

# PATENT JOURNAL

INCLUDING TRADE MARKS, DESIGNS AND  
COPYRIGHT IN CINEMATOGRAPH FILMS

**APRIL 2024**

**VOL 57 • No. 04**



Companies and Intellectual  
Property Commission

a member of the **dtic** group

## Part II of II

---

**ISSUED MONTHLY**

**DATE OF ISSUE: 24 APRIL 2024**

---

**ISSN 2223-4837**

# PATENT JOURNAL

INCLUDING TRADE MARKS, DESIGNS AND  
COPYRIGHT IN CINEMATOGRAPH FILMS

**VOL. 57 No. 04**

**Date of Issue: 24 APRIL 2024**

## **PATENTS, TRADE MARKS, DESIGNS AND COPYRIGHT OFFICE**

*Official notices of proceedings under:*

The Patents Act, 1978

The Designs Act, 1993

The Trade Marks Act, 1963

The Trade Marks Act, 1993

The Registration of Copyright in Cinematograph Films Act, 1977

**Registrar of Patents, Trade Marks, Designs and Copyright**

**Note:** CIPC acting on behalf of the Government of the Republic of South Africa, cannot guarantee the accuracy of its publications or undertake any responsibility for errors or omissions or their consequences.

**TABLE OF CONTENTS**

<b>2. PATENTS</b>	4
APPLICATIONS FOR PATENTS	5
ASSIGNMENTS IN TERMS OF SECTION 60-REGULATIONS 58-60 AND 64 (1)	148
CHANGE OF NAME IN TERMS OF REGULATION 39	150
PATENT LICENSES IN TERMS OF SECTION 60-REGULATIONS 58-60 AND 64	151
PATENT APPLICATIONS ABANDONED OR WITHDRAWN	151
APPLICATION FOR RESTORATION OF A LAPSED PATENT	151
VOLUNTARY SURRENDER OF A PATENT UNDER SECTION 64 (1), REGULATION 67 OF THE ACT	152
APPLICATION FOR CORRECTION OF A PATENT IN TERMS OF SECTION 50 OF THE ACT	152
APPLICATIONS TO AMEND SPECIFICATION	153
INSPECTION OF SPECIFICATIONS	155
HYPOTHECATIONS	406
JUDGMENTS	406
OFFICE PRACTISE NOTICES	406
<b>3. DESIGNS</b>	407
APPLICATIONS FOR REGISTRATION OF DESIGNS IN TERMS OF ACT No. 195 OF 1993	408
CHANGE OF NAME IN TERMS OF REGULATION 24	411
APPLICATION FOR THE RESTORATION OF A LAPSED DESIGN UNDER SECTION 23 OF THE ACT	411
APPLICATION TO CORRECT AND/OR AMEND DESIGNS APPLICATION OR REGISTRATION	412
NOTICE OF REGISTRATION OF DESIGNS	412
HYPOTHECATIONS	451
JUDGMENTS	451
OFFICE PRACTISE NOTICES	451
<b>4. COPYRIGHT</b>	452
NOTICES OF ACCEPTANCE	453
HYPOTHECATIONS	457
JUDGMENTS	457
OFFICE PRACTICE NOTICES	457
<b>5. CORRECTION NOTICES</b>	458
TRADE MARK CORRECTION NOTICES	459
PATENT CORRECTION NOTICES	459
DESIGN CORRECTION NOTICES	459
COPYRIGHT CORRECTION NOTICES	459
<b>PATENTS</b>	460
<b>DESIGNS</b>	493

## 2. PATENTS



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

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

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

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

- APPLIED ON 2024/02/25 -

2024/01648 ~ Complete ~54:PYRIDINE DERIVATIVES AND THEIR USE AS SODIUM CHANNEL ACTIVATORS  
~71:XENON PHARMACEUTICALS INC., 200-3650 Gilmore Way, Burnaby, British Columbia, V5G 4W8, Canada  
~72: HELEN CLEMENT;JAN FELIX SCHOLTES;JULIETTE SABBATANI;JUNG YUN KIM;KRISTEN  
BURFORD;PAUL CHARIFSON;SHAOYI SUN;SHAWN JOHNSTONE;VERNER LOFSTRAND;WEI ZHANG~  
33:US ~31:63/248,330 ~32:24/09/2021

2024/01637 ~ Complete ~54:CLOUD COMPUTING-BASED NETWORK RESOURCE MANAGEMENT SYSTEM  
~71:HEBEI CHEMICAL AND PHARMACEUTICAL COLLEGE, No. 88 Fangxing Road, Yuhua District,  
Shijiazhuang, Hebei, 050026, People's Republic of China ~72: CHANG, Lei~

2024/01635 ~ Complete ~54:SILICA TO HIGH PURITY SILICON PRODUCTION PROCESS ~71:HPQ-SILICON  
RESOURCES INC., 3000 Omer-Lavallée Street, Canada ~72: CARABIN, Pierre;SHAHVERDI, Ali~ 33:US  
~31:62/202,452 ~32:07/08/2015

2024/01624 ~ Provisional ~54:SINGLE CONTINUOUS FLEXIBLE STRAP FOR SANDAL UPPER ~71:terome  
naidoo, 25 joubert place, South Africa ~72: terome naidoo~

2024/01644 ~ Complete ~54:GENETICALLY MODIFIED PRIMARY CELLS FOR ALLOGENEIC CELL THERAPY  
~71:SANA BIOTECHNOLOGY, INC., 188 East Blaine Street, Suite 400, Seattle, Washington, 98102, United  
States of America ~72: SONJA SCHREPFFER;XIAOMENG HU~ 33:US ~31:63/232,161 ~32:11/08/2021;33:US  
~31:63/297,694 ~32:07/01/2022;33:US ~31:63/344,502 ~32:20/05/2022;33:US ~31:63/348,990  
~32:03/06/2022;33:US ~31:63/353,531 ~32:17/06/2022

2024/01630 ~ Complete ~54:ORE DISSOLUTION AND IRON CONVERSION SYSTEM ~71:ELECTRASTEEL,  
INC., 6400 Lookout Rd., United States of America ~72: ALVAREZ, Adolfo;FATUR, Steven;NIJHAWAN,  
Sandeep;PHAM, Ai Quoc~ 33:US ~31:63/165,502 ~32:24/03/2021

2024/01625 ~ Provisional ~54:STUDY GENIUS ~71:Thekiso Ncheka, 17 Dr Herman van Schalkwyk , Panorama  
East , Bethlehem , Free State , 9701, South Africa ~72: Thekiso Ncheka~

2024/01628 ~ Complete ~54:2-STEP IRON CONVERSION SYSTEM ~71:ELECTRASTEEL, INC., 6400 Lookout  
Rd., United States of America ~72: ALVAREZ, Adolfo;FATUR, Steven;NIJHAWAN, Sandeep;PHAM, Ai  
Quoc;WALLACE, Colleen~ 33:US ~31:63/165,502 ~32:24/03/2021

2024/01632 ~ Complete ~54:SUBSTITUTED PYRIDOTRIAZINE COMPOUNDS AND USES THEREOF  
~71:GILEAD SCIENCES, INC., 333 LAKESIDE DRIVE, FOSTER CITY, United States of America ~72: CHU,  
HANG;GONZALEZ BUENROSTRO, ANA Z.;GUO, HONGYAN;HAN, XIAOCHUN;HURTLEY, ANNA E.;JIANG,  
LAN;LI, JIAYAO;LIN, DAVID W.;MITCHELL, MICHAEL L.;NADUTHAMBI, DEVAN;SCHWARZWALDER, GREGG

M.;SZEWCZYK, SUZANNE M.;VON BARGEN, MATTHEW J.;WU, QIAOYIN;YANG, HONG;ZHANG, JENNIFER R.~ 33:US ~31:63/139,237 ~32:19/01/2019;33:US ~31:63/190,461 ~32:19/05/2019

2024/01640 ~ Complete ~54:STABILISED COMPOSITIONS ~71:RUMIN8 PTY LTD, C/O ENDEAVOUR CORPORATE, SUITE 8, 7 THE ESPLANADE, MOUNT PLEASANT, WESTERN AUSTRALIA 6153, AUSTRALIA, Australia ~72: CALLAHAN, Matthew;SCADDING, Cameron, Jay~ 33:AU ~31:2021902391 ~32:03/08/2021

2024/01641 ~ Complete ~54:COMBINATION THERAPIES ~71:Versanis Bio, Inc., 1111 Broadway, Suite 1300, OAKLAND 94607, CA, USA, United States of America ~72: KLINKSTEIN, Lloyd Berl;MACHACEK, Matthias~ 33:US ~31:63/238,068 ~32:27/08/2021;33:US ~31:63/301,012 ~32:19/01/2022;33:US ~31:63/333,351 ~32:21/04/2022

2024/01639 ~ Complete ~54:SMALL MOLECULE INHIBITORS FOR ANTI-CANCER COMBINATION THERAPY ~71:UNIVERSITY OF CAPE TOWN, Lovers Walk, South Africa ~72: CHI, Ru-pin Alicia;LEANER, Virna Drucille;VAN DER WATT, Pauline Janet~

2024/01646 ~ Complete ~54:INDUCIBLE SYSTEMS FOR ALTERING GENE EXPRESSION IN HYPOIMMUNOGENIC CELLS ~71:SANA BIOTECHNOLOGY, INC., 188 East Blaine Street, Suite 400, Seattle, Washington, 98102, United States of America ~72: ELEONORE THAM;REBECA RAMOS-ZAYAS;SONJA SCHREPFER;WILLIAM DOWDLE~ 33:US ~31:63/232,141 ~32:11/08/2021;33:US ~31:63/270,454 ~32:21/10/2021

2024/01626 ~ Provisional ~54:ELECTRICAL GENERATOR ~71:STOREY, Jacques, 68 Dennis Shepstone Drive, South Africa ~72: STOREY, Jacques~

2024/01629 ~ Complete ~54:IMPURITY REMOVAL IN AN IRON CONVERSION SYSTEM ~71:ELECTRASTEEL, INC., 6400 Lookout Rd., United States of America ~72: ALVAREZ, Adolfo;FATUR, Steven;NIJHAWAN, Sandeep;PHAM, Ai Quoc~ 33:US ~31:63/165,502 ~32:24/03/2021

2024/01633 ~ Complete ~54:SAMPLE ADDING DEVICE OF ELECTRONIC BALANCE FOR TESTING ~71:Tai'an Institute for Food and Drug Control (Tai'an Fiber Inspection Institute), No.2666, Fengtian Road, Tai'an High-Tech Industrial Development Zone, Tai'an, Shandong, 271001, People's Republic of China ~72: Ding Fujuan;Liu Bin;Wu Xue;Yuan Yanfei;Zhang Junpeng;Zhou Haiyan~ 33:CN ~31:202311103593.X ~32:30/08/2023

2024/01650 ~ Complete ~54:PYRIDINYL DERIVATIVES AS SODIUM CHANNEL ACTIVATORS ~71:XENON PHARMACEUTICALS INC., 200-3650 Gilmore Way, Burnaby, British Columbia, V5G 4W8, Canada ~72: HELEN CLEMENT;JUNG YUN KIM;KRISTEN BURFORD;MICHAEL CLARK;PAUL CHARIFSON;VERNER LOFSTRAND~ 33:US ~31:63/248,341 ~32:24/09/2021

2024/01653 ~ Complete ~54:REDUCING AND NON-BLAST FURNACE SMELTING METHOD OF ALKALINE VANADIUM-TITANIUM PELLETS AND HOT-PRESSED CARBON-CONTAINING VANADIUM-TITANIUM PELLETS ~71:PANGANG GROUP PANZHILHUA IRON & STEEL RESEARCH INSTITUTE CO., LTD., No.90, Taoyuan Street, East District, Panzhihua, People's Republic of China ~72: CHEN, Mao;TANG, Wenbo;WU, Ning;ZHU, Fengxiang~ 33:CN ~31:202211429564.8 ~32:15/11/2022

2024/01631 ~ Complete ~54:A PRINTING PLATFORM ADJUSTING STRUCTURE OF A 3D PRINTER ~71:Central South University, No. 932, LuShan South Road, Yuelu District, Changsha City, Hunan Province, 410083, People's Republic of China ~72: Hao Pan;Xinna Bai~

2024/01634 ~ Complete ~54:DEVICE FOR SCANNING LOGISTICS PACKAGE BASED ON BIG DATA ~71:East China Jiaotong University, No. 808, Shuanggang East Street, Changbei, Nanchang City, Jiangxi Province, 330013, People's Republic of China;Xinyu University, No. 2666, Yangguang Avenue, Yushui District, Xinyu City, Jiangxi Province, 338025, People's Republic of China ~72: Feng Daoming;Huang Yulong;Liu Kai;Pan Cheng;Wu Guangsheng~

2024/01645 ~ Complete ~54:USE OF AN ACID WHEY TO STIMULATE THE GERMINATION OF A PLANT POLLEN GRAIN ~71:AGRO INNOVATION INTERNATIONAL, 18 Avenue, Franklin Roosevelt, 35400, Saint-Malo, France;UNIVERSITE DE ROUEN-NORMANDIE, 1 rue Thomas Becket 76821, Mont-Saint-Aignan Cedex, France ~72: ARNAUD LEHNER;EMMANUEL ERIC NGUEMA-ONA;FLORENCE CRUZ;FRANK JAMOIS;JEAN-CLAUDE MOLLET;SYLVAIN PLUCHON~ 33:FR ~31:FR2108546 ~32:06/08/2021

2024/01649 ~ Complete ~54:PYRIDINYLACETAMIDE DERIVATIVES AS SODIUM CHANNEL ACTIVATORS ~71:XENON PHARMACEUTICALS INC., 200-3650 Gilmore Way, Burnaby, British Columbia, V5G 4W8, Canada ~72: HELEN CLEMENT;JAN FELIX SCHOLTES;JULIETTE SABBATANI;JUNG YUN KIM;KRISTEN BURFORD;MICHAEL CLARK;PAUL CHARIFSON;RAMKUMAR RAJAMANI;RAVI MUNUGANTI;SHAOYI SUN;SHAWN JOHNSTONE;STEVE WESOLOWSKI;VERNER LOFSTRAND;WEI ZHANG~ 33:US ~31:63/248,334 ~32:24/09/2021

2024/01638 ~ Complete ~54:MULTILAYER NONWOVEN STRUCTURE ~71:BOREALIS AG, Trabrennstrasse 6-8, Austria ~72: Anita LUYTEN;Gustaf TOBIESON;Henk VAN PARIDON;Jingbo WANG;Klaus BERNREITNER;Markus GAHLEITNER;Onur UZUN;Pascal WUST;Wilhelmus Henricus Adolf SARS~ 33:EP ~31:21189680.8 ~32:04/08/2021

2024/01627 ~ Provisional ~54:UNIVERSAL MOUNTING BRACKET ~71:VAN ROOYEN, Gert Thomas, No. 12 Mimosapark, Buffelfontein Road, South Africa ~72: VAN ROOYEN, Gert Thomas~

2024/01636 ~ Complete ~54:COMPUTER NETWORK SECURITY EARLY WARNING DEVICE ~71:HEBEI CHEMICAL AND PHARMACEUTICAL COLLEGE, No. 88 Fangxing Road, Yuhua District, Shijiazhuang, Hebei, 050026, People's Republic of China ~72: CHANG, Lei~

2024/01643 ~ Complete ~54:PROVIDING CONTROL INFORMATION ~71:Sandvik Mining and Construction Oy, Pihtisulunkatu 9, TAMPERE 33330, FINLAND, Finland ~72: HANSKI, Sami;KORVA, Timo;PESOLA, Mikko;VIINIKAINEN, Mikko;VÄLIVAARA, Johannes~ 33:EP ~31:21195601.6 ~32:08/09/2021

2024/01651 ~ Complete ~54:ANCHORING AND PROTECTING VEHICLE ~71:CHINA COAL TECHNOLOGY AND ENGINEERING GROUP TAIYUAN INSTITUTE, No.1 Kehui Road, Technology Innovation City, Demonstration Area, Shanxi, Taiyuan, People's Republic of China;SHANXI TIANDI COAL MINING MACHINERY CO., LTD., No.1 Dianzi Street, Demonstration Area, Shanxi, Taiyuan, People's Republic of China ~72: AN, Siyuan;JIA, Yunhong;JIN, Jiang;KANG, Peng;LAN, Huimin;LV, Jishuang;MA, Zhaoning;MI, Haoding;MI, Xiongwei;REN, Xiaowen;SONG, Mingjiang;TIAN, Yuan;YAN, Jinbao;ZHANG, Dongbao;ZHANG, Licai;ZHANG, Yunbo;ZHOU, Xu~ 33:CN ~31:202111416873.7 ~32:25/11/2021

2024/01692 ~ Provisional ~54:SA FOR PALESTINE ~71:Sizwe Goodwill Mahlangu, 2235 Mbuyisa Street, South Africa ~72: Sizwe Goodwill Mahlangu~

2024/01647 ~ Complete ~54:COMBINATION DRUG ~71:OTSUKA PHARMACEUTICAL CO., LTD., 2-9, Kanda Tsukasa-machi, Chiyoda-ku, Tokyo, 1018535, Japan ~72: HIROKI AKAMINE;HIRONORI MATSUYAMA;KEISUKE TAZURU;MASAYUKI SONE;TOSHIKI SUDO;YOSUKE KOGUE~ 33:JP ~31:2021-135138 ~32:20/08/2021

2024/01642 ~ Complete ~54:WOUND CORE ~71:NIPPON STEEL CORPORATION, 6-1, Marunouchi 2-chome, Chiyoda-ku, TOKYO 100-8071, JAPAN, Japan ~72: MIZUMURA, Takahito;MOGI, Hisashi;TAKAHASHI, Masaru~ 33:JP ~31:2021-163557 ~32:04/10/2021

