRODUCING ALKALINE WATER	2021/01/04
2021/00019	SELF-LOCKING BRACKET	2021/01/04
2021/00023	HANDLING BS-TO-BS INTERFERENCE IN RADIO ACCESS NETWORKS	2021/01/04
2021/00068	METHOD FOR DYNAMIC FILTRATION OF A CROSS-LINKED HYDROGEL	2021/01/05
2021/00166	COMPOSITION COMPRISING GLYCYRRHIN AND COSMETIC AND PHARMACEUTICAL USES THEREOF	2021/01/11
2021/00188	NATIONAL ECONOMIC ESTIMATION METHOD AND DEVICE BASED ON LUMINOUS REMOTE SENSING DATA	2021/01/12
2021/00219	CELLULOSE DIACETATE COMPOSITE SHAPE- STABILIZED PHASE CHANGE MATERIAL AND PREPARATION METHOD AND USE THEREFOR	2021/01/13
2021/00252	METHODS AND APPARATUS OF VIDEO CODING USING HISTORY-BASED MOTION VECTOR PREDICTION	2021/01/13
2021/00253	FENCE SYSTEM	2021/01/13
2021/00366	VARIABLE PORT PRESSURE DEVICE FOR USE ON A MULTIPLE GRENADE LAUNCHER	2021/01/18
2021/00377	SYNERGISTICALLY EFFECTIVE HERBICIDE COMPOSITION COMPRISING METOBROMURON AND CLOMAZONE	2021/01/19
2021/00404	A MULTI-ROUND LAUNCHER COMPRISING A MECHANICALLY-ACTUATED INDEXING MECHANISM	2021/01/19
2021/00438	SIDE UNLOADING HOPPER CONTAINER FOR BREAK BULK CARGO	2021/01/21
2021/00441	SYSTEM AND METHOD FOR CASCADING ALIGNMENT OF INDEPENDENT DRIVE SYSTEMS	2021/01/21
2021/00450	BLADDER FLUSHING MONITORING DEVICE AND MONITORING METHOD THEREOF	2021/01/21
2021/00457	A METHOD FOR CONTROLLING CRAYFISH TO SURVIVE THE SUMMER SAFELY CULTURED IN SOUTHERN CHINA PADDY FIELDS	2021/01/22
2021/00464	FENCING APPARATUS AND FENCING TECHNIQUES	2021/01/21
2021/00473	PRODUCTION PROCESS OF FUMARIC ACID	2021/01/22
2021/00499	SUBSCRIBER NOTIFICATION MANAGEMENT SYSTEM	2021/01/25
2021/00525	SYNERGISTICALLY EFFECTIVE HERBICIDE COMPOSITION COMPRISING PYRIDATE AND AT LEAST ONE DEFINED 4-HPPD INHIBITOR	2021/01/25
2021/00542	METHOD, SYSTEM, STORAGE MEDIUM, AND	2021/01/26

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	TERMINAL FOR DETERMINING THE ECOLOGICAL CHARACTERISTICS REGARDING PRODUCING REGIONS OF FLUE-CURED TOBACCO	
2021/00552	CONVERTER TORQUE SUPPORT	2021/01/26
2021/00586	INSTANT WATER HEATER	2021/01/27
2021/00607	SYSTEM AND METHOD FOR POSITION CORRECTION USING POWER LINE CARRIER COMMUNICATIONS	2021/01/27
2021/00626	WIRELESS LARYNGOSCOPE	2021/01/28
2021/00641	ILLUMINANCE ADJUSTABLE LED UNDERWATER FISH GATHERING LAMP AND ITS APPLICATION METHOD	2021/01/29
2021/00642	METHOD FOR CONSTRUCTING CURTAIN BY GROUTING UNDERGROUND CONTINUOUS BLIND GROOVE IN BEDROCK RICH IN PORE WATER	2021/01/29
2021/00656	OPHTHALMIC COMPOSITIONS AND METHODS FOR THE TREATMENT OF EYE DISORDERS AND SKIN DISEASES	2021/01/29
2021/00658	FITTING FOR A PET KEG	2021/01/29
2021/00659	FITTING FOR A PET KEG	2021/01/29
2021/00711	ELECTRONIC VOUCHER DISTRIBUTION ACCOUNT MANAGEMENT	2021/02/02
2021/00807	KEYSTONE MODULE MOUNTING ADAPTER	2021/02/05
2021/00811	INTELLIGENT HYBRID WET / DRY DUST REMOVAL EXPERIMENTATION SYSTEM	2021/02/05
2021/00812	PIPE AND COUPLER JOINT WITH GROOVE AND MULTI LIP SEAL	2021/02/05
2021/01008	CRYOPRESERVED NK CELLS PRELOADED WITH AN ANTIBODY CONSTRUCT	2021/02/15
2021/01104	SOLUBLE CAP PROTEIN OF PORCINE CIRCOVIRUS TYPE 2 AND APPLICATION THEREOF	2021/02/18
2021/01201	AUXILIARY BASIC BIG DATA ACQUISITION DEVICE	2021/02/23
2021/01315	USE OF CICHORIC ACID IN PREPARATION OF DRUG AGAINST RESPIRATORY SYNCYTIAL VIRUS	2021/02/26
2021/03336	AN INTELLIGENT MONITORING SYSTEM FOR AGRICULTURAL GREENHOUSES	2021/05/18
2021/03337	AN AGRICULTURAL INTELLIGENT SEEDLING DEVICE	2021/05/18
2021/03539	METHOD AND SYSTEM FOR UTILITY VENDING, PAYMENTS AND DEBT COLLATERALIZATION	2021/05/25
2021/03621	ROOF RAINWATER SOURCE CONTROL DEVICE BASED ON SPONGE CITY CONCEPT AND OPERATING METHOD	2021/05/27
2021/03808	PROVIDING ENRICHMENT INFORMATION USING HYPERTEXT TRANSFER PROTOCOL SECURE (HTTPS)	2021/06/03
2021/03985	AUTOMATIC DRILL HOLE LENGTH MEASURING DEVICE FOR DRILLING RIG OF CHAIN FEEDING STRUCTURE AND USAGE METHOD	2021/06/09