2024/01652 ~ Complete ~54:DOUBLE-BOX SWITCHING TYPE ROOF BOLTER ~71:CHINA COAL TECHNOLOGY AND ENGINEERING GROUP TAIYUAN INSTITUTE, No.1 Kehui Road, Technology Innovation City, Demonstration Area, Shanxi, Taiyuan, People's Republic of China;SHANXI TIANDI COAL MINING MACHINERY CO., LTD., No.1 Dianzi Street, Demonstration Area, Shanxi, Taiyuan, People's Republic of China ~72: AN, Siyuan;BAI, Xuefeng;BI, Yueqi;DU, Yuxiang;KANG, Peng;LAN, Huimin;PANG, Yu;YAN, Jinbao;YAN, Zhen;YANG, Xiaofeng;ZHANG, Dongbao;ZHANG, Fuxiang;ZHANG, Licai;ZHANG, Yunbo;ZHU, Zhentian~ 33:CN ~31:202110997093.X ~32:27/08/2021

- APPLIED ON 2024/02/27 -

2024/01675 ~ Complete ~54:6-AZA-QUINOLINE DERIVATIVES AND RELATED USES ~71:BLACK DIAMOND THERAPEUTICS, INC., One Main Street, 10th Floor, United States of America ~72: JEWETT, Ivan;NG, Pui Yee;PADILLA, Fernando~ 33:US ~31:63/242,845 ~32:10/09/2021;33:US ~31:63/351,158 ~32:10/06/2022

2024/01680 ~ Complete ~54:ANTIGEN-BINDING MOLECULES AND USES THEREOF ~71:Scout Bio, Inc., 100 N. 18th Street, Suite 300, PHILADELPHIA 19103, PA, USA, United States of America ~72: BUSFIELD, Samantha J.;WILSON, Matthew J.~ 33:US ~31:63/239,054 ~32:31/08/2021

2024/01690 ~ Complete ~54:AIR COOLED SIFTING DEVICE ~71:ORENDA AUTOMATION TECHNOLOGIES INC., 165 Steelcase Road, East Markham, Ontario, L3R 1G1, Canada ~72: HRISTOS LEFAS;MALCOLM LAWRENCE BAIRD~ 33:US ~31:17/490,169 ~32:30/09/2021

2024/01664 ~ Complete ~54:VIBRATION RESISTANCE TESTING APPARATUS AND METHOD FOR INLET GUIDE VANE ELECTRO HYDRAULIC SERVO SYSTEM ~71:Hangzhou Dianzi University Information Engineering College, No.1 Hangdian Road, Qingshanhu Science and Technology City, Lin'an District, Hangzhou City, Zhejiang Province, 311305, People's Republic of China ~72: FENG, Junwei;LIU, Xiangqi;MENG, Zhen;SHAO, Yanhong;SUI, Yongfeng;TU, Tianxing;XU, Yunbin;ZHENG, Jiansheng;ZHOU, Lvmin;ZHU, Zefei~

2024/01676 ~ Complete ~54:SYSTEMS AND METHODS FOR GENERATION OF HYDROGEN BY IN-SITU (SUBSURFACE) SERPENTINIZATION AND CARBONIZATION OF MAFIC OR ULTRAMAFIC ROCK ~71:OHIO STATE INNOVATION FOUNDATION, 1524 North High Street, Columbus, Ohio, 43201, United States of America ~72: DARRAH, Thomas;RAO, Vikram;WHYTE, Colin~ 33:US ~31:63/203,815 ~32:30/07/2021;33:US ~31:17/815,903 ~32:28/07/2022

2024/01689 ~ Complete ~54:MOLECULAR DEGRADERS OF EXTRACELLULAR PROTEINS ~71:YALE UNIVERSITY, Two Whitney Avenue, New Haven, Connecticut, 06510, United States of America ~72: DAVID CAIANIELLO;DAVID SPIEGEL;EDWARD DERAMON~ 33:US ~31:63/237,627 ~32:27/08/2021;33:US ~31:63/319,957 ~32:15/03/2022

2024/01662 ~ Complete ~54:DEEP LEARNING BASED METHOD AND DEVICE FOR INTELLIGENTLY MONITORING SUB-HEALTH STATE OF INDUSTRIAL APPARATUS ~71:Zhuhai City Polytechnic, 680 Decheng Road, Jinwan District, Zhuhai City, Guangdong Province, 519090, People's Republic of China ~72: CHEN, Cong;LIU, Xiangjun;LUN, Zhiguo;YANG, Lin;ZHU, Leping;ZHU, Shaoping~

2024/01663 ~ Complete ~54:METHOD FOR TESTING ANTIFUNGAL ACTIVITY OF ANTIBACTERIAL CERAMICS ~71:Comprehensive Technical Service Center of Tangshan Customs, No. 35, Beixin West Road, Tangshan City, Hebei Province, 063000, People's Republic of China;Taizhou Institute of Product Quality and

Safety inspection, No. 788, East Section of Kaifa Avenue, Taizhou City, Zhejiang Province, 318000, People's Republic of China ~72: CUI, Zongyan;HONG, Wei;HUANG, Huichao;LI, Wenjie;LIU, Xiaohui;SUN, Jizan;WENG, Xiaowei;ZHANG, Yihan;ZHANG, Yiqin~

2024/01668 ~ Complete ~54:DEVICE FOR RADIATING HEAT OF 3D PRINTER SPRAY HEAD ~71:Jiangsu College Of Safety Technology, Dongdianzi, Dongjiao, Yunlong District, Xuzhou City, Jiangsu Province, 221001, People's Republic of China ~72: Chen Hairong;Zhang Jiguang;Zhang Xing~ 33:CN ~31:202311029330.9 ~32:16/08/2023

2024/01672 ~ Complete ~54:ANTI-4-1BB NANOBODIES ~71:LANOVA MEDICINES LIMITED, 2889 Jinke Road, Building 10, Room 318, Chamtime Plaza, People's Republic of China ~72: HUANG, WENTAO;LI, RUNSHENG~ 33:CN ~31:PCT/CN2021/115621 ~32:31/08/2021

2024/01673 ~ Complete ~54:DUPLEXBODIES ~71:AFFIMED GMBH, KOROS building, Gottlieb-Daimler-Strasse 2, Germany ~72: KOCH, Joachim;REUSCH, Uwe~ 33:EP ~31:21188905.0 ~32:30/07/2021

2024/01678 ~ Complete ~54:COMBUSTION BOILER CONTROL METHOD, COMBUSTION BOILER AND BOILER COMPUTATION SYSTEM ~71:Sumitomo SHI FW Energia Oy, Metsänneidonkuja 10, ESPOO 02130, FINLAND, Finland ~72: KETTUNEN, Ari;MIETTINEN, Jouni~

2024/01688 ~ Complete ~54:POWER SYSTEM AND TRAVELING POWER STATION ~71:EPIROC (NANJING) CONSTRUCTION & MINING EQUIPMENT LTD., No.2 Hengtai Road, Economic & Technological Development Zone, Nanjing, Jiangsu, 210038, People's Republic of China ~72: BUYAN TANG;CHENGYUN ZHU;GUANGBIN TAN;HONGHAO CAI;JIAWEI HAN;JIE ZHAO;MIN YANG;SHANFEI FENG;SHAOZHONG WANG;XIANGWEI ZHAO~ 33:CN ~31:202110867574.9 ~32:28/07/2021

2024/01691 ~ Provisional ~54:PARK ALIGNMENT CAMERA AND SCREEN ~71:ROBERT MOORE BRUWER, 35A GERALD DREYER STREET, Namibia ~72: ROBERT MOORE BRUWER~

2024/01654 ~ Provisional ~54:NOVEL SURFACTANT COMPOUNDS ~71:NORTH-WEST UNIVERSITY, 1 Hoffman Street, Joon van Rooy Building, South Africa ~72: MARX, Frans Thomas Ignatius;VENTER, David;VOSLOO, Hermanus, Cornelius, Moolman;YOUNG, Desmond Austin~

2024/01657 ~ Provisional ~54:THE PERFUME SCENT SAMPLE ON THE CONTAINER ~71:Kwebu Jonas Mofokeng, A1623 Bereng Street,, South Africa ~72: Kwebu Jonas Mofokeng~

2024/01659 ~ Complete ~54:METHOD FOR SIMPLE AND RAPID SEPARATION AND PURIFICATION OF SIGA FROM BOVINE COLOSTRUM ~71:Jiangsu Tianmeijian Nature Bioengineering Co., Ltd., No. 31, Hengjing Road, Qixia District, Nanjing City, Jiangsu Province, 210046, People's Republic of China;Nanjing Normal University, No.1, Wenyuan Road, Qixia District, Nanjing City, Jiangsu Province, 210023, People's Republic of China ~72: CHEN, Chao;CHEN, Fei;CHENG, Guangyu;GE, Wenjin;GUO, Benzhaio;JIANG, Hechun;LI, Ling;LU, Qingguo;REN, Yong;SUN, Zhongwei;TAO, Mingxuan;WANG, Rongchang;WANG, Xiaojun;YANG, Zhou;ZHANG, Zi'ang~ 33:CN ~31:202310905991.7 ~32:24/07/2023

2024/01671 ~ Complete ~54:ROW UNIT COMPRISING A COVERING DEVICE AND METHODS OF PLANTING SEEDS ~71:PRECISION PLANTING LLC, 23207 Townline Road, Tremont, United States of America ~72: HODEL, Jeremy~ 33:US ~31:63/262,441 ~32:12/10/2021

2024/01789 ~ Provisional ~54:IN-VEHICLE & OCCUPANT SURVEILLANCE & SECURITY SYSTEM ~71:Funda Mpanza, 457 marni Street, Waterkloof Glen, Waterkloof Glen, South Africa ~72: Funda Mpanza~



2024/01656 ~ Provisional ~54:BARRIER ~71:COCHRANE STEEL PRODUCTS (PTY) LTD, 125 Fitter Road, Spartan, South Africa ~72: TBA~

2024/01658 ~ Provisional ~54:A TRAIN AND METHOD OF ADAPTING/OPERATING A TRAIN ~71:ROBERT PHILLIP BRIGDEN, 20 Oranje Avenue, Gallo Manor, Sandton, 2052, South Africa ~72: ROBERT PHILLIP BRIGDEN~

2024/01669 ~ Complete ~54:SYSTEMS FOR AUTOMATED BLAST DESIGN PLANNING AND METHODS RELATED THERETO ~71:DYNO NOBEL INC., 6440 S. Millrock Drive, Suite 150, Salt Lake City, Utah, 84121, United States of America ~72: JEFFREY AVERETT;JOSEPH NAWROCKI JR.;RUFUS E FLINCHUM;SCOTT GILTNER~ 33:US ~31:62/801,312 ~32:05/02/2019

2024/01681 ~ Complete ~54:SHARDED MERKLE TREE ~71:nChain Licensing AG, Grafenauweg 6, ZUG 6300, SWITZERLAND, Switzerland ~72: GRAHAM, Alexander;PAUNOIU, Alexandru;WRIGHT, Craig Steven~ 33:GB ~31:2115522.1 ~32:28/10/2021

2024/01655 ~ Provisional ~54:NOVEL USES OF NOVEL SURFACTANT COMPOUNDS ~71:NORTH-WEST UNIVERSITY, 1 Hoffman Street, Joon van Rooy Building, South Africa ~72: MARX, Frans Thomas Ignatius;OTTO, Daniel Petrus;SMIT, Frans Johannes;VOSLOO, Hermanus Cornelius Moolman;WIESE, Ettiene Hugo~

2024/01674 ~ Complete ~54:SCALLOP SELENIUM-ENRICHED COMPOSITE PROTEIN POWDER AND PREPARATION PROCESS THEREOF ~71:Guangdong Ocean University, No.1, Haida Road, Mazhang District, Zhanjiang, Guangdong, 524088, People's Republic of China ~72: CAO Wenhong;CHEN Zhongqin;GAO Jialong;QIN Xiaoming;WANG Renjia;ZHENG Huina~ 33:CN ~31:2022108974162 ~32:28/07/2022

2024/01679 ~ Complete ~54:SYSTEMS AND METHODS FOR DETERMINING GUI INTERACTION INFORMATION FOR AN END USER DEVICE ~71:Blue Prism Limited, 2 Cinnamon Park, Crab Lane, Fearnhead, WARRINGTON WA2 0XP, UNITED KINGDOM, United Kingdom ~72: AKTAS, Ümit Rusen;CARR, Benjamin Michael;CHILES, Thomas Alexander;DUBBA, Krishna Sandeep Reddy~ 33:GB ~31:2111831.0 ~32:18/08/2021

2024/01661 ~ Complete ~54:A PREPARATION METHOD FOR THE OUTER BOX OF LOW TEMPERATURE HIGH IMPACT RUBBER MODIFIED POLYOLEFIN AIRDROP BOX ~71:Taiyuan University of Technology, No.79 Yingzexi Street, Wanbailin District, Taiyuan City, Shanxi Province, 030024, People's Republic of China ~72: Jiahao SHEN;Jiayi WANG;Ruimiao LIANG;Wenwen YU;Yi Zhang;Zhiyi ZHANG~ 33:CN ~31:2023116797107 ~32:08/12/2023

2024/01665 ~ Complete ~54:DELIVERY SYSTEM FOR FUNCTIONAL NUCLEASES ~71:President and Fellows of Harvard College, 17 Quincy Street, CAMBRIDGE 02138, MA, USA, United States of America ~72: LIU, David R.;THOMPSON, David B.;ZURIS, John Anthony~ 33:US ~31:61/874,746 ~32:06/09/2013;33:US ~31:14/462,163 ~32:18/08/2014;33:US ~31:14/462,189 ~32:18/08/2014

2024/01667 ~ Complete ~54:FEEDING DEVICE AND FEEDING METHOD FOR SHEEP HOUSE FOR LIVESTOCK BREEDING ~71:Xinjiang Academy of Agricultural and Reclamation Sciences, No. 221 Wuyi Road, Shihezi City, Xinjiang Uygur Autonomous Region, 832000, People's Republic of China ~72: Chen Ping;Lin Zhenghui;Wang Gang;Yang Hua;Yang Yonglin;Yu Qian;Zhang Delin;Zhang Wenzhe~

2024/01682 ~ Complete ~54:ANTI-CD3 ANTIBODIES ~71:Adimab, LLC, 7 Lucent Drive, LEBANON 03766, NH, USA, United States of America ~72: BATTLES, Michael Benjamin;LIU, Catherine Yue~ 33:US ~31:63/245,499 ~32:17/09/2021

2024/01687 ~ Complete ~54:SUBSTITUTED TRICYCLIC COMPOUNDS AS PARP INHIBITORS AND USE THEREOF ~71:IMPACT THERAPEUTICS (SHANGHAI), INC., Room 603, No.3 Building, 111 Xiangke Road, China (Shanghai), Pilot Free Trade Zone, Shanghai, 201210, People's Republic of China ~72: SUI XIONG CAI;XIAOZHU WANG;YE EDWARD TIAN~ 33:CN ~31:202111000443.7 ~32:27/08/2021;33:CN ~31:202111447991.4 ~32:30/11/2021;33:CN ~31:202210274490.9 ~32:18/03/2022

2024/01660 ~ Complete ~54:COMPOSITIONS COMPRISING CURONS AND USES THEREOF ~71:FLAGSHIP PIONEERING INNOVATIONS V, INC., 55 Cambridge Parkway, 8th Floor, Suite 800E, United States of America ~72: DIAZ, Fernando, Martin;KAHVEJIAN, Avak;LEBO, Kevin, James;NAWANDAR, Dhananjay, Maniklal;PLUGIS, Nicholas, McCartney;WEINSTEIN, Erica, Gabrielle~ 33:US ~31:62/518,898 ~32:13/06/2017;33:US ~31:62/597,387 ~32:11/12/2017;33:US ~31:62/676,730 ~32:25/05/2018

2024/01670 ~ Complete ~54:SOLID FORMS OF BCL-2 INHIBITORS, METHOD OF PREPARATION, AND USE THEREOF ~71:BEIGENE SWITZERLAND GMBH, Aeschengraben 27, Switzerland;BEIGENE, LTD., C/o Mourant Governance Services (Cayman) Limited, 94 Solaris Avenue, Cayman Islands ~72: GUO, Yunhang;SHI, Gongyin;XUE, Hai;YU, Desheng~ 33:CN ~31:PCT/CN2021/115718 ~32:31/08/2021

2024/01677 ~ Complete ~54:AQP1 GENE THERAPY TO PREVENT RADIATION INDUCED SALIVARY HYPOFUNCTION ~71:THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES, Office of Technology Transfer, National Institutes of Health, 6701 Rockledge Drive, Suite 700, United States of America ~72: CHIORINI, John A.;HOFFMAN, Matthew P.~ 33:US ~31:63/229,279 ~32:04/08/2021;33:US ~31:63/297,342 ~32:07/01/2022

2024/01684 ~ Complete ~54:NOVEL PARP7 INHIBITOR AND USE THEREOF ~71:SHANGHAI QILU PHARMACEUTICAL RESEARCH AND DEVELOPMENT CENTRE LTD., Building 1, No. 576 Li Bing Road, No. 56 Faraday Road, China (Shanghai), Pilot Free Trade Zone Shanghai, 201203, People's Republic of China ~72: DAQING SUN;GUANXIN HUANG;WEI JU;XIAOXIA YAN~ 33:CN ~31:202110862671.9 ~32:29/07/2021;33:CN ~31:202210208759.3 ~32:03/03/2022;33:CN ~31:202210839712.7 ~32:15/07/2022