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2021/03988	METHOD FOR DETERMINING CONTENT OF IMPURITIES IN EPRISTERIDE TABLET BY HPLC	2021/06/10
2021/04058	AUTOMATIC PORRIDGE COOKER, AUTOMATIC PORRIDGE COOKER ASSEMBLY AND METHOD OF COOKING PORRIDGE WITH AN AUTOMATIC PORRIDGE COOKER	2021/06/14
2021/04059	AUTOMATIC PORRIDGE COOKER, AUTOMATIC PORRIDGE COOKER ASSEMBLY AND METHOD OF COOKING PORRIDGE WITH AN AUTOMATIC PORRIDGE COOKER	2021/06/14
2021/04060	AUTOMATIC PORRIDGE COOKER, AUTOMATIC PORRIDGE COOKER ASSEMBLY AND METHOD OF COOKING PORRIDGE WITH AN AUTOMATIC PORRIDGE COOKER	2021/06/14
2021/04062	IOT (INTERNET OF THINGS)-BASED INTELLIGENT GARBAGE CLASSIFICATION CHAMBER	2021/06/14
2021/04063	PPM CODE GENERATION DEVICE FOR MINER PHYSICAL SIGN DETECTION VLC SYSTEM	2021/06/14
2021/04171	HOUSEHOLD INTELLIGENT DISINFECTING AND PURIFYING DEVICE	2021/06/17
2021/04178	METHOD FOR DETECTING THE INITIAL POSITION OF ROTOR AT STANDSTILL OF PERMANENT MAGNET SYNCHRONOUS MOTOR	2021/06/18
2021/04348	COMPREHENSIVE SEWAGE PURIFICATION TREATMENT APPARATUS FOR ENVIRONMENTAL ENGINEERING	2021/06/24
2021/04381	ANTI-INFLAMMATORY REPAIR ESSENCE CONTAINING NATURAL ACTIVE COMPONENT AND PREPARATION METHOD THEREFOR	2021/06/24
2021/04389	MULTI-POSITION SIX-WAY INTEGRATED ROTATING VALVE BASED ON DOUBLE-SIDE ROTATION	2021/06/25
2021/04390	CLAMPING DEVICE FOR USE IN FINE TURNING OF AUTOMOTIVE BRAKE DISC	2021/06/25
2021/04391	TRAY DRYER	2021/06/25
2021/04392	METHOD FOR MODIFYING RECYCLED FINE POWDER OF CONCRETE AND USE THEREOF	2021/06/25
2021/04438	SEMANTIC ELEMENT EXTRACTION METHOD	2021/06/25
2021/04439	A SYSTEM AND METHOD FOR PREPARING CLEAN COAL BY SELF-DRYING COAL SLIME OR LOW-RANK COAL	2021/06/28
2021/04440	STRAW AND COAL GANGUE BASED COMPOSITE ADSORPTION MATERIAL AND ITS PREPARATION METHOD	2021/06/28
2021/04441	A SYSTEM AND METHOD FOR PREPARING CLEAN COAL BASED ON LOW-CONCENTRATION GAS REGENERATIVE OXIDATION	2021/06/28
2021/04442	PREPARATION METHOD FOR ORGANIC FERTILIZER FOR IMPROVING YIELD AND QUALITY OF APPLES	2021/06/28
2021/04443	BIOLOGICAL HYDRAULIC FRACTURING INTENSIFIED COAL SEAM GAS EXTRACTION	2021/06/28

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	SYSTEM	
2021/04491	SEMI-OFF-LINE WEIGHING TYPE CONCENTRATION MEASURING DEVICE FOR SLIME WATER IN CONCENTRATION TANK	2021/06/29
2021/04545	APPLICATION OF PHYSALIS PUBESCENS PERSISTENT CALYX EXTRACT	2021/06/30
2021/04585	AN APPARATUS FOR HIGH-SULFUR COAL MICROBIAL DESULFURIZATION PROCESS	2021/07/01
2021/04586	MODEL DEVICE FOR TESTING PERFORMANCE OF THERMAL INSULATION MATERIALS OF DOUBLE FREEZING PIPES UNDER VERTICAL GROUND STRESS	2021/07/01
2021/04587	A Z-SHAPED PIEZOELECTRIC TRANSDUCER	2021/07/01
2021/04610	METHOD FOR REDUCING DAMAGE OF VEGETATION ROOTS DURING SURFACE COLLAPSE IN MINING AREA	2021/07/02
2021/04611	DESIGN METHOD FOR INITIAL FILLING ELEVATION OF THE SUBSIDENCE LAND RECLAMATION WITH COAL GANGUE FILLING	2021/07/02
2021/04612	ONLINE MONITORING EQUIPMENT FOR MARINE INSTRUMENTS	2021/07/02
2021/04613	A METHOD OF COAL GANGUE IMAGES CLASSIFICATION BASED ON FEATURE MAP DIMENSIONALITY REDUCTION	2021/07/02
2021/04646	DETECTION DEVICE FOR CEMENT-BASED MATERIAL PRODUCTION	2021/07/05
2021/04647	CEMENT MATERIAL GRINDING DEVICE	2021/07/05
2021/04648	ANTI-CRACKING AND ANTI-FREEZING CEMENT- BASED HOMOGENEOUS BOARD AND PROCESSING DEVICE THEREOF	2021/07/05
2021/04649	MUNICIPAL SOLID WASTE INCINERATION BOTTOM ASH SELF-FOAMING LIGHT-WEIGHT MATERIAL AND PREPARATION METHOD	2021/07/05
2021/04681	AN ANGLING DEVICE	2021/07/05
2021/04699	WAVEFORM-LOADING COAL BODY CREEP IMPACT DISTURBANCE LOADING DEVICE AND TEST METHOD	2021/07/06
2021/04706	HEADLIGHT FOR VEHICLES	2021/07/06
2021/04727	RPA DETECTION PRIMER SET, KIT AND METHOD FOR POLYMYXIN DRUG-RESISTANT GENE MCR- 4	2021/07/07
2021/04728	RECYCLABLE ANCHOR ROD WITH EXTERNAL FRICTIONAL NAILS	2021/07/07
2021/04729	RETRACTABLE WELL WALL JOINT SUITABLE FOR DEEP STRATUM AND ITS CONSTRUCTION METHOD	2021/07/07
2021/04759	SWITCH CABINET PRESSURE RELIEF DEVICE AND SWITCH CABINET	2021/07/07
2021/04766	EFFICIENT COAL SLIME WATER CONCENTRATION TANK	2021/07/07
2021/04767	PREPARATION METHOD OF AN ACID ALKALI AND SALT RESISTANT PVDF COMPOSITE MEMBRANE	2021/07/08