2024/01685 ~ Complete ~54:CRYSTALLIZATION PROCESS FOR THE SEPARATION OF METALS ~71:UMICORE, Rue du Marais 31, 1000, Brussels, Belgium ~72: PIETER VERHEES~ 33:EP ~31:21188417.6 ~32:29/07/2021

2024/01666 ~ Complete ~54:AEROSOL SOURCE FOR A VAPOUR PROVISION SYSTEM ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: ANGELL, Terry Lee;SIMPSON, Alex~ 33:GB ~31:1704674.9 ~32:24/03/2017

2024/01683 ~ Complete ~54:DATA OBFUSCATION ~71:Blue Prism Limited, 2 Cinnamon Park, Crab Lane, Fearnhead, WARRINGTON WA2 0XP, UNITED KINGDOM, United Kingdom ~72: DUBBA, Krishna Sandeep Reddy;ZHANG, De~ 33:EP ~31:21189837.4 ~32:05/08/2021

2024/01686 ~ Complete ~54:A LOW PRESSURE WATER REACTOR AND A METHOD FOR CONTROLLING A LOW PRESSURE WATER REACTOR ~71:AZRUDI BIN MUSTAPHA @ PA, Unit 1-1 Suria 7, Cyber Heights Villa, Jalan Cyber Suria, 63000, Cyberjaya, Malaysia;KEITH HENRY ARDRON, Portway Pharos, High Street, Upton St Leonards, Gloucester, Gloucestershire, GL4 8DL, United Kingdom ~72: AZRUDI BIN MUSTAPHA @ PA;KEITH HENRY ARDRON~ 33:EP ~31:21189257.5 ~32:03/08/2021

- APPLIED ON 2024/02/28 -

2024/01697 ~ Complete ~54:ORGANIC SELENIUM FEED ADDITIVE AND PREPARATION METHOD THEREFOR ~71:Ganzhou Animal Husbandry And Fisheries Research Institute, No. 203 Tangan Road, Tandong

Town, Rongjiang New District, Ganzhou City, Jiangxi Province, 341000, People's Republic of China ~72: DING, Wuyi;GUO, Xiaobo;HU, Yan;HUANG, Jifa;LIAN, Hai;LIN, Xiaocui;LIU, Ruiping;SHI, Humin;ZHONG, Ruyi~

2024/01725 ~ Complete ~54:5-HYDROXYTRYPTOPHAN GASTRORETENTIVE DOSAGE FORMS ~71:Evecxia Therapeutics, Inc., 2 Davis Drive, RESEARCH TRIANGLE PARK 27709, NC, USA, United States of America ~72: BERNER, Bret;JACOBSEN, Jacob Pade Ramsøe;LIN, Wu;TAY, Ching Sieu~ 33:US ~31:63/227,915 ~32:30/07/2021

2024/01732 ~ Complete ~54:HUMAN MONOCARBOXYLATE TRANSPORTER 1 ANTIBODIES AND USES THEREOF ~71:Immunometabolism Development Company, LLC, 1 Medical Center Drive, LEBANON 03756, NH, USA, United States of America ~72: DORSEY, Frank Charles;GRANGER, Joseph Benjamin;RUBTSOVA, Kira Vladimirovna;SCHROEDER, Oliver;WANG, Wei~ 33:US ~31:63/261,177 ~32:14/09/2021;33:US ~31:63/272,903 ~32:28/10/2021

2024/01739 ~ Complete ~54:MULTI-SPLIT CENTRAL AIR CONDITIONING SYSTEM FOR SIMULTANEOUS COOLING AND HEATING ~71:JINGKELUN REFRIGERATION EQUIPMENT CO., LTD., No. 352, Second Street, Jinmayuan Gaoliying Town, People's Republic of China ~72: KANG, Jianhui;WANG, Quanjiang;XIE, Weibo;YANG, Jianguo;ZHOU, Chengjun~ 33:CN ~31:202111361573.3 ~32:17/11/2021

2024/01705 ~ Complete ~54:DISPLAY DEVICE FOR CUSTOMS DECLARATION AND INSPECTION PROCESSES IN INTERNATIONAL TRADE ~71:Xinyu University, No. 2666, sunshine Avenue, high tech Zone, Xinyu City, Jiangxi Province, 338004, People's Republic of China ~72: Huang Renjing;Li Xiaoyong;Li Xuezhu;Lin Zhi;Xie Lianping;Zeng Xiaorong~

2024/01714 ~ Complete ~54:METHODS AND COMPOSITIONS COMPRISING ANTI-CD3 ANTIBODIES AND DYRK1A INHIBITORS FOR TREATING DIABETES ~71:PROVENTION BIO, INC., 55 Broad Street, 2nd Floor Red Bank, United States of America ~72: LEON, Francisco~ 33:US ~31:63/243,666 ~32:13/09/2021;33:US ~31:63/318,363 ~32:09/03/2022

2024/01845 ~ Provisional ~54:MUTHI GRINDER MACHINE ~71:Tinyiko Masinge, 2896 Luvuvu Street, Diepkloof, Zone 2, South Africa;Tinyiko Masinge, 2896 Luvuvu Street, Diepkloof, Zone 2, South Africa ~72: Tinyiko Masinge~ 33:ZA ~31:890928 ~32:15/02/2024

2024/01693 ~ Provisional ~54:MASS ELECTRICITY DEMAND MANAGEMENT SYSTEM AND METHOD ~71:BLUE POT HOLDINGS (PTY) LTD, Studio 3, Wechmarshof Farm, South Africa ~72: BENEKE, John Raymond;LABUSCHAGNE, Jean;LOUBSER, Jacques Bjorn;MARALACK, Lourens Phillip Edward~

2024/01701 ~ Complete ~54:ANTI-VIBRATION JOINT STRUCTURE FOR SELF-RESETTING PREFABRICATED BEAM COLUMN ~71:Bengbu University, No. 1866 Caoshan Road, Bengbu City, Anhui Province, 233030, People's Republic of China ~72: CHEN, Lingling~

2024/01718 ~ Complete ~54:MICRO-VIBRATION TERMINAL, PLUG-IN STRUCTURE, AND MOTOR VEHICLE ~71:CHANGCHUN JETTY AUTOMOTIVE TECHNOLOGY CO., LTD., No. 957, Shunda Road, High-tech Development Zone, Chaoyang District Changchun, Jilin 130000, People's Republic of China ~72: CHAO WANG~ 33:CN ~31:202110945331.2 ~32:17/08/2021

2024/01722 ~ Complete ~54:RAM SYSTEM AND KNOCK-OUT RAM ASSEMBLY FOR PROCESSING CONTAINERS ~71:BELVAC PRODUCTION MACHINERY, INC., 237 Graves Mill Road, Lynchburg, Virginia, 24502-4203, United States of America ~72: JEFFREY LEE SHORTRIDGE;LARRY D MCKINNEY~ 33:US ~31:63/229,887 ~32:05/08/2021



2024/01728 ~ Complete ~54:REDUCED GRAPHENE OXIDE DECORATED WITH ZINC AND COPPER OXIDES, METHOD OF PREPARATION THEREOF, AND USE THEREOF ~71:Mendelova univerzita v Brne, Zemedelska 1665/1, BRNO 61300, CZECH REPUBLIC, Czech Republic ~72: BYTESNIKOVA, Zuzana;CECHOVA, Jana;EICHMEIER, Ales;PECENKA, Jakub;RICHTERA, Lukas;TEKIELSKA, Dorota;VOJTECH, Adam~ 33:CZ ~31:PV 2021-392 ~32:24/08/2021

2024/01735 ~ Complete ~54:GPR52 MODULATOR COMPOUNDS ~71:Heptares Therapeutics Limited, Granta Park, Great Abington, Cambridge, CAMBRIDGESHIRE CB21 6DG, UNITED KINGDOM, United Kingdom ~72: O'BRIEN, Michael Alistair;SWAIN, Nigel Alan;WATSON, Stephen Paul~ 33:GB ~31:2113186.7 ~32:15/09/2021

2024/01742 ~ Complete ~54:INTERMITTENT DOSING OF GLUCOCORTICOID RECEPTOR MODULATORS FOR THE TREATMENT OF OVARIAN AND OTHER CANCERS ~71:CORCEPT THERAPEUTICS INCORPORATED, 149 Commonwealth Drive, United States of America ~72: BELANOFF, Joseph K.;SHEPHERD, Stacie~ 33:US ~31:63/244,825 ~32:16/09/2021;33:US ~31:PCT/US2021/050617 ~32:16/09/2021;33:US ~31:63/324,873 ~32:29/03/2022;33:US ~31:63/345,682 ~32:25/05/2022

2024/01710 ~ Complete ~54:PIPELINE TRANSPORTATION SYSTEM AND TRANSPORTATION METHOD WITH POWER OPTIMIZATION ~71:Chenxi Zhang, 19-6-601, No.868 Laomancheng Street, Shayibak District, Urumqi, Xinjiang Uygur Autonomous Region, People's Republic of China;Chenyu Zhang, 19-6-601, No.868 Laomancheng Street, Shayibak District, Urumqi, Xinjiang Uygur Autonomous Region, People's Republic of China;Luguo Zhang, 19-6-601, No.868 Laomancheng Street, Shayibak District, Urumqi, Xinjiang Uygur Autonomous Region, People's Republic of China ~72: Chenxi Zhang;Chenyu Zhang;Luguo Zhang~

2024/01737 ~ Complete ~54:SPRAYABLE FORMULATION COMPRISING VIABLE AND/OR STABLE BACTERIA ~71:UNIVERSITEIT ANTWERPEN, Prinsstraat 13, Belgium;YUN NV, Galileilaan 15, Belgium ~72: CLAES, Ingmar;DE BOECK, Ilke;GAMGAMI, Imane;HENKENS, Tim;LEBEER, Sarah;SIMONS, Alix;SPACOVA, Irina~ 33:BE ~31:2021/5643 ~32:12/08/2021

2024/01712 ~ Complete ~54:PROBIOTIC EGG WASH ~71:AGRITX, LLC, 617 Sullivan Road, Statesville, United States of America ~72: SLOAN, Gina~ 33:US ~31:63/236,399 ~32:24/08/2021;33:US ~31:17/818,182 ~32:08/08/2022

2024/01702 ~ Complete ~54:INTELLIGENT DETECTION METHOD AND DEVICE FOR NETWORK INFORMATION SECURITY ~71:Jiaxing Vocational & Technical College, No. 547, Tongxiang Avenue, Nanhu District, Jiaxing City, Zhejiang Province, 314036, People's Republic of China ~72: Chunfang Gao;Wenhong Xiao~ 33:CN ~31:202310809816.8 ~32:04/07/2023

2024/01695 ~ Provisional ~54:ORGANIZATIONAL AND GOVERNMENT ONLINE-RECRUITMENT SYSTEM ~71:BGKS PROJECTS AND BUSINESS SOULUTIONS, 608 C, South Africa;BONOLO SAMUEL SETLHAPO, 608 C, South Africa ~72: BONOLO SAMUEL SETLHAPO~

2024/01699 ~ Complete ~54:MULTIFUNCTIONAL DIFFUSELY-REFLECTING INTERIOR WALL COATING CAPABLE OF PREVENTING MYOPIA ~71:Hunan Guocai New Material Co., Ltd., Jiangbian Road, Dongkou Economic Development Zone, Dongkou County, Shaoyang City, Hunan Province, 422399, People's Republic of China ~72: CHEN, Wei;HE, Lindao;LIU, Heng~

2024/01707 ~ Complete ~54:CRYSTALLINE POLYMORPHS OF THE FREE BASE OF 2-HYDROXY-6-((2-(1-ISOPROPYL-1H-PYRAZOL-5-YL)PYRIDIN-3-YL)METHOXY)BENZALDEHYDE ~71:Global Blood Therapeutics, Inc., 400 East Jamie Court, Suite 101, SOUTH SAN FRANCISCO 94080, CA, USA, United States of America ~72: HOUSTON, Travis;LI, Zhe;PARENT, Stephan D.~ 33:US ~31:61/937,393 ~32:07/02/2014;33:US ~31:61/937,404 ~32:07/02/2014

2024/01720 ~ Complete ~54:INDOLE COMPOUNDS AND METHODS OF USE ~71:GENZYME CORPORATION, 450 Water Street, Cambridge, Massachusetts, 02141, United States of America ~72: ALEXANDRE GROSS;ANATOLY RUVINSKY;ANDREW GOOD;BRADFORD HIRTH;CLAUDE BARBERIS;DAVID BORCHERDING;GREGORY HURLBUT;JINYU LIU;JUNKAI LIAO;MARK MUNSON;MARKUS METZ;MATTHIEU BARRAGUE;ROY VAZ;SUKANTHINI THURAIRATNAM;TIMOTHY ALAN GILLESPIY;YI LI;ZHONGLI GAO~ 33:US ~31:63/240,765 ~32:03/09/2021

2024/01729 ~ Complete ~54:A POWERTRAIN SUPPORT ARRANGEMENT, AND A MOBILE UNDERGROUND MINING MACHINE ~71:Sandvik Mining and Construction Oy, Pihtisulunkatu 9, TAMPERE 33330, FINLAND, Finland ~72: AHTIAINEN, Jouni;ILJIN, Tuomas;KITULA, Mikko;LAIHONEN, Esko~ 33:EP ~31:21209967.5 ~32:23/11/2021

2024/01696 ~ Provisional ~54:PROCESS FOR THE CARBOTHERMIC SMELTING OF A METALLIFEROUS FEEDSTOCK MATERIAL USING A HOT OXIDISING GAS ~71:AFRICAN RAINBOW MINERALS LIMITED, 24 Impala Road, Chislehurst, South Africa ~72: BOUWER, Petrus, Hendrik, Ferreira~

2024/01706 ~ Complete ~54:COMPOUNDS FOR TREATING CERTAIN LEUKEMIAS ~71:TERNS, INC., 1065 E. Hillsdale Blvd, Suite 100, Foster City, California, 94404, United States of America ~72: F. ANTHONY ROMERO;RANDALL HALCOMB;THORSTEN A KIRSCHBERG;YINGZI XU~ 33:US ~31:62/733,029 ~32:18/09/2018;33:US ~31:62/816,637 ~32:11/03/2019;33:US ~31:62/889,929 ~32:21/08/2019

2024/01708 ~ Complete ~54:MODULATORS OF MAS-RELATED G-PROTEIN RECEPTOR X4 AND RELATED PRODUCTS AND METHODS ~71:Escient Pharmaceuticals, Inc., 10578 Science Center Drive, Suite 250, SAN DIEGO 92121, CA, USA, United States of America ~72: BOEHM, Marcus;HUANG, Liming;MARTINBOROUGH, Esther;SAINZ, Marcos;SEFRIDGE, Brandon;YEAGER, Adam~ 33:US ~31:62/825,741 ~32:28/03/2019;33:US ~31:62/849,095 ~32:16/05/2019;33:US ~31:62/864,306 ~32:20/06/2019;33:US ~31:62/938,277 ~32:20/11/2019;33:US ~31:62/955,967 ~32:31/12/2019;33:US ~31:62/959,799 ~32:10/01/2020

2024/01715 ~ Complete ~54:RADIOPHARMACEUTICALS BASED ON ((R)-1-((6-HYDRAZINYLNICOTINOYL)-DALANYL) PYRROLIDIN-2-YL)BORONIC ACID (HYNIC-IFAP) FOR DETECTING THE OVEREXPRESSION OF FIBROBLAST ACTIVATION PROTEIN ~71:INSTITUTO NACIONAL DE INVESTIGACIONES NUCLEARES, CARRETERA MÉXICO TOLUCA S/N, Mexico ~72: Blanca Elí OCAMPO-GARCÍA;Clara Leticia SANTOS-CUEVAS;Erika Patricia AZORIN-VEGA;Guillermina FERRO-FLORES;Myrna Alejandra LUNA-GUTIÉRREZ;Nallely Patricia JIMÉNEZ-MANCILLA~ 33:MX ~31:MX/a/2021/005089 ~32:30/04/2021

2024/01717 ~ Complete ~54:PLUG TERMINAL, PLUG STRUCTURE AND MOTOR VEHICLE ~71:CHANGCHUN JETTY AUTOMOTIVE TECHNOLOGY CO., LTD., No. 957, Shunda Road, High-tech Development Zone, Chaoyang District Changchun, Jilin 130000, People's Republic of China ~72: CHAO WANG~ 33:CN ~31:202110944154.6 ~32:17/08/2021

2024/01711 ~ Complete ~54:APPARATUS AND METHOD FOR SIMULTANEOUSLY TREATING DIFFERENT FLUCTUATING GAS FLOWS ~71:EVONIK OPERATIONS GMBH, RELINGHAUSER STRASSE 1-11, 45128 ESSEN, GERMANY, Germany ~72: PRISKE, Markus~ 33:EP ~31:21189420.9 ~32:03/08/2021

2024/01721 ~ Complete ~54:SEMI-AUTOMATIC OR AUTOMATIC CONTROL OF DRILLING TOOL CHANGING SYSTEM ~71:EPIROC DRILLING SOLUTIONS, LLC, 2100 North First Street, Garland, Texas, 75040, United States of America ~72: GAVIN MAESTAS;LUKE BENDER;MATTHEW FOSLER;SAMYUKTHA PERICHARLA;TAYLOR WILKIN;TYLER BERENS~ 33:US ~31:63/235,855 ~32:23/08/2021

2024/01727 ~ Complete ~54:CRYSTALLINE FORMS OF QUINAZOLINE DERIVATIVES, PREPARATION, COMPOSITION AND USE THEREOF ~71:F. Hoffmann-La Roche AG, Grenzacherstrasse 124, BASEL 4070,

SWITZERLAND, Switzerland ~72: CHENG, Ziqiang;WANG, Zheng;ZHOU, Ding~ 33:IB ~31:2021/125016  
~32:20/10/2021

2024/01734 ~ Complete ~54:DRY POWDER MEDICAMENT INHALER ~71:Norton (Waterford) Limited, Unit 301  
IDA Industrial Park, Cork Road, WATERFORD X91 WK68, IRELAND, Ireland ~72: BUCK, Daniel;CROWLEY,  
Peter John;GOTTESMAN, Josh;HAZENBERG, Jan Geert~ 33:GB ~31:2111658.7 ~32:13/08/2021

2024/01741 ~ Complete ~54:HARVESTER TANK ASSEMBLY AND FILTRATION ARRANGEMENTS THERFOR  
~71:EDC TANKS, The Victoria Maine, 11th Floor, Suite 1101, 71 Margaret Mncadi Avenue, Victoria Embankment,  
Durban 4001, SOUTH AFRICA, South Africa ~72: SINGH, Ajit~ 33:ZA ~31:2021/05331 ~32:28/07/2021

2024/01713 ~ Complete ~54:PROBIOTIC COMPOSITION TO REDUCE PATHOGENESIS IN POULTRY AND  
METHODS FOR USE THEREOF ~71:AGRITX, LLC, 617 Sullivan Road, Statesville, United States of America  
~72: SLOAN, Gina~ 33:US ~31:63/236,399 ~32:24/08/2021;33:US ~31:17/818,182 ~32:08/08/2022;33:US  
~31:17/818,591 ~32:09/08/2022

2024/01698 ~ Complete ~54:INTELLIGENT CLEANING ROBOT FISH FOR OFFSHORE CAGE ~71:SHANGHAI  
OCEAN UNIVERSITY, Huchenghuan Road 999, Pudong New District, Shanghai, 201306, People's Republic of  
China ~72: CHU Wenhua;WANG Yibo;YAN Jifeng;ZHAO Zijing~ 33:CN ~31:2023235447000 ~32:25/12/2023

2024/01704 ~ Complete ~54:AN ARTIFICIAL INTELLIGENCE BASED EXPLAINABLE CROP  
RECOMMENDATION SYSTEM ~71:Aruna Varanasi, Professor & HOD, CSE, Sreenidhi Institute Of Science &  
Technology, Yamnampet, Ghatkesar, Hyderabad, Telangana, 501301, India;Saroj Kumar Biswas, Associate  
Professor, CSE, National Institute of Technology, Silchar, Cachar, Assam, 788010, India;Yaganteeswarudu  
Akkem, Ph.D. Scholar, CSE, National Institute of Technology, Silchar, Cachar, Assam, 788010, India ~72: Aruna  
Varanasi;Saroj Kumar Biswas;Yaganteeswarudu Akkem~

2024/01709 ~ Complete ~54:GPU RESOURCE ALLOCATION METHOD AND SYSTEM ~71:WEIFANG  
UNIVERSITY, No. 5147, Dongfeng East Street, High-tech Development Zone, Weifang, People's Republic of  
China ~72: ZHANG, Huihui~

2024/01694 ~ Provisional ~54:SCENT SAMPLE ON THE DEODORANT CONTAINER ~71:Kwebu Jonas  
Mofokeng, A1623 Bereng Street, South Africa ~72: Kwebu Jonas Mofokeng~

2024/01700 ~ Complete ~54:MAGNETIC FIELD GENERATOR BASED ON MAGNETIC FLUID ATOMIZATION  
LUBRICATION ~71:Ningbo Polytechnic, NO.1069 Xindalu, Beilun District, Ningbo City, Zhejiang Province,  
315800, People's Republic of China ~72: Tao Lv~

2024/01703 ~ Complete ~54:AUTOMATIC PICKING DEVICE AND PICKING METHOD SUITABLE FOR  
LENTINULA EDODES ~71:Xinyu University, No. 2666, sunshine Avenue, high tech Zone, Xinyu City, Jiangxi  
Province, 338004, People's Republic of China ~72: Huang Xiaohua;Li Xiaojun;Li Xuezhu;Xie Lianping;Zeng  
Xiaorong;Zhan Xingxin;Zhang Haitao~

2024/01716 ~ Complete ~54:PHARMACEUTICAL COMPOSITION, PREPARATION METHOD THEREFOR AND  
APPLICATION THEREOF ~71:GUANGZHOU OCUSUN OPHTHALMIC BIOTECHNOLOGY CO., LTD., Room  
402, No. 223 West Huanshi Road, Nansha District, Guangzhou, Guangdong, 511400, People's Republic of  
China;OCUSUN OPHTHALMIC PHARMACEUTICAL (GUANGZHOU) CO., LTD., Floor 1-3, Block A, Building  
203, No. 2 Tongfa Road, Wanqingsha Town, Nansha District, Guangzhou, Guangdong, 511400, People's  
Republic of China ~72: CAO, Chen;SU, Yingxue;WANG, Yandong;WU, Meirong;XUE, Yaping;YU,  
Chuilang;ZHOU, Sheng'an~ 33:CN ~31:202110951364.8 ~32:18/08/2021

2024/01719 ~ Complete ~54:COMPOSITE WEAR COMPONENT ~71:MAGOTTEAUX INTERNATIONAL S.A., Rue Adolphe Dumont, 4051, Vaux-sous-Chèvremont, Belgium ~72: STÉPHANE DESILES~ 33:EP ~31:21198590.8 ~32:23/09/2021

2024/01730 ~ Complete ~54:ANTI-PD-1 ANTIBODY PHARMACEUTICAL COMPOSITION AND USE THEREOF ~71:Shanghai Junshi Biosciences Co., Ltd., Floor 13, Building 2, Nos. 36 and 58, Haiqu Road, Pilot Free Trade Zone, SHANGHAI 201210, CHINA (P.R.C.), People's Republic of China ~72: DU, Xiaojie;FENG, Hui;LIU, Hongchuan;LIU, Hui;LIU, Peixiang;MENG, Qin~ 33:CN ~31:202110863978.0 ~32:29/07/2021

2024/01726 ~ Complete ~54:TUBERCULOSIS VACCINES ~71:Vir Biotechnology, Inc., 1800 Owens Street, Suite 900, SAN FRANCISCO 94158, CA, USA, United States of America ~72: ARVIN, Ann M.;DI IULIO, Julia;DOUGLAS, Janet L.;MARSHALL, Emily;SORIAGA, Leah B.;VIRGIN, Herbert W.~ 33:US ~31:63/239,278 ~32:31/08/2021;33:US ~31:63/392,778 ~32:27/07/2022

2024/01731 ~ Complete ~54:IL-13 INHIBITORS FOR THE TREATMENT OF PRURIGO NODULARIS ~71:Dermira, Inc., Lilly Corporate Center, INDIANAPOLIS 46285, IN, USA, United States of America ~72: LIMA, Renata Gontijo;SIU, Kimberly Mung Chee~ 33:US ~31:63/244,427 ~32:15/09/2021

2024/01738 ~ Complete ~54:A COMPOSITE SYSTEM FOR AGRICULTURE ~71:UPL LIMITED, CTS No 610 B/2, Behind Off Western Express Highway, Teacher's Colony, India ~72: SHARMA, Shiv Kumar;SHIRSAT, Rajan Ramakant;WAGH, Pradip Dattatray~ 33:IN ~31:202121034512 ~32:30/07/2021

2024/01724 ~ Complete ~54:BIOPOLYMER COMPOSITIONS INCORPORATING POLY(3-HYDROXYPROPIONATE) ~71:DANIMER IPCO, LLC, 140 Industrial Boulevard Bainbridge, Georgia, 39817, United States of America ~72: MICHAEL MANG;PHILLIP VAN TRUMP~ 33:US ~31:63/226,813 ~32:29/07/2021

2024/01733 ~ Complete ~54:ANTIMICROBIAL PEPTIDOMIMETICS ~71:Basilea Pharmaceutica International AG, Allschwil, Hegenheimerweg 167b, ALLSCHWIL 4123, SWITZERLAND, Switzerland;Universität Zürich, Rämistrasse 71, ZÜRICH 8006, SWITZERLAND, Switzerland ~72: BRABET, Emile;DESJONQUERES, Nicolas;JUNG, Françoise;LUTHER, Anatol;MÖHLE, Kerstin;OBRECHT, Daniel;UPERT, Grégory;ZBINDEN, Peter;ZERBE, Oliver~ 33:EP ~31:21020401.2 ~32:05/08/2021

2024/01740 ~ Complete ~54:RAINWATER DISTRIBUTION APPARATUS ~71:EDC TANKS, The Victoria Maine, 11th Floor, Suite 1101, 71 Margaret Mncadi Avenue, Victoria Embankment, Durban 4001, SOUTH AFRICA, South Africa ~72: SINGH, Ajit~ 33:ZA ~31:2021/05330 ~32:28/07/2021

2024/01723 ~ Complete ~54:PRODUCTION OF BIMODAL MOLECULAR WEIGHT POLY(HYDROXYALKANOATES) ~71:DANIMER IPCO, LLC, 140 Industrial Boulevard Bainbridge, Georgia, 39817, United States of America ~72: MICHAEL MANG;PHILLIP VAN TRUMP~ 33:US ~31:63/226,826 ~32:29/07/2021

2024/01736 ~ Complete ~54:IMPLANTS, INSTRUMENTS, SYSTEMS, AND METHODS OF USING ~71:Paragon 28, Inc., 14445 Grasslands Drive, ENGLEWOOD 80112, CO, USA, United States of America ~72: BRINKER, Laura Zagrocki;DACOSTA, Albert;GILL, Sean;KARAS, Kaitlin;MAJORS, Benjamin~ 33:US ~31:63/203,852 ~32:02/08/2021

- APPLIED ON 2024/02/29 -

2024/01746 ~ Provisional ~54:DUAL SMART CARD ~71:Ijere Joshua Izuchukwu, No 155 old Onitsha Road Nnewi, Nigeria ~72: Ijere Joshua Izuchukwu~

2024/01759 ~ Complete ~54:ADAPTER FOR A WORK IMPLEMENT WITH THRU-HOLE AND RAIL  
~71:CATERPILLAR INC., 100 NE Adams Street - AH9510, United States of America ~72: JURA, Jason  
G.;SERRURIER, Douglas C.;SINN, Eric T.;WELLS, Corey M.~ 33:US ~31:17/464,793 ~32:02/09/2021

2024/01774 ~ Complete ~54:EXCITER APPARATUS ~71:FLSmidth A/S, Vigerslev Alle 77, VALBY 2500,  
DENMARK, Denmark ~72: ALHASSAN, Shanoon;GARDINER, Michael;HALANI, Tejas;ONG, Gordon;SADLER,  
Byron;SEYMOUR, Clayton~ 33:DK ~31:PA202101001 ~32:20/10/2021

2024/01775 ~ Complete ~54:METHOD OF OPERATING A HEAT RELEASING REACTOR, A HEAT RELEASING  
REACTOR AND COMPUTATION SYSTEM FOR A HEAT RELEASING REACTOR ~71:Sumitomo SHI FW  
Energia Oy, Metsänneidonkuja 10, ESPOO 02130, FINLAND, Finland ~72: KETTUNEN, Ari;MIETTINEN, Jouni~  
33:IB ~31:2021/074838 ~32:09/09/2021

2024/01778 ~ Complete ~54:EXCITER WITH SEPARATE HOUSING AND MOUNTING PLATE ~71:Sandvik  
Rock Processing Australia Pty Limited, 65 Epping Road, NORTH RYDE 2113, NEW SOUTH WALES,  
AUSTRALIA, Australia ~72: COOK, Tim Stanton;MANN, Simon;TEYHAN, Douglas Robert;WIELTSCH, Andreas~  
33:AU ~31:2021903046 ~32:22/09/2021

2024/01744 ~ Provisional ~54:KEY CONTROL SYSTEM AND METHOD ~71:W.T.F.M INVESTMENTS (PTY)  
LTD., 93 Turffontein Road, Stafford, TURFFONTEIN, Johannesburg 2140, Gauteng, SOUTH AFRICA, South  
Africa ~72: ANGELOS, Komninos George~

2024/01758 ~ Complete ~54:RNA-GUIDED GENOME RECOMBINEERING AT KILOBASE SCALE ~71:THE  
BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY, Office of the General Counsel  
Building 170, 3rd Floor, Main Quad, P.O. Box 20386, United States of America ~72: CONG, Le~ 33:US  
~31:63/239,732 ~32:01/09/2021

2024/01762 ~ Complete ~54:THROTTLE-COOLED INFRARED DETECTOR, INTELLIGENT MOLD AND  
INJECTION COMPRESSION MOLDING METHOD ~71:PAN, Yong, Unit 301, Unit 1, Building 63, Baiyangxin  
Village, Dongcheng Street, Huangyan District,, Taizhou, Zhejiang, 318020, People's Republic of China ~72: PAN,  
Yong~

2024/01777 ~ Complete ~54:SYSTEMS AND METHODS FOR FLUID FLOW BASED RENEWABLE ENERGY  
GENERATION ~71:Aeromine Technologies, Inc., 3833 Dunlavy Street #851, HOUSTON 77006, TX, USA, United  
States of America ~72: WESTERGAARD, Carsten Hein~ 33:US ~31:17/458,106 ~32:26/08/2021

2024/01780 ~ Complete ~54:EXCITER LUBRICATION SYSTEM ~71:Sandvik Rock Processing Australia Pty  
Limited, 65 Epping Road, NORTH RYDE 2113, NEW SOUTH WALES, AUSTRALIA, Australia ~72: COOK, Tim  
Stanton;MANN, Simon;TEYHAN, Douglas Robert;WIELTSCH, Andreas~ 33:AU ~31:2021903046  
~32:22/09/2021

2024/01783 ~ Complete ~54:DOSAGE REGIME ~71:ZEALAND PHARMA A/S, Sydmarken 11 2860 Søborg,  
Denmark ~72: MIKKEL ASKJÆR AGERSNAP~ 33:EP ~31:21194879.9 ~32:03/09/2021;33:EP  
~31:22160234.5 ~32:04/03/2022

2024/01745 ~ Provisional ~54:SHORT-RANGE WIRELESS NETWORK MUSIC HAIRBRUSH BUILT-IN HANDS-  
FREE WITH MICROPHONE AND LOUDSPEAKER ~71:AHMED WASEEF SAIB, 24 Park Avenue, Desainager,  
South Africa ~72: AHMED WASEEF SAIB~

2024/01747 ~ Complete ~54:ELECTRONIC DEVICE FOR ESTIMATING FOREST CARBON STORAGE  
~71:Research Institute of Forest Resource Information Techniques, Chinese Academy of Forestry, No.1



Dongxiaofu, Qinglongqiao Street, Xiangshan Road, Haidian District, Beijing, 100091, People's Republic of China ~72: HE, Chenrui;LI, Xiaoyao;PANG, Lifeng;TAN, Bingxiang~

2024/01750 ~ Complete ~54:A HEAT DISSIPATION DEVICE FOR BIG DATA SERVER ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467000, People's Republic of China ~72: Kun Liu;Lei Liu~

2024/01767 ~ Complete ~54:SOTORASIB AND AN EGFR ANTIBODY FOR TREATING CANCER COMPRISING A KRAS G12C MUTATION ~71:Amgen Inc., One Amgen Center Drive, THOUSAND OAKS 91320-1799, CA, USA, United States of America ~72: CHAN, Emily;DUTTA, Sandeep;FRIBERG, Gregory;HENARY, Haby;HOUK, Brett E.;MATHER, Omar;NGARMCHAMNANRITH, Gataree~ 33:US ~31:63/241,601 ~32:08/09/2021;33:US ~31:63/298,747 ~32:12/01/2022;33:US ~31:63/374,012 ~32:31/08/2022

2024/01769 ~ Complete ~54:ANTI- TGFB1,2,3 ANTIBODIES AND THERAPEUTIC USES THEREOF ~71:Zoetis Services LLC, 10 Sylvan Way, PARSIPPANY 07054, NJ, USA, United States of America ~72: BERGERON, Lisa Marie;CAMPOS, Henry Luis~ 33:US ~31:63/248,679 ~32:27/09/2021

2024/01782 ~ Complete ~54:NITROGEN-CONTAINING HETEROCYCLIC DERIVATIVE INHIBITOR, AND PREPARATION METHOD THEREFOR AND USE THEREOF ~71:JIANGSU HANSOH PHARMACEUTICAL GROUP CO., LTD., Economic and Technological Development Zone, Lianyungang, Jiangsu, 222047, People's Republic of China;SHANGHAI HANSOH BIOMEDICAL CO., LTD., Building 2, No.3728 Jinke Road, Zhangjiang, Hi-Tech Park, Shanghai, 201203, People's Republic of China ~72: FENGCHANG CHENG;GUANGJUN SUN;PENG GAO;WENHUA XIU;WENSHENG YU~ 33:CN ~31:202110995982.2 ~32:27/08/2021;33:CN ~31:202111334040.6 ~32:11/11/2021;33:CN ~31:202111663528.3 ~32:31/12/2021

2024/01749 ~ Complete ~54:A FABRICATION METHOD AND APPLICATION METHOD OF NONLINEAR GUIDED WAVE DETECTION COMBINED TRANSDUCER ~71:Changsha Aeronautical Vocational and Technical College, Tiaoma Town, Yuhua District, Changsha City, Hunan Province, 410124, People's Republic of China;Nanchang Hangkong University, No.696 Fenghe South Avenue, Nanchang City, Jiangxi Province, 330063, People's Republic of China;National University of Defense Technology, No.109 Deya Road, Changsha City, Hunan Province, 410073, People's Republic of China ~72: Dongbao GAO;Haofang OUYANG;Jie WANG;Kaifeng HAN;Minwang FU;Xianke PENG;Xiaohu TANG;Xingxing YU;Ying ZHU~