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	FOR OIL-WATER SEPARATION	
2021/04768	METHOD FOR FINISHING SUPER-HYDROPHOBIC SELF-CLEANING SOLID WOOD COMPOSITE FLOOR BOARD	2021/07/08
2021/04769	SEGMENTED HOLLOW GROUTING ANCHOR CABLE AND USE METHOD	2021/07/08
2021/04784	AN AGRICULTURAL COMPOSITION	2020/01/08
2021/04785	A LIQUID AGRICULTURAL ADJUVANT	2020/01/08
2021/04788	A LIQUID ANTI-PATHOGENIC AGRICULTURAL COMPOSITION	2020/01/08
2021/04797	GRAFT POLYURETHANE-BASED COMPOSITE DAMPING MATERIAL WITH ADJUSTABLE STIFFNESS AND ITS PREPARATION METHOD	2021/07/09
2021/04798	AN IN-TRANSIT LOGISTICS INFORMATION SUPERVISION SYSTEM AND METHOD THEREOF	2021/07/09
2021/04799	A TOOLBOX FOR FIELD SURVEY OF CONSTRUCTION PROJECTS	2021/07/09
2021/04800	DEVICE FOR REELING THE YOGA MAT	2021/07/09
2021/04801	MULTIFUNCTIONAL TRUE TRIAXIAL TESTER FOR ROCK AND SOIL AND AN INSTRUCTIONS FOR OPERATION	2021/07/09
2021/04802	MOBILE PHONE WITH A HIDDEN EARPHONE HOLE SWITCH	2021/07/09
2021/04803	SALINE LAND IMPROVER FOR WHEAT CULTIVATION	2021/07/09
2021/04804	METHODS FOR CHARACTERIZING SOIL NITROGEN MINERALIZATION	2021/07/09
2021/04842	MODIFIED NICKEL PHYLLOSILICATE AND PREPARATION METHOD THEREOF AND EPOXY RESIN COMPOSITES	2021/07/12
2021/04843	FAST LOADING DEVICE AND AN ANCHOR PROPULSION DEVICE FOR FULL-LENGTH ANCHORAGE SUPPORT PROCESSING	2021/07/12
2021/04844	GREEN AND WATER-RETENTION SYSTEM FOR COAL-URANIUM COORDINATED EXPLOITATION AND THE APPLICATION METHOD THEREOF	2021/07/12
2021/04845	TEST METHOD FOR MORPHOLOGICAL SULFUR IN COAL	2021/07/12
2021/04853	MOBILE TRANSMISSION TERMINAL FOR DOWNHOLE SAFETY INFORMATION	2021/07/12
2021/04854	DISTRIBUTED RANDOM FOREST METHOD FOR RISK ASSESSMENT OF COMMUNICATION NETWORK	2021/07/12
2021/04855	PLASTERING MORTAR USING WASTE GYPSUM AS CEMENTING MATERIAL AND PREPARATION METHOD THEREOF	2021/07/12
2021/04856	SERIAL INFLATION CAPSULE SYSTEM FOR SIMULATING COAL SEAM MINING IN THREE- DIMENSIONAL SIMILARITY EXPERIMENT AND METHOD FOR OPERATING THE SAME	2021/07/12
2021/04859	APPARATUS AND METHOD FOR BLOCKING LARGE FLOWING-WATER CHANNEL WITH	2021/07/12