2024/01757 ~ Complete ~54:RNA MOLECULES ~71:PFIZER INC., 66 Hudson Boulevard East, New York, United States of America ~72: BENNETT, Eric Matthew;DIAZ, Fernando Martin;DORMITZER, Philip Ralph;JANSEN, Kathrin Ute;MUNOZ-MORENO, Raquel;SOLORZANO QUIJANO, Alicia~ 33:US ~31:63/256,283 ~32:15/10/2021;33:US ~31:63/293,220 ~32:23/12/2021;33:US ~31:63/373,539 ~32:25/08/2022

2024/01761 ~ Complete ~54:SPINNING FORMING APPARATUS AND METHOD FOR ALUMINUM INNER CONTAINER OF HIGH-PRESSURE HYDROGEN CYLINDER ~71:SINOMA SCIENCE AND TECHNOLOGY (SUZHOU) CO., LTD., No. 68, Changyang Street, Suzhou Industrial Park, Jiangsu, 215021, People's Republic of China ~72: MI, Kuan;WANG, Jun;WANG, Yanhui~ 33:CN ~31:202111030213.5 ~32:03/09/2021

2024/01766 ~ Complete ~54:CLIP AND CLIP INSTALLATION APPARATUS ~71:EVA-LAST HONG KONG LIMITED, 12/FTOWER 3, 33 CANTON RD, TSIMSHATSUI, Hong Kong ~72: CHAPMAN, Gareth Wade Gadsby;CHAPMAN, Wesley Raymond;COLLENDER, Caitlynne Gail;MINNE, Marc Peter~ 33:ZA ~31:2021/00799 ~32:01/08/2021;33:IB ~31:PCT/IB2022/057064 ~32:29/07/2022

2024/01752 ~ Complete ~54:A SOLAR MOVABLE REFRIGERATION HOUSE ~71:Suzhou Santuo Cold Chain Technology Co.,Ltd, Room 808, Building 11, University Science Park, No. 20, Jianxiang Road, Science and

Education New Town, Taicang, Suzhou, Jiangsu, 215400, People's Republic of China ~72: Haibing Du;Ruiqiu Du~ 33:CN ~31:202323410240.2 ~32:14/12/2023

2024/01756 ~ Complete ~54:HIGH STRENGTH PRESS HARDENED STEEL PART AND METHOD OF MANUFACTURING THE SAME ~71:ARCELORMITTAL, 24-26, Boulevard d'Avranches, Luxembourg ~72: Alice DUMONT;Pascal DIETSCH;Sebastian COBO;Stéphanie MICHAUT~ 33:IB ~31:PCT/IB2021/058358 ~32:14/09/2021

2024/01787 ~ Complete ~54:METHODS OF TREATING CANCER WITH ANTI-HER2 BIPARATOPIC ANTIBODIES ~71:ZYMEWORKS BC INC., 114 East 4th Avenue, Suite 800, Vancouver, British Columbia, V5T 1G4, Canada ~72: JEFFREY RYAN PROCTOR;NEIL C JOSEPHSON;RUPERT H DAVIES~ 33:US ~31:63/244,690 ~32:15/09/2021

2024/01755 ~ Complete ~54:APPLICATION OF STEROID COMPOUND IN PREPARATION OF DRUG FOR PREVENTING AND/OR TREATING EYE FLOATERS ~71:GUANGZHOU OCUSUN OPHTHALMIC BIOTECHNOLOGY CO., LTD., Room 402, No. 223 West Huanshi Road, Nansha District, Guangzhou, Guangdong, 511400, People's Republic of China;OCUSUN OPHTHALMIC PHARMACEUTICAL (GUANGZHOU) CO., LTD., Floor 1-3, Block A, Building 203, No. 2 Tongfa Road, Wanqingsha Town, Nansha District, Guangzhou, Guangdong, 511400, People's Republic of China ~72: CAO, Chen;SU, Yingxue;WANG, Yandong;WU, Meirong;XUE, Yaping;YU, Chuilian~ 33:CN ~31:202110951369.0 ~32:18/08/2021

2024/01764 ~ Complete ~54:PART ENCAPSULATION DEVICE FOR ELECTRONIC EQUIPMENT MANUFACTURING ~71:Wuhu Super Machinery R & D Technology Co. , Ltd., Building 415, Commercial Building 1, South District, Longhu New City, Longhu Street, Sanshan Economic Development Zone, Wuhu City, People's Republic of China ~72: Chen Xiaodong~

2024/01748 ~ Complete ~54:SECURITY MONITORING PROBE BASED ON INTELLIGENT IMAGE RECOGNITION ~71:Hebei Tangxun Information Technology Co., Ltd., 4th Floor, Software Building, No. 9 Ruining Road, Luquan Economic Development Zone, Shijiazhuang, Hebei, 050000, People's Republic of China ~72: WANG Yujiang;ZHOU Xiangji~ 33:CN ~31:202410112144X ~32:26/01/2024

2024/01772 ~ Complete ~54:METHOD AND DEVICE FOR TESTING A VOLTAGE CONVERTER ~71:OMICRON electronics GmbH, Oberes Ried 1, KLAUS 6833, AUSTRIA, Austria ~72: GOPP, David~ 33:AT ~31:A50676/2021 ~32:20/08/2021

2024/01768 ~ Complete ~54:IMMUNOMODULATING AZALIDES ~71:Zoetis Services LLC, 10 Sylvan Way, PARSIPPANY 07054, NJ, USA, United States of America ~72: COX, Mark R.;EWIN, Richard A.;HOT, Imelda;MADDUX, Todd M.;RESPONDEK, Tomasz~ 33:US ~31:63/241,126 ~32:07/09/2021

2024/01779 ~ Complete ~54:COOLING VIBRATION EXCITER APPARATUS ~71:Sandvik Rock Processing Australia Pty Limited, 65 Epping Road, North Ryde, NEW SOUTH WALES 2113, AUSTRALIA, Australia ~72: MANN, Simon;WIELTSCH, Andreas~ 33:AU ~31:2021903046 ~32:22/09/2021

2024/01786 ~ Complete ~54:COMPOSITIONS AND METHODS FOR TREATING POST-COVID CONDITIONS OF FATIGUE ~71:AIM IMMUNOTECH INC., 2117 SW Highway, 484, Ocala, Florida, 34473, United States of America ~72: DAVID R STRAYER;THOMAS K EQUELS~ 33:US ~31:63/235,388 ~32:20/08/2021;33:US ~31:63/342,562 ~32:16/05/2022

2024/01770 ~ Complete ~54:ADAPTATION OF PLATFORM HOSTS TO IGF<sup>-</sup> MEDIA ~71:Amgen Inc., One Amgen Center Drive, THOUSAND OAKS 91320, CA, USA, United States of America ~72: DARIS, Kristine Marie;GISLASON, Eric;LE, Huong Thi Ngoc;MUNRO, Trent Phillip~ 33:US ~31:63/242,623 ~32:10/09/2021

2024/01781 ~ Complete ~54:COMPOSITIONS AND METHODS FOR INHIBITING EXPRESSION OF ANGIOPOIETIN-LIKE 3 (ANGPTL3) PROTEIN ~71:SHANGHAI ARGO BIOPHARMACEUTICAL CO., LTD., 337 Shahe Road, J2026, Room 1\_203, People's Republic of China ~72: SHAO, Pengcheng Patrick;SHU, Dongxu~ 33:CN ~31:PCT/CN2021/119734 ~32:23/09/2021

2024/01785 ~ Complete ~54:DOSING OF MUSCLE TARGETING COMPLEXES FOR TREATING DYSTROPHINOPATHIES ~71:DYNE THERAPEUTICS, INC., 1560 Trapelo Road Waltham, Massachusetts, 02451, United States of America ~72: BRENDAN QUINN;CHRIS MIX;CODY A DESJARDINS;JOHN DAVIS;JOHN NAJIM;KIM TANG;MOHAMMED T QATANANI;OXANA BESKROVNAYA;PEIYI SHEN;ROMESH R SUBRAMANIAN;SCOTT HILDERBRAND;SEAN SPRING;TIMOTHY WEEDEN~ 33:US ~31:63/245,162 ~32:16/09/2021;33:US ~31:63/250,177 ~32:29/09/2021;33:US ~31:63/293,619 ~32:23/12/2021;33:US ~31:63/348,876 ~32:03/06/2022

2024/01743 ~ Provisional ~54:SCOOTER DELIVERY BOX ~71:EASY DISPLAY ADS (PTY) LTD., 12467 Evaton West Ext 7, 1984, Gauteng, SOUTH AFRICA, South Africa ~72: DLAMINI, Siphwe~

2024/01753 ~ Complete ~54:COMPOSITE GROOVE PANEL, DOOR AND METHOD OF CONSTRUCTION ~71:AFRICA TIMBER MARKETING CC, Plot 365, R104 Road, Donkerhoek, Pretoria East, South Africa ~72: SERVAAS JACOBUS BADENHORST~ 33:ZA ~31:2022/12981 ~32:30/11/2022

2024/01754 ~ Complete ~54:COMBINATIONS OF TRIAZOLINONE HERBICIDES WITH SAFENERS ~71:UPL CORPORATION LIMITED, 6th Floor, Suite 157B Harbor Front Building President John Kennedy Street, Mauritius;UPL EUROPE LTD, The Centre, 1st Floor Birchwood Park Warrington, United Kingdom;UPL MAURITIUS LIMITED, 6th Floor, Suite 157B Harbor Front Building President John Kennedy Street, Mauritius ~72: LENZ, Giuvan;POLLET, Jean-Phillipe;RAO, Ganesh~ 33:EP ~31:21306085.8 ~32:03/08/2021

2024/01760 ~ Complete ~54:TIP WITH THRU-HOLE AND PIN RETAINING GEOMETRY ~71:CATERPILLAR INC., 100 NE Adams Street, United States of America ~72: JURA, Jason G.;SERRURIER, Douglas C.;SINN, Eric T.;WELLS, Corey M.~ 33:US ~31:17/464,838 ~32:02/09/2021

2024/01771 ~ Complete ~54:METHOD FOR THE TREATMENT OF A FIBROUS RAW MATERIAL ~71:Infinited Fiber Company Oy, Tekniikantie 14, ESPOO 02150, FINLAND, Finland ~72: SIREN, Sakari;STJERNBERG, Martin~ 33:FI ~31:20215949 ~32:09/09/2021

2024/01773 ~ Complete ~54:INJECTABLE HIGH CONCENTRATION PHARMACEUTICAL FORMULATIONS AND METHODS OF MANUFACTURING AND USE THEREOF ~71:Xeris Pharmaceuticals, Inc., 1375 West Fulton Street, Suite 1300, CHICAGO 60607, IL, USA, United States of America ~72: BOWMAN, Diana;COLEMAN, Scott;DONOVAN, Martin;FITCH, Richard;PRESTRELSKI, Steven;SLOAT, Brian~ 33:US ~31:63/242,405 ~32:09/09/2021;33:US ~31:63/351,786 ~32:13/06/2022

2024/01776 ~ Complete ~54:ELECTRIC STOVE ~71:Paul Wurth S.A., 32, rue d'Alsace, LUXEMBOURG 1122, LUXEMBOURG, Luxembourg ~72: BRUNI, Davide;CASTELLI, Andrea;GAROFALO, Federico~ 33:LU ~31:500686 ~32:24/09/2021

2024/01784 ~ Complete ~54:OXADIAZASPIRO COMPOUNDS FOR USE IN THE TREATMENT OF MOTONEURON DEGENERATION OR IN NEUROPROTECTION ~71:ESTEVE PHARMACEUTICALS, S.A., Passeig de la Zona Franca, 109, 4ª Planta , 08038, Barcelona, Spain ~72: JOSE-MIGUEL VELA-HERNANDEZ;MANUEL MERLOS-ROCA;MIREIA HERRANDO-GRABULOSA;XAVIER NAVARRO-ACEBES~ 33:EP ~31:EP21382845 ~32:20/09/2021



2024/01788 ~ Complete ~54:ONE-MACHINE, MULTI-POINT DRIVE MECHANISM FOR RAILWAY SWITCH  
~71:CHINA RAILWAY BAOJI BRIDGE GROUP CO., LTD, No. 80 Qingjiang Road, Weibin District, Baoji City,  
People's Republic of China ~72: LEI, Jie;LI, Chunqiang;SHI, Longbo;SHI, Qingfeng;YAN, Yuqing~ 33:CN  
~31:202111061348.8 ~32:10/09/2021

2024/01751 ~ Complete ~54:A WATERLOGGING WATER MONITORING SYSTEM FOR URBAN PHYSICAL  
EXAMINATION PLATFORM ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District,  
Pingdingshan City, Henan Province, 467000, People's Republic of China ~72: Kun Liu;Lei Liu~

2024/01763 ~ Complete ~54:EMULSIFIER COMPOSITIONS ~71:GLEN SOL (PTY) LIMITED, 3 Erlswoldway,  
Saxonwold, South Africa ~72: GREUB, Fritz~ 33:ZA ~31:2021/06400 ~32:02/09/2021

2024/01765 ~ Complete ~54:AN IMAGING SYSTEM WITH A SCANNING MIRROR ~71:EUROPEAN SPACE  
AGENCY, Technology Transfer Programme Office, Keplerlaan 1, Netherlands;OHB SYSTEM AG, Manfred-  
Fuchs-Str. 1, Germany ~72: DEIML, Michael;ERHARD, Markus;MARESI, Luca~

- APPLIED ON 2024/03/01 -

2024/01803 ~ Complete ~54:LECTIN-DRUG CONJUGATES ~71:UNICHEM LABORATORIES LIMITED,  
Unichem Bhavan, Prabhat Estate, Off. S. V. Road, Jogeshwari (W), Mumbai, Maharashtra, 400102, India ~72:  
BAKSHI, Gautam;IYAPPAN, Saravanakumar;PATIL, Ganesh;SATHE, Dhananjay~ 33:IN ~31:202121044592  
~32:01/10/2021

2024/01815 ~ Complete ~54:VEHICLE MONITORING SYSTEM ~71:YAZAKI CORPORATION, 8-15, Konan 1-  
Chome, Minato-ku, Tokyo, 1080075, Japan ~72: KOSUKE KOGO;MUNEHICO KAWAMOTO~ 33:JP ~31:2021-  
163631 ~32:04/10/2021

2024/01817 ~ Complete ~54:FACE IMAGE CLUSTERING METHOD AND SYSTEM BASED ON LOCALIZED  
SIMPLE MULTIPLE KERNEL K-MEANS ~71:ZHEJIANG NORMAL UNIVERSITY, 688 Yingbin Road, Jinhua,  
People's Republic of China ~72: LI, Miaomiao;XU, Huiying;YIN, Jianping;ZHANG, Yi;ZHU, Xinzong~ 33:CN  
~31:202110940777.6 ~32:17/08/2021

2024/01820 ~ Complete ~54:METHOD AND APPARATUS FOR ULTRASONIC MEASUREMENT OF  
TEMPERATURE FIELD INSIDE CABLE ~71:XI'AN UNIVERSITY OF TECHNOLOGY, No. 5, Jinhua South Road,  
Beilin District, Xi'an, People's Republic of China ~72: LIAN, Huan;LIU, Rui;QIN, Sichen;WANG, Qian;WANG,  
Tao;ZHA, Junwei;ZHANG, Jiawei~ 33:CN ~31:202111047779.9 ~32:08/09/2021

2024/01807 ~ Complete ~54:PHARMACEUTICAL COMPOSITIONS COMPRISING HLA FUSION PROTEINS  
~71:IMMUNOS THERAPEUTICS AG, Wagistrasse 14, Switzerland ~72: KUMAR, Anil;MARROQUIN  
BELAUNZARAN, Osiris;RAFIEL, Anahita;RENNER, Christoph~ 33:EP ~31:21190004.8 ~32:05/08/2021;33:EP  
~31:21190005.5 ~32:05/08/2021;33:EP ~31:21207324.1 ~32:09/11/2021

2024/01797 ~ Complete ~54:HEALTH DATA MANAGEMENT METHOD BASED ON EDGE COMPUTING  
~71:GUANGZHOU KEFU MEDICAL TECHNOLOGY CO., LTD, Nansha District, Dongyong Town, Dongshen  
Village No. 5 factory floor, People's Republic of China ~72: LIN, Yongming;LIU, Enping;LIU, Sujun;WANG,  
Shengxiang;YANG, Dingguang~

2024/01809 ~ Complete ~54:POLYPEPTIDES ~71:DJS Antibodies Ltd, Wood Centre For Innovation, Quarry  
Road, Headington, OXFORD OX3 8SB, UNITED KINGDOM, United Kingdom ~72: ILLINGWORTH,  
Joseph;INGHAM, Megan;LLEWELLYN, David;STEWART, Michael~ 33:EP ~31:21194607.4  
~32:02/09/2021;33:EP ~31:22155472.8 ~32:07/02/2022

2024/01796 ~ Complete ~54:SYSTEM FOR AND METHOD OF LOCATING LOST PETS/ANIMALS  
~71:COMMUNITY PETS (PTY) LTD., Unit 9, Norma Jean Square, 244 Jean Avenue, Centurion, Gauteng, 0157,  
South Africa ~72: JOHANNES WILLEM PRETORIUS~