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	WATER INRUSH INTEGRATING DRILLING, MESHED FRAME, BALLOON, AND GROUTING	
2021/04902	GREEN SYSTEM FOR COAL AND OIL-GAS COORDINATED EXPLOITATION AND THE APPLICATION METHOD THEREOF	2021/07/13
2021/04905	SPECTACULAR FISH CULTURING METHOD AND AQUARIUM FOR SPECTACULAR FISH CULTURING	2021/07/13
2021/04907	GREEN AND PRECISE SYSTEM FOR COAL- URANIUM COORDINATED EXPLOITATION	2021/07/13
2021/04928	ELECTRIC-FIRING POWDER HEAD FOR DETONATOR	2021/07/13
2021/04929	HIGH-ENERGY NONEL TUBE	2021/07/13
2021/04930	METHOD FOR EXPLOSIVELY SYNTHESIZING NANOSCALE LITHIUM IRON PHOSPHATE BATTERY MATERIAL	2021/07/13
2021/04931	MINIMIZED PRIMARY EXPLOSIVE FOR DETONATOR	2021/07/13
2021/04932	DNT-CONTAINING COMPOSITE PRIMARY EXPLOSIVE	2021/07/13
2021/04933	MULTIGRAIN PANCAKE BIOLOGICAL SELF- RAISING FLOUR AND PRODUCTION METHOD AND APPLICATION THEREOF	2021/07/13
2021/04934	HIGH-EFFICIENCY FREEZING WALL COLD ENERGY RECOVERY AND UTILIZATION DEVICE AND OPERATION METHOD	2021/07/14
2021/04935	MEDICAL IMAGE WATERMARKING METHOD BASED ON SEQUENCE EVEN SPREAD SPECTRUM	2021/07/14
2021/04936	HIGHLY ACTIVE STRAW BIOCHAR AND ITS PREPARATION METHOD	2021/07/14
2021/04938	PREPARATION METHOD OF TIRE TREAD WITH NO CUSHION CORD PLY	2021/07/14
2021/04957	SELF-LOCKING DEVICE FOR ANTI-FALLING RAIL	2021/07/14
2021/04961	RELEASE AGENT SPRAYING DEVICE USED IN SG ABRASIVE GRAIN PRODUCTION PROCESS	2021/07/14
2021/04965	SMALL UNMANNED BOAT DRIVE SHAFT SYSTEM GREASE SEAL ANTI-LEAKAGE DEVICE	2021/07/15
2021/04966	PREPARATION METHOD OF MILK CLARIFICANT AND APPLICATION THEREOF	2021/07/15
2021/04967	A THREE-DIMENSIONAL GRAPHENE GAS SENSITIVE SENSOR AND ITS PREPARATION METHOD	2021/07/15
2021/04971	EXPERIMENTAL APPARATUS FOR INFLUENCE OF SUPERFINE WATER MISTS ON EXPLOSIVE CHARACTERISTIC OF COMBUSTIBLE GAS AND METHOD OF USE THEREFOR	2021/07/15
2021/04972	EXPERIMENTAL SYSTEM FOR SUPPRESSING PROPAGATION OF COMBUSTIBLE GAS EXPLOSION AND EXPERIMENTAL METHOD THEREFOR	2021/07/15
2021/05052	DATA PROCESSING METHOD FOR DNA	2021/07/19

COMPUTING2021/05053DEMONSTRATIVE TEACHING AID FOR USE IN TEACHING OF MECHANICAL DRAWING2021/07/192021/05128AUTOMATIC BUNDLING DEVICE FOR VEGETABLES2021/07/212021/05129DOUBLE-ROW CARROT COMBINE HARVESTER 2021/051302021/07/212021/05130PROBIOTIC COMPOUND-BASED ANTIBOTIC- FREE GRANULAR PIG FEED AND PREPARATION METHOD THEREOF2021/07/212021/05131MODEL TARGET COORDINATE FEEDBACK SYSTEM BASED ON MATLAB2021/07/212021/05132TEACHING AND FOR TEACHING MATHEMATICS AND APPLIED MATHEMATICS 2021/051332021/07/212021/05134SUPPORT BRACKET FOR SPRAYER FOR SETTLING DUST OF COAL MINE OONSTRUCTION OF SINONOVACULA CONSTRUCTION OF SINONOVACULA CONSTRUCTION OF SINONOVACULA CONSTRUCTION OF SINONOVACULA CONSTRUCTION OF SINONOVACULA CONSTRUCTON OF SINONOVACULA CONSTRUCTION PROCESS2021/07/212021/05169HYBRID APPLE SEED & Quot, 1ST-CONTROL 2ND- CATALYSIS SIND-CULTURE KERSTEP STRATIFICATION CULTURE METHOD2021/07/222021/05170METHOD, DEVICE AND COMPUTER FOUPMENT FOR SCREENING CHARACTERISTIC WAVELENGTH OF FULORESCENCE SPECTRUM, AS WELL AS READABLE STORAGE MEDIUM AS WELL AS READABLE STORAGE MEDIUM AS WELL AS READABLE STORAGE MEDIUM AD SCRAPHING BEVICE SED IN SG ABRASIVE PRODUCTION PROCESS2021/07/2220	Application Number	Patent Title	Filing Date
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2021/05208 POWDER DRY-PRESSING MOLDING DEVICE AND 2021/07/22		MEDICAL CARE AND HEALTH	
	2021/05208	POWDER DRY-PRESSING MOLDING DEVICE AND	2021/07/22

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	METHOD	
2021/05209	SAME-CAVITY INTEGRATED VERTICAL HIGH- SPEED MULTISTAGE SUPERFINE PULVERIZING DEVICE AND METHOD FOR WALNUT SHELLS	2021/07/22
2021/05215	OKRA POLYSACCHARIDE EXTRACT AND ITS PREPARATION METHOD AND APPLICATION	2021/07/23
2021/05216	FABRICS FOR AUTOCATALYTIC SEWAGE TREATMENT	2021/07/23
2021/05217	ELECTRIC SUGARCANE HARVESTER	2021/07/23
2021/05337	ORGANIC-INORGANIC COMPOSITE INTERCALATION LAYERED DOUBLE HYDROXIDES-BASED CORROSION INHIBITOR, AND PREPARATION METHOD AND APPLICATION THEREOF	2021/07/28
2021/05371	DISHWASHER WATER FILTER SYSTEM AND DISHWASHER WASHING PROGRAM	2021/07/29
2021/05374	A METHOD FOR ECOLOGICAL ENVIRONMENT- FRIENDLY CIRCULATING BEEF CATTLE BREEDING	2021/07/29
2021/05375	MODIFICATION TECHNOLOGY OF HIGHLAND BARLEY BRAN AND ITS APPLICATION	2021/07/29
2021/05376	MULTIFUNCTIONAL RIDGING MACHINE	2021/07/29
2021/05377	AIR POLLUTION RISK EARLY WARNING METHOD AND SYSTEM	2021/07/29
2021/05378	METHOD FOR PRODUCING CHEMICALS FROM CRUDE OIL BY DOUBLE-TUBE PARALLEL MULTI- ZONE CATALYTIC CONVERSION	2021/07/29
2021/05379	AXIS PINHOLE AMERICAN GINSENG PNEUMATIC PRECISION PLANTER	2021/07/29
2021/05380	METHOD FOR PROPPANT FOR WATER-BASED FRACTURING FLUIDS	2021/07/29
2021/05381	METHOD FOR CONSTRUCTING AGROBACTERIUM-MEDIATED GENETIC TRANSFORMATION SYSTEM OF BOTRYTIS CINEREA IN GRAPE	2021/07/29
2021/05417	TWO-STAGE VACUUM-PUMPING EXPLOSION PROCESSING PLATFORM IN A SPHERICAL TANK	2021/07/30
2021/05418	SPHERICAL PHOSPHOGYPSUM, AND PREPARATION METHOD AND USE THEREOF	2021/07/30
2021/05419	A METHOD AND DEVICE FOR REALIZING HUMAN- COMPUTER INTERACTION BASED ON CAMERA	2021/07/30
2021/05420	BIG DATA IMPLEMENTATION SYSTEM AND METHOD BASED ON NETWORK SECURITY	2021/07/30
2021/05547	PREPARATION METHOD AND APPLICATION OF SULFUR MODIFIED ACTIVE CARBON SUPPORTED NOBLE METAL CATALYST	2021/08/06
2021/05548	DUCK STEAK AND PREPARATION METHOD THEREOF	2021/08/06
2021/05549	THREE-DIMENSIONAL INTEGRATION SYSTEM OF SNAIL-FISH-PLANT FOR CONTROLLING WATER EUTROPHICATION	2021/08/06
2021/05551	REMOTE CONTROL PLATFORM FOR DIGITAL	2021/08/06

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	MEDIA ART EXHIBITION	
2021/05552	INTELLIGENT CLOTHING DESIGN SYSTEM	2021/08/06
2021/05553	GAS PERMEABLE BRICK CONTAINING CORUNDUM CERAMIC BALLS AND PREPARATION METHOD THEREOF	2021/08/06
2021/05604	METHOD FOR PREPARING IMPROVED NUTRIENT SOIL FROM MUNICIPAL SLUDGE	2021/08/10
2021/05605	GREEN PLANTING REMEDIATION METHOD FOR HEAVY METAL POLLUTED SOIL	2021/08/10
2021/05606	BIAXIAL PHOTOVOLTAIC DEVICE AND SYSTEM FOR CONTROLLING GREENHOUSE ENVIRONMENT	2021/08/10
2021/05607	UNIVERSAL TEST DEVICE FOR SIMULATING IMPACT CHARACTERISTICS OF DEBRIS FLOW IN DEBRIS FLOW DITCH AND USING METHOD THEREOF	2021/08/10
2021/05608	EXTRACTION METHOD OF NITRIFICATION INHIBITORS FROM CAMELLIA OLEIFERA SHELL AND ITS APPLICATION IN AGRICULTURAL SOILS	2021/08/10
2021/05609	BUS FAULT AREA DETERMINATION METHOD BASED ON POWER FREQUENCY POLARITY COMPARISON	2021/08/10
2021/05610	PARALLEL ROLLING TYPE CONTINUOUS DRYING MACHINE	2021/08/10
2021/05611	A CROSS-INDUSTRY ACCOUNTING DATA PROCESSING METHOD AND SYSTEM	2021/08/10
2021/05612	HIGH-TEMPERATURE CYCLE EXPERIMENTAL FACILITY FOR ROCKS	2021/08/10
2021/05614	METHOD FOR MAKING HYDROPHOBICALLY MODIFIED XANTHAN GUM SOLUTION AND APPLICATION THEREOF	2021/08/10
2021/05616	A RECLAIMED WATER TREATMENT UNIT, SYSTEM AND REGULATION METHOD	2021/08/10
2021/05618	BLASTING APPARATUS FOR ROCK UNDER MINE	2021/08/06
2021/05626	HIGH-VOLTAGE SWITCH CABINET SYSTEM AND METHOD FOR REPLACING HIGH-VOLTAGE SWITCH CABNET THEREOF	2021/08/10
2021/05671	A TYPE OF CHICKEN FEED CONTAINING MICROALGAE AND CHINESE HERBAL MEDICINE AND THE PREPARATION METHOD THEREOF	2021/08/10
2021/05673	DEVICE FOR ENRICHING USEFUL ELEMENTS IN FLUID AT HYDROTHERMAL VENT	2021/08/11
2021/05674	LABORATORY TEST AND APPLICATION OF A SINGLE-SIDE ANNULAR SLIT SHAPED POLYENERGY GRAIN	2021/08/11
2021/05675	INFRARED TEMPERATURE MEASURING DEVICE FOR SUBMARINE VENT FLUIDS BASED ON ROV OPERATION	2021/08/11
2021/05704	PAPER-BASED MATERIAL SURFACE COATING AGENT, WRAPPING PAPER AND PREPARATION METHOD THEREOF	2021/08/12
2021/05705	NEW METHOD FOR BREEDING ABALONE SPAT	2021/08/12