2024/01805 ~ Complete ~54:RECOMBINANT GLYCAN BINDING PROTEINS AND ITS USE ~71:UNICHEM  
LABORATORIES LIMITED, Unichem Bhavan, Prabhat Estate, Off. S. V. Road, Jogeshwari (W), Mumbai,  
Maharashtra, 400102, India ~72: BAKSHI, Gautam;IYAPPAN, Saravanakumar;PATIL, Ganesh;SATHE,  
Dhananjay~ 33:IN ~31:202121044592 ~32:01/10/2021

2024/01819 ~ Complete ~54:MULTI-VIEW TEXT CLUSTERING METHOD AND SYSTEM BASED ON ONE-  
STEP LATE FUSION ~71:DONGGUAN UNIVERSITY OF TECHNOLOGY, No. 1, University Road, Songshan  
Lake District, Dongguan City, People's Republic of China;ZHEJIANG NORMAL UNIVERSITY, 688 Yingbin Road,  
Jinhua, People's Republic of China ~72: LI, Miaomiao;LIU, Xinwang;XU, Huiying;YIN, Jianping;ZHANG, Yi;ZHU,  
Xinzhong~ 33:CN ~31:202110940783.1 ~32:17/08/2021

2024/01812 ~ Complete ~54:USE OF COMPOSITIONS WITH ETHOFUMESATE AND BIXLOZONE IN WHEAT  
CROPS ~71:Bayer Aktiengesellschaft, Kaiser-Wilhelm-Allee 1, LEVERKUSEN 51373, GERMANY, Germany ~72:  
AULER, Thomas;TOSSENS, Herve~ 33:EP ~31:21189245.0 ~32:02/08/2021

2024/01814 ~ Complete ~54:COMBINATION MEDICAMENTS COMPRISING HLA FUSION PROTEINS  
~71:IMMUNOS THERAPEUTICS AG, Wagistrasse 14, Switzerland ~72: GUALANDI, Marco;MARROQUIN  
BELAUNZARAN, Osiris;RAFIEI, Anahita~ 33:EP ~31:21190003.0 ~32:05/08/2021

2024/01806 ~ Complete ~54:A MODIFIED HLA-B57 WITH INCREASED EXPRESSION LEVELS ~71:IMMUNOS  
THERAPEUTICS AG, Wagistrasse 14, Switzerland ~72: MARROQUIN BELAUNZARAN, Osiris;RENNER,  
Christoph;VOGT, Lorenz~ 33:EP ~31:21190004.8 ~32:05/08/2021;33:EP ~31:21190005.5  
~32:05/08/2021;33:EP ~31:21207324.1 ~32:09/11/2021

2024/01818 ~ Complete ~54:KNOWLEDGE GRAPH RECOMMENDATION METHOD AND SYSTEM BASED ON  
IMPROVED KGAT MODEL ~71:ZHEJIANG NORMAL UNIVERSITY, 688 Yingbin Road, Jinhua, People's  
Republic of China ~72: JIN, Lintong;XU, Huiying;ZHU, Xinzhong~ 33:CN ~31:202111457641.6 ~32:01/12/2021

2024/01795 ~ Complete ~54:REINFORCED COVERAGE SYSTEM ~71:SPAMER, Hendrik Jacobus Venter, 16  
Castle Pine Crescent, Silver Lakes Golf Estate, South Africa ~72: SPAMER, Hendrik Jacobus Venter~ 33:ZA  
~31:2022/13070 ~32:02/12/2022

2024/01802 ~ Complete ~54:SYSTEM AND METHOD FOR GOLF COURSE MANAGEMENT ~71:TRAN, Van  
Nam, 19th Floor, Viwaseen Tower Office Building, No. 48, To Huu Street, Trung Van Ward, Nam Tu Liem District,  
Viet Nam ~72: TRAN, Van Nam~ 33:VN ~31:1-2021-05032 ~32:16/08/2021

2024/01816 ~ Complete ~54:A DESICCANT DEHUMIDIFIER ~71:MUNTERS EUROPE AKTIEBOLAG, Box  
1150, 164 26, Kista, Sweden ~72: URBAN GUNNARSSON~ 33:SE ~31:2151015-1 ~32:23/08/2021

2024/01791 ~ Provisional ~54:INDUCTIVE THUMB STICK ~71:AZOTEQ HOLDINGS LIMITED, c/o Spyrou  
Kyprianou Avenue 20, Chapo Central, Cyprus ~72: BRUWER, Frederick Johannes;BRUWER, Frederick  
Johannes Jnr~

2024/01800 ~ Complete ~54:V-TYPE FILTER FOR DEEP PURIFICATION TREATMENT OF  
MUNICIPALWASTEWATER ~71:SUZHOU MUNICIPAL ENGINEERING DESIGN INSTITUTE CO., LTD, NO.111,  
Shuyuan Lane, Suzhou, Jiangsu, 215000, People's Republic of China ~72: CHEN, Minhao;HU, Xinghua;LI,

Haoran;LV, Gang;MENG, Fanru;SHEN, Hua;SU, Xiang;WANG, Ruoyun;WANG, Zhihong;XIA, Xu;XU, Jingcheng~ 33:CN ~31:202222389231.9 ~32:08/09/2022

2024/01793 ~ Complete ~54:DEVICE AND METHOD FOR DETECTING LEAKAGE POINT OF VERTICALLY LAID HIGH-RESISTANCE IMPERMEABLE MEMBRANE ~71:CHINA UNIVERSITY OF MINING AND TECHNOLOGY, No.1 Daxue Road, Quanshan District, Xuzhou City, Jiangsu Province, 221116, People's Republic of China;North China Engineering Investigation Institute Co., Ltd, NO.39 Huitong Road, Yuhua District, Shijiazhuang City, Hebei Province, 050021, People's Republic of China ~72: HAN Guilei;YE Sizhe;YIN Qian;YUAN Shengchao;ZHANG Qiang~ 33:CN ~31:2023104415188 ~32:23/04/2023

2024/01799 ~ Complete ~54:METHOD FOR PRODUCING A PLASTIC GRANULATE ~71:ALPLA WERKE ALWIN LEHNER GMBH & CO. KG, Allmendstrasse 81, Austria ~72: Andreas WEBER;Patrik KARRER;Wibke BECKER~ 33:CH ~31:70154/2021 ~32:11/08/2021

2024/01801 ~ Complete ~54:ENVIRONMENTAL-FRIENDLY CIGARETTE TIPPING PAPER AND PREPARATION SYSTEM THEREOF ~71:Anhui Tianxiang high-tech Special Packing Material Group Co. , Ltd., 1 Tengyun Road, Yuexi County Economic Development Zone, Anqing, Anhui, 246699, People's Republic of China ~72: LIU Hanqiao;LIU Shaobin;YU Liugen;YU Tianxiang~ 33:CN ~31:202210983926.1 ~32:17/08/2022

2024/01808 ~ Complete ~54:RNA EDITING VIA RECRUITMENT OF SPLICEOSOME COMPONENTS ~71:Tacit Therapeutics, Inc., 329 Oyster Point Blvd, JLABS, 3rd Floor, U1 Bio, SOUTH SAN FRANCISCO 94080, CA, USA, United States of America ~72: NELLES, David A.~ 33:US ~31:63/240,428 ~32:03/09/2021;33:US ~31:63/345,660 ~32:25/05/2022

2024/01813 ~ Complete ~54:FUSION PROTEIN CONTAINING ANTI-TIGIT ANTIBODY AND TGF-BR, AND PHARMACEUTICAL COMPOSITION AND USE THEREOF ~71:Akeso Biopharma, Inc., 6 Shennong Road, Torch Development Zone, ZHONGSHAN 528437, GUANGDONG, CHINA (P.R.C.), People's Republic of China ~72: LI, Baiyong;WANG, Zhongmin;XIA, Yu;ZHANG, Peng~ 33:CN ~31:202110961038.5 ~32:20/08/2021

2024/01792 ~ Provisional ~54:A SYSTEM AND METHOD FOR DETERMINING A RELEVANCE INDICATOR ~71:MAVEN (PTY) LTD, 6 Grey Street, Trichardt, South Africa ~72: REYNEKE, Josef René;REYNEKE, Petrus Josef;VAN HEERDEN, Tania~

2024/01794 ~ Complete ~54:FULL-FACE GROUTING-BASED CRD CONSTRUCTION METHOD FOR EXCAVATING TUNNEL UNDERNEATH BRIDGE ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467036, People's Republic of China ~72: CHEN, Ruoxi;GE, Xiaohan;LI, Yuwei;REN, Shengnan;SHEN, Yuzhe;SUN, Yankun;YAO, Jiahui;YUAN, Yanzhao;ZHAI, Juyun;ZHAI, Weimeng;ZHU, Hanyu~

2024/01790 ~ Provisional ~54:BENEFICIARY BENEFITS AND ASSETS NOTIFICATION SYSTEM ~71:Theobald Ayatolla Mbadaliga, 43 Waterbessie Street, South Africa ~72: Theobald Ayatolla Mbadaliga~

2024/01804 ~ Complete ~54:NOVEL OMEGA 3 CARRIER PREPARATIONS FOR INHALATION DRUG DELIVERY FOR TREATING LUNG INFLAMMATION ~71:LEIUTIS PHARMACEUTICALS LLP, Plot No.: 23, TIE 1st Phase, Balanagar, India ~72: AKULA, Srinath;BANDA, Nagaraju;BRENNAN, James Thomas;KOCHERLAKOTA, Chandrashekar;KOTHAPALLI, Sesha Durga Kumar;NARALA, Arjun~ 33:IN ~31:202141035170 ~32:04/08/2021;33:IN ~31:202141053853 ~32:23/11/2021

2024/01798 ~ Complete ~54:METHOD FOR MANAGING HEALTH BASED ON PASSIVE INTERNET OF THINGS ~71:GUANGZHOU KEFU MEDICAL TECHNOLOGY CO., LTD, Nansha District, Dongyong Town,

Dongshen Village No. 5 factory floor, People's Republic of China ~72: LIN, Yongming;LIU, Enping;LIU, Sujun;WANG, Shengxiang;YANG, Dingguang~

2024/01810 ~ Complete ~54:PERSONAL CASE COMPOSITION BASED ON ANIONIC SURFACTANT, AMPHOTERIC SURFACTANT AND ALKYL GLUCOSIDE ~71:Colgate-Palmolive Company, 300 Park Avenue, NEW YORK 10022, NY, USA, United States of America ~72: CHEN, Changlong;DENG, Yanjun;HUANG, Dong Yao;SHEN, Hongwei;ZENG, Yuyan~ 33:CN ~31:202111054705.8 ~32:09/09/2021

2024/01811 ~ Complete ~54:PERSONAL CARE COMPOSITIONS BASED ON AMINOACIDS AND SKIN PENETRATION ENHANCER ~71:Colgate-Palmolive Company, 300 Park Avenue, NEW YORK 10022, NY, USA, United States of America ~72: BOYD, Thomas;CHENG, Shujiang;GOSWAMI, Sayantani;NAMKOONG, Jin;SOLIMAN, Nadia;WU, Qiang~ 33:US ~31:63/242,704 ~32:10/09/2021

- APPLIED ON 2024/03/04 -

2024/01826 ~ Complete ~54:A DEVICE FOR REAL-TIMELY DETECTING THE APPARENT VISCOSITY OF ASPHALT IN DIFFERENT STATES ~71:Guangxi Zhongtie Nanheng Expressway Co., Ltd., No.3 Jingchun Road, Liujing Industrial Park, Nanning City, Guangxi Zhuang Autonomous Region, 530313, People's Republic of China ~72: Aimin FAN;Anbin SHEN;Pan RAN;Shifeng ZHU;Wanbo ZHONG;Xing ZHENG;Yao WANG;Yunya PING~ 33:CN ~31:2024200629597 ~32:10/01/2024

2024/01830 ~ Complete ~54:HBB-MODULATING COMPOSITIONS AND METHODS ~71:FLAGSHIP PIONEERING INNOVATIONS VI, LLC, 55 Cambridge Parkway, Suite 800E, United States of America ~72: ABERNATHY, Daniel Gene;ALTSHULER, Robert Charles;APPONI, Luciano Henrique;BOTHMER, Anne Helen;CHEE, Daniel Raymond;CITORIK, Robert James;COTTA-RAMUSINO, Cecilia Giovanna Silvia;FU, Yanfang;HOLMES, Michael Christopher;KIM, Kyusik;KOTLAR, Randi Michelle;MCALLISTER, Gregory David;QUERBES, William;RAY, Ananya;ROQUET, Nathaniel;SALOMON, William Edward;SANCHEZ, Carlos;STEINBERG, Barrett Ethan;WANG, Zhan~ 33:US ~31:63/241,994 ~32:08/09/2021;33:US ~31:63/250,143 ~32:29/09/2021;33:US ~31:63/303,900 ~32:27/01/2022

2024/01837 ~ Complete ~54:DEVICE FOR CONVERSION OF WAVE ENERGY INTO ELECTRICAL ENERGY ~71:DRAGIC, Mile, 11 Makedonska, ZRENJANIN 23000, SERBIA, Russia Serbia ~72: DRAGIC, Mile~ 33:RS ~31:P-2021/1153 ~32:17/09/2021

2024/01843 ~ Complete ~54:A WIND TURBINE ~71:ORFANOS, Vasileios, 18 Karinari Str, Chalandri, Greece ~72: ORFANOS, Vasileios~ 33:GR ~31:20210100536 ~32:05/08/2021

2024/01831 ~ Complete ~54:TRACKING DEVICE FOR SOLAR PANELS ~71:IDEEMATEC DEUTSCHLAND GMBH, Neusling 9c, Germany ~72: HIMMETER, Tobias;KUFNER, Johann~ 33:EP ~31:21198057.8 ~32:21/09/2021

2024/01832 ~ Complete ~54:LEVELLER CALIBRATION DEVICE ~71:ARCELORMITTAL, 24-26, Boulevard d'Avranches, Luxembourg ~72: Florent SPONEM;Jean-Marc HEMMEN;Mounir AMOURAK;Olivier MADELAINE-DUPUICH;Pierre GAUJE~

2024/01836 ~ Complete ~54:PROPAGATING LOCKING SCRIPTS ~71:nChain Licensing AG, Grafenauweg 6, ZUG 6300, SWITZERLAND, Switzerland ~72: COUGHLAN, Steven Patrick;PETTIT, Michaela~ 33:GB ~31:2113977.9 ~32:30/09/2021

2024/01839 ~ Complete ~54:RISK PROBABILITY ASSESSMENT FOR CARGO SHIPMENT OPERATIONS AND METHODS OF USE THEREOF ~71:REDKIK OY, Länsikatu 15, Joensuu, 80110, Finland ~72: CHRIS KALINSKI~ 33:US ~31:63/185,593 ~32:07/05/2021

2024/01823 ~ Provisional ~54:DUTY CYCLE CONTROLLER AND CIRCUIT FOR SWITCHING DIRECT CURRENT FOR USE WITH ALTERNATING CURRENT SWITCHES ~71:Neill Human, 15 Lobelia Street, South Africa ~72: Neill Human~

2024/01827 ~ Complete ~54:SYSTEM FOR ESTIMATING FOREST CARBON STORAGE ON BASIS OF OPTIMAL FEATURE VALUE ~71:Research Institute of Forest Resource Information Techniques, Chinese Academy of Forestry, No.1, Dongxiaofu, Qinglongqiao Street, Xiangshan Road, Haidian District, Beijing, 100091, People's Republic of China ~72: HE, Chenrui;LI, Xiaoyao;PANG, Lifeng;TAN, Bingxiang~

2024/01834 ~ Complete ~54:WORD MEMORY BOARD FOR ENGLISH TEACHING WITH SHIELDING STRUCTURE ~71:HEBEI CHEMICAL AND PHARMACEUTICAL COLLEGE, No. 88 Fangxing Road, Yuhua District, Shijiazhuang, Hebei, 050026, People's Republic of China ~72: LI, Yinjuan~

2024/01841 ~ Complete ~54:PYRIDO RING COMPOUND, PREPARATION METHOD THEREFOR, INTERMEDIATE, COMPOSITION, AND APPLICATION ~71:YIYOU BIOTECH (SHANGHAI) CO., LTD., Building 10, 860 Xinyang Highway, Lin-gang Special Area of China (Shanghai) Pilot Free Trade Zone Fengxian District, Shanghai, 201413, People's Republic of China ~72: JINLEI BIAN;JUBO WANG;PEI SHEN;PENGFEI XU;TIAN JING;XI XU;ZHIXIA QIU;ZHIYU LI~

2024/01828 ~ Complete ~54:LARGE INDUCTION ELECTRIC FURNACE ~71:Zhuzhou Torch Industrial Furnace Co., Ltd., No. 2, North Renmin Road, Shifeng District, Zhuzhou City, Hunan Province, 412000, People's Republic of China ~72: DENG Feifei;;LI Yong;LIU Enqing;SUN Yangchun;TANG Wenyuan~ 33:CN ~31:2023117463936 ~32:19/12/2023

2024/02102 ~ Provisional ~54:WILSON NOVEL 4X4 SYSTEM ~71:Vernon Campion Wilson, 10 Bridge street, South Africa ~72: Vernon Campion Wilson~

2024/01822 ~ Provisional ~54:END-TO-END CLAIM QUANTIFICATION AND FINALISATION ~71:GROUP MANAGEMENT TECHNOLOGY LIMITED, 148 Mitcham Road, United Kingdom ~72: EDWARDS, Wynne Lewis~

2024/01835 ~ Complete ~54:DETERMINING VIRTUAL AUDIO SOURCE POSITIONS ~71:Koninklijke Philips N.V., High Tech Campus 52, EINDHOVEN 5656 AG, THE NETHERLANDS, Netherlands ~72: KOPPENS, Jeroen Gerardus Henricus~ 33:EP ~31:21189872.1 ~32:05/08/2021