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2021/05706	PRIMER AND PROBE AND KIT FOR FLUORESCENCE QUANTITATIVE PCR OF NUCLEIC ACID IN HUMAN MACROPHAGE	2021/08/12
2021/05736	METHOD, DEVICE AND READABLE MEDIUM FOR EVALUATING STRUCTURAL STRENGTH OF FIBER AND NANO REINFORCED CONCRETE	2021/08/04
2021/05771	NOVEL ANTI-CLOGGING SLUDGE INCINERATION EQUIPMENT	2021/08/13
2021/05772	METHOD FOR DIAGNOSING DEFECTS OF RIGID TANK CHANNEL IN MINE VERTICAL SHAFT	2021/08/13
2021/05773	NONLINEAR MULTI-DIRECTIONAL PIEZOELECTRIC ENERGY HARVESTING DEVICE AND ENERGY HARVESTING METHOD	2021/08/13
2021/05911	MULTI-MODE TRAFFIC SYSTEM OPTIMIZING AND DIAGNOSING METHOD BASED ON DIGITAL TWIN	2021/08/18
2021/05912	WELSH ONION HARVESTER	2021/08/18
2021/05913	COMBINED CUTTING METHOD OF SMALL HOLE REINFORCED FRACTURING GRAIN AND SINGLE- SIDE CIRCUMFERENTIAL SLIT GRAIN	2021/08/18
2021/05914	INTELLIGENT MONITORING APPARATUS BASED ON INDUSTRIAL ROBOT	2021/08/18
2021/05915	HIGH-FREQUENCY VIBRATION ENERGY AMPLIFICATION DEVICE WITH CLAMPING APPARATUS FOR SMALL WORK-PIECE	2021/08/18
2021/05919	MUSHROOM PLANTING HOLDER	2021/08/18
2021/05923	AN ETHYLENE-PROPYLENE-DIENE MONOMER (EPDM) RUBBER PROTECTING SLEEVE FOR WIRES AND CABLES AND A METHOD FOR PREPARING THE SAME	2021/08/18
2021/05951	SOLAR ENERGY TYPE ORGANIC WASTE TREATMENT EQUIPMENT AND APPLICATION METHOD THEREOF	2021/08/19
2021/05952	NON-SURGICAL EMBRYO COLLECTION TOOL	2021/08/19
2021/05954	DEVICE AND METHOD FOR PREPARING HIGH- ICE CONTENT FROZEN SOIL SAMPLE	2021/08/19
2021/05955	CONSTRUCTION METHOD FOR CELL-LIKE MEMBRANE COMPUTING MODEL	2021/08/19
2021/05957	INTELLIGENT SWITCHING SYSTEM FOR SWITCHING INTERNAL COOLING AND EXTERNAL COOLING BASED ON MINIMAL QUANTITY LUBRICATION AND METHOD	2021/08/19
2021/05962	METHOD AND SYSTEM FOR A SECURE TRANSACTION	2021/08/19
2021/06178	SELENIUM-RICH SILICON-CONTAINING FOLIAR INHIBITOR FOR INHIBITING HEAVY METALS IN RICE AND PREPARATION METHOD THEREOF	2021/08/26
2021/06179	DISTRIBUTED AIRSHIP CONTROL SYSTEM	2021/08/26
2021/06180	REMOTE PLANNING METHOD OF UNMANNED AERIAL VEHICLE AIR SAFETY CORRIDOR PATH	2021/08/26
2021/06181	PREPARATION METHOD OF MEAT-FLAVORED POTATO CHIPS	2021/08/26
2021/06182	3 BETA-HYDROXY-5 ALPHA,8 ALPHA-	2021/08/26

Application Number	Patent Title	Filing Date
	EPIDIOXYANDROST-6-ENE-17-N-((3-PHENYL-4- (AROMATIC RING SUBSTITUTED)) THIAZOLE-2)- HYDRAZONE DERIVATIVES AND PREPARATION AND APPLICATION THEREOF	
2021/06183	PROCESSING TECHNIQUE FOR PRODUCING RUBBER AUTO PARTS	2021/08/26
2021/06184	A DIFFERENTIAL PRESSURE COMPRESSOR GAS LIFT WELLHEAD PRESSURE RELIEF DEVICE AND A PRESSURE RELIEF METHOD THEREOF	2021/08/26
2021/06207	ELECTROCALORIC ASSISTED INTERNAL COOLING TEXTURE TURNING TOOL AND NANOFLUID MINIMAL QUANTITY LUBRICATION INTELLIGENT WORKING SYSTEM	2021/08/26
2021/06208	ULTRASONIC WIND SPEED SENSOR FOR DOWNHOLE COAL MINES	2021/08/26
2021/06209	CR-NI TYPE AUSTENITIC HEAT-RESISTANT STEEL WITH IN-SITU PRECIPITATED REINFORCING PHASE, AND MANUFACTURING PROCESS AND USE THEREOF	2021/08/26
2021/06221	THE MANUFACTURING METHOD AND APPLICATION OF CL BAMBOO-WOOD COMPOSITE STRUCTURE MATERIAL	2021/08/27
2021/06222	MEDICAL IMAGE FUSION METHOD BASED ON NSST AND IMPROVED ADAPTIVE PCNN	2021/08/27
2021/06223	PUMP FOR PREVENTING CLOGGING AND THROMBOSIS AFTER TUBE SEALING OF INDWELLING NEEDLE AND WORKING METHOD THEREOF	2021/08/27
2021/06224	WATER-RETAINING AND SLOW-RELEASE COMPOUND FERTILIZER AND PREPARATION METHOD THEREOF	2021/08/27
2021/06225	PRECISE FEEDING CONTROL SYSTEM AND METHOD BASED ON SHRIMP POND FEEDING BOAT	2021/08/27
2021/06226	URINARY CATHETER	2021/08/27
2021/06227	METHOD AND DEVICE FOR ANALYZING DATA OF TIME-SERIES LITERATURE BASED ON DYNAMIC NETWORK ANALYSIS	2021/08/27
2021/06242	DEVICE AND METHOD FOR PREPARING MIXED ICE-GLAZING SOLUTION	2021/08/27
2021/06462	MOP HEAD	2021/09/03
2021/06498	FORECASTING SYSTEM, METHOD AND DEVICE FOR PICKUP AND RETURN DEMAND OF PUBLIC BICYCLE	2021/09/06
2021/06501	A FORMULA FOR TREATING CARDIOVASCULAR AND CEREBROVASCULAR DISEASES AND PREPARATION METHOD THEREOF	2021/09/06
2021/06507	FERTILIZATION METHOD OF RICE AND WHEAT CROP ROTATION SYSTEM	2021/09/06
2021/06540	DEVICE AND METHOD FOR DETECTING MICRO- DAMAGE INSIDE SHIELD TUNNEL SEGMENT	2021/09/07
2021/06541	PREPARATION METHOD OF CELLULOSE	2021/09/07