2024/01838 ~ Complete ~54:METHOD OF PRODUCING PROTEIN ISOLATE FROM SUNFLOWER MEAL ~71:TARSHYN&CO LIMITED, 6th Floor 60 Gracechurch Street, EC3V 0HR, United Kingdom ~72: TARSHYN, Stanislav Ivanovych;VORONTSOV, Oleksii Ivanovych~ 33:UA ~31:a 2021 04736 ~32:19/08/2021

2024/01842 ~ Complete ~54:REMOVAL OF VIRUSES FROM WATER BY FILTRATION ~71:INSTRACTION GMBH, Carl-Friedrich-Gauß-Ring 5, Germany ~72: LUNGFIEL, Kristian;MEYER, Christian;WELTER, Martin~ 33:ZA ~31:102021120424.0 ~32:05/08/2021

2024/02101 ~ Provisional ~54:WILSON CYCLE FOUR STROKE INTERNAL COMBUSTION ENGINE ~71:Vernon Campion Wilson, 10 Bridge street, South Africa ~72: Vernon Campion Wilson~

2024/01825 ~ Complete ~54:A LAMP PRIMER SET FOR SALMONELLA AND A METHOD FOR DETECTING SALMONELLA IN FRESH MILK ~71:Shihezi University, No.221, Shibe Fourth Road, Shihezi City, Xinjiang Uygur Autonomous Region, 832003, People's Republic of China ~72: Baixue He;Chao Shi;Hui Zhang;Jia Guo;Jing



Zhao;Liangbo Liu;Mingqing Wei;Tingting Lyu;Wei Zhang;Xia Zhou;Xingmei Deng;Ying Ding;Zhen Wang;Zhihua Sun~ 33:CN ~31:202410117116.7 ~32:26/01/2024

2024/01821 ~ Provisional ~54:GATE BOGIE ~71:Armando Giuseppe SPAGNOLO;, 12 Lorong Derumun, Bukit Damansara, Malaysia;Ezio Domenico SPAGNOLO, 422 Louis Botha Avenue, Highlands North, South Africa ~72: Armando Giuseppe SPAGNOLO;Ezio Domenico SPAGNOLO~

2024/01824 ~ Provisional ~54:CABLE AND PIPE PROTECTIVE WRAP ~71:DIRK STEENKAMP, 72 Service Road, Rietfontein, South Africa ~72: DIRK STEENKAMP~

2024/01907 ~ Provisional ~54:BRA CENTERPIECE ~71:Magdalena Henrietta Elizabetha Pieters, 145 Loskop Street, South Africa ~72: Magdalena Henrietta Elizabetha Pieters~ 33:ZA ~31:A41C ~32:03/03/2024

2024/01829 ~ Complete ~54:INTELLIGENT TEMPERATURE CONTROL ADHESIVE SOLIDIFYING SYSTEM FOR FRONT WINDSHIELD GLASS OF RAILWAY LOCOMOTIVE AND OPERATING METHOD THEREFOR ~71:CHINA RAILWAY NO. 3 ENGINEERING GROUP CO., LTD., 269, Yingze Street, Yingze District, Taiyuan, People's Republic of China;CHINA RAILWAY NO. 3 ENGINEERING GROUP CO., LTD. THE TRANSPORTATION ENGINEERING BRANCH COMPANY, 269, Yingze Street, Yingze District, Taiyuan, People's Republic of China ~72: CUI, Longlong;DONG, Hao;FENG, Ye;GAO, Yunfei;GUAN, Long;MAO, Mingjian;SHEN, Yanlong;WANG, Fuliang;WANG, Hongqiang;WANG, Pengpeng;WANG, Xiaosong;WANG, Yuan;XUE, Fu;ZHANG, Gang;ZHANG, Jinzhong;ZHANG, Peiqi;ZHAO, Zhilei;ZHU, Xiaodong;ZONG, Hanqing~

2024/01833 ~ Complete ~54:PROCESS FOR MANUFACTURING A STEEL STRIP FOR ELECTRICAL APPLICATIONS AND ASSOCIATED APPARATUS ~71:ARCELORMITTAL, 24-26, Boulevard d'Avranches, Luxembourg ~72: Charles HANQUET;Jacques HERNANDEZ;Vincent RUWET;Yves CHARBONNEL~ 33:IB ~31:PCT/IB2021/059204 ~32:07/10/2021

2024/01840 ~ Complete ~54:PERSONALIZED MODULATION THERAPY FOR CANCER ~71:FAETH THERAPEUTICS, INC., 701 Tillery Street, #12 #1010, Austin, Texas, 78702, United States of America ~72: OLIVER D.K MADDOCKS;PETROS TYRAKIS;TODD YOUNG~ 33:US ~31:63/234,507 ~32:18/08/2021;33:US ~31:63/234,517 ~32:18/08/2021;33:US ~31:63/280,792 ~32:18/11/2021

2024/01844 ~ Complete ~54:GLOVE, RIGID GUARD STRUCTURE FOR A GLOVE AND A METHOD OF MANUFACTURING A GLOVE ~71:GLOVE IP (PTY) LTD, 4 East Park, Central Park on Park Lane, South Africa ~72: QUINLAN, Stephen John~ 33:ZA ~31:2021/05661 ~32:05/08/2021

- APPLIED ON 2024/03/05 -

2024/01881 ~ Complete ~54:MOVABLE REFRIGERATION HOUSE PROTECTION DEVICE ~71:Suzhou Santuo Cold Chain Technology Co., Ltd, Room 808, Building11, University Science Park, No.20 Jianxiong Road, Taicang, Suzhou, People's Republic of China ~72: Du; Haibing;Du; Ruiqiu~

2024/01860 ~ Complete ~54:PREPARATION METHOD OF ORGANIC FERTILIZER FOR IMPROVING SOIL NUTRIENTS AND ENRICHING SOIL MICROORGANISMS ~71:SHANDONG INSTITUTE OF POMOLOGY, NO. 66, LONGTAN ROAD, People's Republic of China ~72: CHANG, Yuansheng;HE, Ping;HE, Xiaowen;LI, Linguang;WANG, Haibo;WANG, Sen;ZHENG, Wenyan~

2024/01879 ~ Provisional ~54:POTJIE FOUNDATION SPICE INFUSER/STRAINER ~71:LEONARD PETERSEN FAMILY TRUST I/T132/2004, No45-30th Ave Elsies-River, South Africa;VAN ALTENA FAMILY TRUST I/T3027/2005, No24 Romney street Delehay Bellville, South Africa ~72: ANTHONE GERHARDES VAN ALTENA;LEONARD PETERSEN~

2024/01857 ~ Complete ~54:HEALTH MANAGEMENT SYSTEM BASED ON QUANTUM COMMUNICATION  
~71:GUIZHOU YOUPIN SLEEP HEALTH INDUSTRY CO., LTD, 4/F, No. 17, Smart Industrial Park, Bijiang  
District, Tongren City, People's Republic of China ~72: LIN, Yongming;LIU, Enping;LIU, Sujun;WANG,  
Shengxiang~

2024/01858 ~ Complete ~54:HEALTH DATA MANAGEMENT SYSTEM BASED ON ARTIFICIAL INTELLIGENCE  
CHIP ~71:GUIZHOU YOUPIN SLEEP HEALTH INDUSTRY CO., LTD, 4/F, No. 17, Smart Industrial Park, Bijiang  
District, Tongren City, People's Republic of China ~72: LIN, Yongming;LIU, Enping;LIU, Sujun;WANG,  
Shengxiang~

2024/01861 ~ Complete ~54:SEED BOOT ~71:PRECISION PLANTING LLC, 23207 Townline Road, Tremont,  
United States of America ~72: HODEL, Jeremy;WILDERMUTH, Paul~ 33:US ~31:63/262,415 ~32:12/10/2021

2024/01864 ~ Complete ~54:CONTACTLESS RING-SHAPED SMART CARD ~71:VEGA PAY INFORMATION  
TECHNOLOGY NETWORK SERVICES LLC, Owned by Fawzia Abdul Razzaq Muhammad Salih Al Kadhim - Al  
Sufouh 2nd B, Office No. 2, Dubai, AE, United Arab Emirates ~72: GAZIN, Aleksei Vladimirovich;TIMOFEEVA,  
Elena Aleksandrovna~ 33:RU ~31:2021117422 ~32:16/06/2021

2024/01865 ~ Complete ~54:AUTOMATIC MATERIAL PREPARATION SYSTEM ~71:Anhui Ruilin Precision  
Technology Co.,Ltd, No.008 Hewan Road Yuexi Economic Development Zone, Anqing, Anhui, 246600, People's  
Republic of China ~72: CHU Yafei;JIANG Aimin~ 33:CN ~31:2022109890732 ~32:17/08/2022

2024/01867 ~ Complete ~54:ANTI-HLA-G ANTIBODIES ~71:UCB BIOPHARMA SRL, Allée de la Recherche, 60,  
B-1070, Brussels, Belgium ~72: ANN LOUISE WHITE;CARL BRENDAN DOYLE;CAROLINE BERTEAU;CLARE  
THOMPSON;DAVID PAUL HUMPHREYS;GAELLE LE FRIEC;KERRY LOUISE TYSON;NEESHA DEDI;RUTH  
MCELHONE;THOMAS COLLEY;VICTORIA O'DOWD~ 33:GB ~31:2111905.2 ~32:19/08/2021

2024/01870 ~ Complete ~54:A MEDIA HANDLING SYSTEM AND RELATED METHOD ~71:GLOBAL MET TECH  
PTY LTD, 4 Blackburn Drive, Port Kennedy, Western Australia, 6172, Australia ~72: BEN AMOS-REED;GLYN  
JONES;GRAEME DEAN;SIMON BAILEY~ 33:AU ~31:2021902816 ~32:30/08/2021

2024/01877 ~ Complete ~54:ENDOSTATIN PEPTIDES FOR THE TREATMENT OF TUMORS, FIBROSIS AND  
ACUTE LUNG INJURY ~71:MUSC Foundation for Research Development, 135 Cannon Street, Suite 101L,  
CHARLESTON 29425, SC, USA, United States of America ~72: FEGHALI-BOSTWICK, Carol~ 33:US  
~31:63/241,274 ~32:07/09/2021

2024/01851 ~ Complete ~54:A WATER-SOLUBLE HELIUM RESOURCE SAMPLING DEVICE AND SAMPLING  
METHOD ~71:The Fourth Geological Exploration Institute of Qinghai Province(Key Laboratory of Shale Gas  
Resources of Qinghai Province), No.24, Shengli Road, Chengxi District, Xining City, Qinghai Province, People's  
Republic of China ~72: Cai Tingjun;Chao Haide;Chen Jianzhou;Gong Zhiyuan;Li Jiqing;Li Qing;Song  
Weigang;Wang Fan;Wang Qiwei;Xie Jing;Xu Yongfeng~ 33:CN ~31:2024101823071 ~32:19/02/2024

2024/01863 ~ Complete ~54:COMMON SPATIAL FILTER INDICATION FOR CORESETS IN MULTI-  
TRANSMISSION RECEPTION POINT SYSTEMS ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-  
164 83, Sweden ~72: GAO, Shiwei;MURUGANATHAN, Siva;NILSSON, Andreas~ 33:US ~31:63/238,282  
~32:30/08/2021

2024/01869 ~ Complete ~54:STATION FOR THE CONVEYANCE AND MEASUREMENT OF HORTICULTURAL  
PRODUCTS ~71:UNITEC S.P.A., Via Provinciale Cotignola, 20/9, 48022, Lugo, Italy ~72: LUCA BENEDETTI~  
33:IT ~31:102021000021629 ~32:10/08/2021

2024/01906 ~ Provisional ~54:FREE FALL RAILWAY WITH CARRIAGE ~71:HILTON BRIAN THOMAS, 309 THORA COURT, KITE STR, HORISON, South Africa ~72: HILTON BRIAN THOMAS~

2024/01874 ~ Complete ~54:SUBSTRATE, LIQUID ACCOMMODATION CONTAINER, PRINTING SYSTEM, AND USE OF SUBSTRATE OR LIQUID ACCOMMODATION CONTAINER ~71:Seiko Epson Corporation, 1-6, Shinjuku 4-chome, SHINJUKU-KU 1608801, TOKYO, JAPAN, Japan ~72: KOSUGI, Yasuhiko;NAKANO, Shuichi;SATO, Jun~ 33:JP ~31:2021-214129 ~32:28/12/2021;33:JP ~31:2021-214139 ~32:28/12/2021

2024/01853 ~ Complete ~54:AN IMAGE RECOGNITION AND DETECTION SYSTEM ~71:Shaanxi Institute of International Trade & Commerce, No. 35, TongYi West Road, Fengxi New Town, Xixian New District, Xi'an City, Shaanxi Province, 712046, People's Republic of China ~72: BAI, Junhua;LIU, Yanrong;MA, Wenping;SHANG, Ying;WANG, Lijun;WANG, Xijuan~

2024/01855 ~ Complete ~54:PREPARATION METHOD AND APPLICATION OF MICROALGAE-CONTAINING BIOFERTILIZER ~71:GANSU KAIYUAN BIOTECHNOLOGY DEVELOPMENT CENTER CO., LTD, Inside Hexi University, No. 846 Beihuan Road, Ganzhou District, Zhangye City, People's Republic of China;GOLDEN SUNFLOWER SEED INDUSTRY CO., LTD, No. 5 Nanhuan Road, Ganzhou District, Zhangye City, People's Republic of China;HEXI UNIVERSITY, No. 87 Beihuan Road, Ganzhou District, Zhangye City, People's Republic of China ~72: CHEN, Ye;LIU, Haiyan;LUO, Guanghong;WANG, Danxia;YANG, Shenghui;ZHAN, Wen~

2024/01862 ~ Complete ~54:WEDGE ~71:PRECISION PLANTING LLC, 23207 Townline Road, Tremont, United States of America ~72: HODEL, Jeremy;WILDERMUTH, Paul~ 33:US ~31:63/262,417 ~32:12/10/2021

2024/01866 ~ Complete ~54:PARG INHIBITORY COMPOUNDS ~71:FORX THERAPEUTICS AG, Lichtstrasse 35, 4056 Basel, Switzerland ~72: ALENA FREUDENMANN;ANDREAS GOUTOPOULOS;JIN TIAN;LUCA IACOVINO;OLIVIER QUEROLLE;SOTIRIOS SOTIRIOU;ULRICH LUECKING~ 33:US ~31:63/251,916 ~32:04/10/2021;33:EP ~31:21204879.7 ~32:26/10/2021;33:EP ~31:21217026.0 ~32:22/12/2021;33:US ~31:63/321,955 ~32:21/03/2022;33:US ~31:63/390,855 ~32:20/07/2022

2024/01868 ~ Complete ~54:COMPOUNDS TARGETING MUTANT OF P53 ~71:JACOBIO PHARMACEUTICALS CO., LTD., Building 8, No.105 Jinghai 3rd Road, Business Development Area, Tongzhou District, Beijing, 100176, People's Republic of China ~72: AMIN LI;CHAOJIE DANG;QIAN ZHENG;SUJING LI;WEI LONG;XINRUI FAN;YANPING WANG~ 33:CN ~31:PCT/CN2021/111797 ~32:10/08/2021;33:CN ~31:PCT/CN2021/125725 ~32:22/10/2021;33:CN ~31:PCT/CN2021/132409 ~32:23/11/2021;33:CN ~31:PCT/CN2022/073977 ~32:26/01/2022;33:CN ~31:PCT/CN2022/097840 ~32:09/06/2022

2024/01876 ~ Complete ~54:FORMULATIONS OF RADIPRODIL ~71:GRIN Therapeutics, Inc., 101 Main St. Ste 1210, CAMBRIDGE 02142, MA, USA, United States of America ~72: GENIN, Marie;MUGLIA, Pierandrea~ 33:US ~31:63/230,331 ~32:06/08/2021

2024/01847 ~ Provisional ~54:A DIRECTIONAL INDICATOR DEVICE ~71:SMITH, Frederick Willem Coenraad, Plaas Rietvallei, DELMAS 2210, Mpumalanga, SOUTH AFRICA, South Africa ~72: SMITH, Frederick Willem Coenraad~

2024/01849 ~ Provisional ~54:A GASIFIER STOVE ~71:HADLOW, William Albert, 15 Kronendal Street, Dalsig, South Africa ~72: HADLOW, William Albert~

2024/01908 ~ Provisional ~54:ISB APP ~71:Amogelang, Stand nob64, South Africa ~72: Amogelang~ 33:ZA ~31:02 ~32:04/03/2024



2024/01846 ~ Provisional ~54:SG SOLAR PHONE AND DEVICES ~71:MR THABO MAY, 4585 Santho, South Africa ~72: MR THABO MAY~ 33:ZA ~31:1 ~32:27/02/2024

2024/01905 ~ Provisional ~54:STEAM ENGINES AND ELEPHANTS TO PULL CARRIAGES ~71:HILTON BRIAN THOMAS, 309 THORA COURT, KITE STR, HORISON, South Africa ~72: HILTON BRIAN THOMAS~

2024/01850 ~ Provisional ~54:A MATTRESS ~71:COX, Joshua Martin, 2 Spinnaker Avenue, Lakeside, South Africa ~72: COX, Joshua Martin~

2024/01873 ~ Complete ~54:LORA COMMUNICATION-BASED DISTRIBUTED VARIABLE DAMPING COMPOSITE VIBRATION REDUCTION SYSTEM AND VIBRATION REDUCTION METHOD ~71:China Construction Industrial & Energy Engineering Group Co.,Ltd., No. 6, Wenlan Road, Qixia District, Nanjing, Jiangsu, 210046, People's Republic of China ~72: Changsha LIU;Chaoming ZHANG;Jie LIU;Junsheng QIN;Qing HUANG;Qingjiang XU;Rongrong BAI;Xiangchao WANG;Xiaocheng FEI;Xuanyi CHEN;Yunhua ZHANG;Zhihong SONG~ 33:CN ~31:202210776520.6 ~32:04/07/2022