Application Number	Patent Title	Filing Date
	SPONGE FOR COPPER ION ADSORPTION	
2021/06542	HIGH-PRECISION ELECTRIFIED CONSTANT-	2021/09/07
	TEMPERATURE TEST PAPER AND PREPARATION	
	METHOD THEREOF	
2021/06543	PREPARATION METHOD OF CELLULOSE	2021/09/07
	SPONGE REINFORCED BY NANO-CELLULOSE	
2021/06544	PRODUCT QUALITY TESTER FOR ISOTHERMAL	2021/09/07
	QUENCHING FURNACE OF BINDER CLIP	
2021/06591	VIBRATORY STRESS RELIEF CLAMPING DEVICE	2021/09/08
2021/06592	THE ACTION SIMULATOR FOR NATIONAL	2021/09/08
	TRADITIONAL MARTIAL ARTS SKILL ATTACKS	
	TRAINING	
2021/06593	ENERGY-SAVING SELF-CIRCULATING DOMESTIC	2021/09/08
	WASTEWATER PURIFICATION AND LIGHTING	
	SYSTEM	
2021/06596	A METHOD FOR IDENTIFYING TRAVEL MODE	2021/09/08
	BASED ON GPS TRAJECTORY DATA AND	
00004/000040		0001/00/00
2021/06642	POLYMER SAMPLE PREPARATION SYSTEM AND	2021/09/09
0001/00010		0001/00/00
2021/06643		2021/09/09
	STSTEM BASED ON MULTI-SOURCE BIG DATA	
2021/06644		2021/00/00
2021/06044		2021/09/09
	RECTANCI AR SPECIMEN SPI ITTING METHOD	
2021/06645		2021/00/00
2021/00043	METHOD OF TITANIUM ALLOYS	2021/03/03
2021/06649	PYROELECTRIC CATALYST FOR TREATING DYE	2021/09/09
2021/00043	FEELIENT UNDER ALTERNATING COLD AND	2021/00/00
	HOT AT AMBIENT TEMPERATURE	
	PREPARATION METHOD AND APPLICATION	
	THEREOF	
2021/06659	METHOD FOR DETERMINING MICROSEISMIC	2021/09/09
	PARAMETER THRESHOLD OF ROCKBURST	
	INTENSITY WARNING	
2021/06747	SOIL CONDITIONER FOR TREATING HEAVY	2021/09/13
	METAL POLLUTIONS IN FARMLANDS AND	
	PREPARATION METHOD THEREOF	
2021/06748	MEDICINAL POWDER FOR TREATING BURNS	2021/09/13
	AND SCALDS AND PREPARATION METHOD	
	THEREOF	
2021/06749	METHOD FOR PREPARING BLACK HIGHLAND	2021/09/13
	BARLEY NATTO PRESSED CANDY FOR	
	REGULATING GLUCOSE AND LIPID METABOLISM	
2021/06774	SYSTEMS AND METHODS FOR REMOVABLE	2021/09/13
	BATTERY LOCKING	

DESIGNS

Advertisement List for September 2021

Number of Advertised Designs: 114

Application Number	Design Articles	Filing Date
A2016/01942	IRRIGATION DEVICE	2016/12/15
A2018/00311	HORSE-SHOE DESIGN WITH	2018/02/27
	CROSS RIB SQUARE PATTERN	
A2019/00428	DOMESTIC SODA-WATER	2019/04/02
	PREPARING DEVICES	
A2019/00430	BOTTLES	2019/04/02
A2019/00431	BOTTLES	2019/04/02
A2019/01505	CARRYING DEVICE	2019/10/09
A2020/00156	BARBECUE	2020/02/10
A2020/00161	BARBECUE	2020/02/11
A2020/00163	FIREPLACE	2020/02/11
A2020/00178	A CLIMBING FRAME	2020/02/13
A2020/00532	INHALERS	2020/05/06
A2020/00570	ANIMAL TAG APPLICATOR	2020/05/11
A2020/00636	ORAL CARE IMPLEMENTS	2020/05/22
A2020/00637	ORAL CARE IMPLEMENTS	2020/05/22
A2020/00638	ORAL CARE IMPLEMENTS	2020/05/22
A2020/00639	ORAL CARE IMPLEMENTS	2020/05/22
A2020/00864	Logo	2020/06/19
A2020/00865	Logo	2020/06/19
A2020/00866	Logo	2020/06/19
A2020/00867	Logo	2020/06/19
A2020/00868	Logo	2020/06/19
A2020/00869	Logo	2020/06/19
A2020/00870	Logo	2020/06/19
A2020/00871	Logo	2020/06/19
A2020/00872	Logo	2020/06/19
A2020/00873	Logo	2020/06/19
A2020/00874	Logo	2020/06/19
A2020/01008	DISPLAY AND CONTROL ELEMENTS	2020/07/20
A2020/01009	DISPLAY AND CONTROL ELEMENTS	2020/07/20
A2020/01010	DISPLAY AND CONTROL ELEMENTS	2020/07/20
A2020/01161	ADJUSTABLE PILLOW INSERT	2020/08/27
A2020/01588	HOUSING FOR A GAMING MACHINE	2020/12/04
A2020/01592	PROSTHETIC LEG	2020/12/08
A2020/01600	ATTACHABLE CONTAINER	2020/12/10
A2020/01601	FOLDABLE STEP/STOOL/TABLE WITH ATTACHABLE CONTAINER	2020/12/10
A2020/01603	LOGO	2020/12/10
A2020/01604	LOGO	2020/12/10
A2020/01607	Card Holder	2020/12/10
A2020/01608	Developing Cartridge	2020/12/10
A2020/01623	GOGGLES	2020/12/15
A2020/01644	A LOAD BIN COVER	2020/12/18
L		

Application Number	Design Articles	Filing Date
A2020/01647	TIRES	2020/12/18
A2020/01648	SUNGLASSES	2020/12/18
A2020/01649	SUNGLASSES	2020/12/18
A2020/01650	SUNGLASSES	2020/12/18
A2020/01651	IRONING BOARDS	2020/12/18
A2020/01652	IRONING BOARDS	2020/12/18
A2020/01659	AUTOMOBILE	2020/12/22
A2020/01660	LOGO, GRAPHIC SYMBOL,	2020/12/22
	SURFACE PATTERN, OR	
	ORNAMENTATION	
A2020/01661	LOGO, GRAPHIC SYMBOL,	2020/12/22
	SURFACE PATTERN, OR	
	ORNAMENTATION	
A2020/01662	LOGO, GRAPHIC SYMBOL,	2020/12/22
	SURFACE PATTERN, OR	
	ORNAMENTATION	
A2020/01664	LOGO, GRAPHIC SYMBOL,	2020/12/22
	SURFACE PATTERN, OR	
4.0000/04070		0000/10/00
A2020/01670	ABSORBENT ARTICLES	2020/12/22
A2020/01671	ABSORBENT ARTICLES	2020/12/22
A2020/01672		2020/12/22
40000/04070		0000/40/00
A2020/01673		2020/12/22
A 2020/01675		2020/12/22
A2020/01675		2020/12/23
A2020/01677		2020/12/23
A2020/01678		2020/12/23
A2020/01679		2020/12/23
A2020/01680		2020/12/23
A2020/01681		2020/12/23
A2020/01682		2020/12/23
A2020/01683		2020/12/23
A2020/01684		2020/12/23
A2020/01685		2020/12/23
A2020/01686		2020/12/23
A2020/01687		2020/12/23
A2020/01688		2020/12/23
A2020/01689		2020/12/23
A2020/01690		2020/12/23
A2020/01691		2020/12/23
A2020/01692		2020/12/23
A2020/01693		2020/12/23
A2020/01694		2020/12/23
A2020/01695	JEWELLERY	2020/12/23
A2020/01696		2020/12/23
A2020/01697		2020/12/23
A2020/01698	Charger	2020/12/23
A2020/01699	Charger	2020/12/23
A2021/00030		2021/01/21
		2021/01/21

Application Number	Design Articles	Filing Date
A2021/00038	BIRD REPELLENT DEVICE	2021/01/21
A2021/00045	INSECT TRAP COMPONENT	2021/01/26
A2021/00088	TANK	2021/02/04
A2021/00154	SHOT IMPACT INDICATOR	2021/02/16
A2021/00156	MOTORCYCLE DELIVERY BOX	2021/02/17
A2021/00166	BARBECUE ACCESSORY	2021/02/19
A2021/00959	PAGE OF AN EXERCISE BOOK	2021/08/12
A2021/00962	PAGE OF AN EXERCISE BOOK	2021/08/13
A2021/00964	PAGE OF AN EXERCISE BOOK	2021/08/13
F2019/01871	WATER FILTER	2019/12/17
F2020/00155	BARBECUE	2020/02/10
F2020/00162	FIREPLACE	2020/02/11
F2020/00922	HYGIENIC DEVICE FOR CONTAINER	2020/07/01
F2020/01031	SPRINKLER HOUSING	2020/07/28
F2020/01121	FIRE STARTING DEVICE	2020/08/17
F2020/01162	ADJUSTABLE PILLOW INSERT	2020/08/27
F2020/01240	BARBECUE TOOL	2020/09/17
F2020/01362	COLLAPSIBLE BARRIER	2020/10/15
F2020/01427	EGG PACKAGING SLEEVE	2020/11/05
F2020/01593	PROSTHETIC LEG	2020/12/08
F2020/01602	FOLDABLE STEP/TABLE	2020/12/10
F2020/01645	A MEMBER OF A LOAD BIN COVER	2020/12/18
F2020/01646	A MEMBER OF A LOAD BIN COVER	2020/12/18
F2020/01657	CONVECTION OVEN	2020/12/21
F2021/00037	BIRD REPELLENT DEVICE	2021/01/21
F2021/00046	INSECT TRAP COMPONENT	2021/01/26
F2021/00090	GUTTER	2021/02/04
F2021/00157	MOTORCYCLE DELIVERY BOX	2021/02/17
F2021/00167	BARBECUE ACCESSORY	2021/02/19
F2021/00960	PAGE OF AN EXERCISE BOOK	2021/08/12
F2021/00961	PAGE OF AN EXERCISE BOOK	2021/08/12
F2021/00963	PAGE OF AN EXERCISE BOOK	2021/08/13

OTHER NOTICES





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COMPANIES AND INTELLECTUAL PROPERTY COMMISSION (CIPC)

Taking into consideration that CIPC official office days are Mondays to Fridays and does not include week-ends or public holidays, notice is hereby given in terms of and for purposes of the Acts mentioned in the Schedule below, that CIPC will be closed to the public from **10h00 on Friday 24 December 2021 up to and including Friday 31 December 2021.**

The CIPC Offices at -

- a) the Department of Trade, Industry and Competition (the dtic) (77 Meintjies Street, Block F Entfutfukweni) in Sunnyside, Pretoria;
- b) 1st floor, Office 103, Sancardia 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, 1978 Copyright Act, 1978 Companies Act, 2008 Close Corporations Act, 1984 Co-operatives Act, 2005 Registration of Copyright in Cinematograph Film Act, 1977

Kind regards. Rory Voller 29/06/2021 13:18:35 (UTC+02:00) Signed by Rory Voller, RVoller@cipc.co.za

Rory Voller Commissioner: CIPC

> The dti Campus (Block F - Entfutfukweni), 77 Meintjies Street, Sunnyside, Pretoria I P O Box 429, Pretoria, 0001 Call Centre: 086 100 2472 Website: www.cipc.co.za