2024/01852 ~ Complete ~54:PROCESSING METHOD OF YELLOW TEA ~71:Tea Research Institute of Chinese Academy of Agricultural Sciences, No. 9 Meiling South Road, Hangzhou, Zhejiang Province, People's Republic of China ~72: Gensheng CHEN;Heyuan JIANG;Junfeng YIN;Weiwei WANG~ 33:CN ~31:2024101099588 ~32:26/01/2024

2024/01871 ~ Complete ~54:METHODS FOR DETECTION OF MEMBRANE BOUND GLYPICAN-3 ~71:ADICET THERAPEUTICS, INC., 1000 Bridge Pkwy, Redwood City, California, 94065, United States of America ~72: ARUN BHAT;ELIZABETH MAOURA PEREZ;ERIKA L MEADDOUGH;HUI SHAO;JACQUELINE KENNEDY WILDE;JONATHAN TA SHIN WONG;KEVIN NISHIMOTO;MATTHEW IAN HOOPES;MUSTAFA TURKOZ;ORI MALLER;SANDRA M HAYES~ 33:US ~31:63/235,093 ~32:19/08/2021

2024/01872 ~ Complete ~54:UTILIZATION OF MICRO-RNA FOR DOWNREGULATION OF CYTOTOXIC TRANSGENE EXPRESSION BY MODIFIED VACCINIA VIRUS ANKARA (MVA) ~71:BAVARIAN NORDIC A/S, Philip Heymans Alle 3, 2900, Hellerup, Denmark ~72: JÜRGEN HAUSMANN;MARC SCHWENEKER;MARKUS KALLA;MATTHIAS HABJAN~ 33:EP ~31:21194940.9 ~32:03/09/2021

2024/01848 ~ Provisional ~54:FALL ARREST SOLUTION ~71:SASOL SOUTH AFRICA LIMITED, 50 KATHERINE STREET SANDTON, South Africa ~72: LOMBARD, Jacques;REDELINGHUYS, Anton~

2024/01856 ~ Complete ~54:INTEGRATED RAMAN SPECTROMETER CHIP BASED ON OPTICAL WAVEGUIDE ~71:ZHEJIANG UNIVERSITY OF SCIENCE AND TECHNOLOGY, 318 Liuhe Road, Xihu District, Hangzhou City, People's Republic of China ~72: MA, Xiao~

2024/01909 ~ Provisional ~54:RAPID FOUNDATION ~71:EBEN BOTHMA, Plot 456, Maggiesdal, R40, Barberton Road, South Africa ~72: EBEN BOTHMA~

2024/01854 ~ Complete ~54:NON-RETURN VALVE ~71:COMEC INDUSTRIES (PTY) LTD, 43 10th Street, Voorspoed, South Africa ~72: MORETTI, Gian Mauro~ 33:ZA ~31:2023/05184 ~32:11/05/2023

2024/01859 ~ Complete ~54:STORAGE STERILIZER FOR NURSING INSTRUMENTS ~71:Qingdao Central Hospital, University of Health and Rehabilitation Sciences (Qingdao Central Hospital) , No. 127, Siliu South Road, Shibei District, Qingdao, Shandong Province, 266044, People's Republic of China ~72: Wang Xin;Xu Jie~

2024/01875 ~ Complete ~54:DEVICE, SUBSTRATE, LIQUID ACCOMMODATION CONTAINER, PRINTING SYSTEM, AND USAGE OF SUBSTRATE OR LIQUID ACCOMMODATION CONTAINER ~71:Seiko Epson

Corporation, 1-6, Shinjuku 4-chome, SHINJUKU-KU 1608801, TOKYO, JAPAN, Japan ~72: KOSUGI, Yasuhiko;NAKANO, Shuichi;SATO, Jun~ 33:JP ~31:2021-214129 ~32:28/12/2021;33:JP ~31:2021-214139 ~32:28/12/2021

2024/01878 ~ Complete ~54:HIGH-STRENGTH ROAD FOR WATER RESOURCE REGULATION SYSTEM IN RESPONSE TO CLIMATE CHANGE ~71:CHEN, Jui-Wen, No. 23, Lane 123, Junying Street, Shulin District, Taiwan (R.O.C) ~72: CHEN, Jui-Wen~ 33:CN ~31:202111058587.8 ~32:10/09/2021

- APPLIED ON 2024/03/06 -

2024/01894 ~ Complete ~54:DRIVE MEMBER ASSEMBLY FOR A VIBRATORY SCREEN ~71:MIS.CARBONART PTY LTD (A SUBSIDIARY OF MINERAL RESOURCES LIMITED), 20 Walters Drive, Osborne Park, Australia ~72: WECKEND, Carsten~ 33:AU ~31:2021902578 ~32:18/08/2021

2024/01904 ~ Complete ~54:INCREASING GROWTH OF A CO2 FIXING THERMOPHILE BACTERIUM ~71:Danmarks Tekniske Universitet, Anker Engelunds Vej 101, KONGENS LYNGBY 2800, DENMARK, Denmark ~72: AXELSEN, Amalie Melton;BRØNDUM, Sebastian Sven;JENSEN, Torbjørn Ølshøj;NIELSEN, Alex Toftgaard;REDL, Stephanie~ 33:EP ~31:21195239.5 ~32:07/09/2021

2024/01885 ~ Complete ~54:STRESS-INDUCIBLE PROMOTER OF COTTON, PREPARATION METHOD AND USES THEREOF ~71:Huazhong Agricultural University, College of Animal Science & Technology of Huazhong Agricultural University, No.1, Shizishan Street, Hongshan District, Wuhan, 430070, People's Republic of China ~72: Bing ZHANG;Linjie XIA;Longfu ZHU;Xianlong ZHANG;Xiyan YANG~ 33:CN ~31:2023107660340 ~32:27/06/2023

2024/01895 ~ Complete ~54:PROTECTIVE PLATE FOR A VIBRATORY SCREEN ~71:MIS.CARBONART PTY LTD (A SUBSIDIARY OF MINERAL RESOURCES LIMITED), 20 Walters Drive, Osborne Park, Australia ~72: BARNES, Philip~ 33:AU ~31:2021902577 ~32:18/08/2021

2024/01898 ~ Complete ~54:MACROENCAPSULATION DEVICES ~71:VERTEX PHARMACEUTICALS INCORPORATED, 50 Northern Avenue, Boston, Massachusetts, 02210, United States of America ~72: CHRISTOPHER THANOS;JOHN MILLS;MATTHEW WATSON;NOAH NGUYEN;RAHUL R RAJENDRAN~ 33:US ~31:63/233,667 ~32:16/08/2021

2024/01899 ~ Complete ~54:HOOKAH DEVICE AND IMPROVED CONSUMABLE POD ~71:ADALSIA LIMITED, Arch. Makariou III, 195 Neocleous House 3030, Limassol, Cyprus ~72: JOHN MARK VERNON VERNON;JOHN MICHAEL ELAM;LANCE GORDON HUSSEY;RAVI KUMAR SAWHNEY~ 33:US ~31:63/242,735 ~32:10/09/2021;33:US ~31:63/242,757 ~32:10/09/2021;33:US ~31:63/242,764 ~32:10/09/2021;33:US ~31:63/242,775 ~32:10/09/2021;33:US ~31:63/242,787 ~32:10/09/2021

2024/01897 ~ Complete ~54:SOS1 INHIBITOR AND USE THEREOF ~71:CYRUS THERAPEUTICS INC., 5th floor, 4 Jeongui-ro 8-gil, Songpa-gu, Seoul, 05836, Republic of Korea;KANAPH THERAPEUTICS INC., 5th floor, 3, Itaewon-ro 55ga-gil, Yongsan-gu, Seoul, 04348, Republic of Korea ~72: DOHYUN PARK;DONG HYUK KI;DONGGEON KIM;EUN-JUNG KIM;HA NA YU;JI EUN KIM;JIHYUN YU;JOONWOO NAM;KYEONG JIN YOON;SANG KYUN LIM;WOOSEOK HAN;YOUNG SOOK SHIN (DECEASED)~ 33:KR ~31:10-2021-0108316 ~32:17/08/2021

2024/01883 ~ Complete ~54:SIMULATED PLUSH ANIMAL TOY AND PREPARATION METHOD THEREOF ~71:Beijing Fuhua Hongyuan Technology Co., Ltd, No. 20, Yanhe Section, Yanhe Village, Liqiao Town, Shunyi Dist., Beijing, People's Republic of China ~72: Huaibiao Zhai;Huaizun Zhai~ 33:CN ~31:2024101140239 ~32:27/01/2024

2024/01880 ~ Provisional ~54:ANTI-PHISHING PIN RECOGNITION ~71:DE SWART, Alexandra, Kees Broekmanstraat 118, Netherlands ~72: DE SWART, Alexandra~

2024/01901 ~ Complete ~54:MOBILE ELECTRONIC LOCK ~71:ABUS AUGUST BREMICKER SÖHNE KG, Altenhofer Weg 25 Wetter-Volmarstein, 58300, Germany ~72: CHRISTIAN JOHANNES JERGER;MARTIN BURK~ 33:DE ~31:10 2021 122 250.8 ~32:27/08/2021

2024/01884 ~ Complete ~54:SOIL BALL QUICK WRAPPING ELASTIC NET DEVICE FOR TREE TRANSPLANTING ~71:Zhejiang Institute of Subtropical Crops, 334 Xueshan Road, Ouhai District, Wenzhou, Zhejiang Province, 325005, People's Republic of China ~72: CHEN Qiuxia;JIAO Yulian;LI Xiaowen;LIU Yu;WANG Jinwang~

2024/01891 ~ Complete ~54:SYRINGE WITH MULTIFUNCTIONAL PLUNGER HANDLE ~71:SHAW, Thomas J., 5310 BUENA VISTA DR., FRISCO, TX 75034, USA, United States of America ~72: SHAW, Thomas J.~ 33:US ~31:17/403,385 ~32:16/08/2021

2024/01892 ~ Complete ~54:STRAIN FOR PRODUCING HIGH CONCENTRATION L-GLUTAMIC ACID AND METHOD FOR PRODUCING L-GLUTAMIC ACID USING THE SAME ~71:CJ CHEILJEDANG CORPORATION, 330, DONGHO-RO, JUNG-GU, SEOUL 04560, REP OF KOREA, Republic of Korea ~72: BONG, Hyun-Ju;HEO, Jung Ok;KWON, Nara;LEE, Ah Reum~ 33:KR ~31:10-2021-0125842 ~32:23/09/2021

2024/01882 ~ Complete ~54:METHOD AND SYSTEM FOR IDENTIFYING AND REGISTERING MARK POINTS OF SURGICAL NAVIGATION ROBOT AND DEVICE ~71:The Fourth Medical Center of Chinese People's Liberation Army General Hospital, 51 Fucheng Road, Haidian District, Beijing, 100048, People's Republic of China ~72: FAN, Rui;JIANG, Yu;LIU, Pengyun;WANG, Qianxin;WU, Taoguang;ZHANG, Dong;ZHANG, Gongzi;ZHANG, Lihai;ZHANG, Shuwei~ 33:CN ~31:2023118109262 ~32:26/12/2023

2024/01886 ~ Complete ~54:SELF-CLEANING PHOTOVOLTAIC MODULE BASED ON PHOTOCATALYTIC COATING ~71:Henan University of Urban Construction, Longxiang Avenue Xincheng District, Pingdingshan City, Henan Province, People's Republic of China ~72: BAI Minghua;DANG Liyun;GENG Zihan;LI Shanying;LI Xinyu;LIU Silin;LIU Xiangyun;SU Qing;WEI Yifan;XU Kaidong;YANG Yilong~

2024/01888 ~ Complete ~54:MICROBIAL-BASED PROCESS FOR IMPROVED QUALITY PROTEIN CONCENTRATE ~71:PRAIRIE AQUATECH LLC, 705 32nd Avenue, Brookings, South Dakota, 57006, United States of America ~72: DENNIS HARSTAD;SERGIO F NATES~ 33:US ~31:63/035,797 ~32:07/06/2020;33:US ~31:63/036,274 ~32:08/06/2020;33:US ~31:63/039,694 ~32:16/06/2020;33:US ~31:63/052,745 ~32:16/07/2020;33:US ~31:17/093,557 ~32:09/11/2020

2024/01890 ~ Complete ~54:METHOD FOR PROCESSING PYROLYSIS OILS FROM PLASTICS AND/OR SOLID RECOVERED FUELS, LOADED WITH IMPURITIES ~71:IFP ENERGIES NOUVELLES, 1 et 4 avenue de Bois-Préau, France ~72: DE SOUSA DUARTE, Marisa;NGUYEN-HONG, Duc;WEISS, Wilfried~ 33:FR ~31:FR2111068 ~32:19/10/2021

2024/01893 ~ Complete ~54:ELECTRIC ENERGY TRANSMISSION SYSTEM FOR VEHICLE, AND CHARGING APPARATUS AND ELECTRIC VEHICLE ~71:CHANGCHUN JETTY AUTOMOTIVE TECHNOLOGY CO., LTD., No. 957, Shunda Road, High-tech Development Zone, Chaoyang District, People's Republic of China ~72: WANG, Chao~ 33:CN ~31:202111028873.X ~32:02/09/2021

2024/01900 ~ Complete ~54:MRNA VACCINES COMPRISING IL-4 AND/OR IL-13 RNA AND USES THEREOF ~71:NEOVACS, 3-5 impasse Reille, 75014, Paris, France ~72: BEATRICE DROUET;BERNARD

FANGET;FLORIAN GAUTHIER;OLIVIER DHELLIN;VINCENT SERRA~ 33:EP ~31:21306131.0  
~32:20/08/2021;33:US ~31:63/235,351 ~32:20/08/2021

2024/01903 ~ Complete ~54:SLUDGE TREATMENT APPARATUS AND EXCRETA TREATMENT APPARATUS INCLUDING SAME ~71:Samsung Electronics Co., Ltd., 129, Samsung-ro, Yeongtong-gu, SUWON-SI 16677, GYEONGGI-DO, REPUBLIC OF KOREA, Republic of Korea ~72: KIM, Ginam;KIM, Yongkwon;SHIN, Hyunsuk~ 33:KR ~31:10-2021-0152572 ~32:08/11/2021

2024/01896 ~ Complete ~54:IMPROVEMENTS IN VIBRATORY SCREENS ~71:MIS.CARBONART PTY LTD (A SUBSIDIARY OF MINERAL RESOURCES LIMITED), 20 Walters Drive, Osborne Park, Australia ~72: BARNES, Philip;DE HAAS, David;VINCAN, Alex;WECKEND, Carsten~ 33:AU ~31:2021902579 ~32:18/08/2021;33:AU ~31:2021902580 ~32:18/08/2021

2024/01887 ~ 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

2024/01889 ~ Complete ~54:CHARGING SOCKET, CHARGING SOCKET UPGRADING METHOD AND APPARATUS, DEVICE, AND STORAGE MEDIUM ~71:CHANGCHUN JETTY AUTOMOTIVE TECHNOLOGY CO., LTD., No. 957, Shunda Road, High-tech Development Zone, Chaoyang District, People's Republic of China ~72: WANG, Chao~ 33:CN ~31:202110985980.5 ~32:26/08/2021

2024/01902 ~ Complete ~54:METHODS FOR THE TREATMENT OF MIGRAINE AND RELATED HEADACHE SYMPTOMS USING TRICAPRYLIN ~71:CERECIN INC., 44 Cook Street, Suite 100-71, Denver, Colorado, 80206, United States of America ~72: JUDITH WALKER;SAMUEL T HENDERSON~ 33:US ~31:63/233,552 ~32:16/08/2021;33:US ~31:63/343,893 ~32:19/05/2022;33:US ~31:63/351,684 ~32:13/06/2022

- APPLIED ON 2024/03/07 -

2024/01919 ~ Complete ~54:METHOD AND DEVICE FOR CONSTRUCTING RAPE AUTOMATIC HYBRIDIZATION MICROSYSTEM ~71:Research Institute of Agricultural Science, Leshan City, No.1268, Changqing Road, Shizhong District, Leshan City, Sichuan Province, 614000, People's Republic of China ~72: Hong Lu;Juan Yang;Mingchao Xu;Xingfan Chen;Xudong Zou;Yanhui Wang;Zhi Zhang~

2024/01950 ~ Complete ~54:CHARGING SYSTEM FOR AN INDUSTRIAL ELECTRIC VEHICLE, METHOD OF CHARGING AN INDUSTRIAL ELECTRIC VEHICLE AND USE OF A CHARGING SYSTEM ~71:ABB Schweiz AG, Bruggstrasse 66, BADEN 5400, SWITZERLAND, Switzerland ~72: ASHNAGARAN, Mehrzad;BEUTLER, Nic~

2024/01933 ~ Complete ~54:ENERGY STORAGE CONVERTER, CONTROL METHOD AND DEVICE THEREFOR, AND READABLE STORAGE MEDIUM ~71:JINGTSING TECHNOLOGY LTD, Room 1003, 10th Floor, Building 1, Yard 5, Beihuang Muchang North Street, People's Republic of China ~72: GUAN, Eryong;JI, Ruiqiu~ 33:CN ~31:202111413225.6 ~32:25/11/2021

2024/01948 ~ Complete ~54:MILVEXIAN FOR PREVENTION AND TREATMENT OF THROMBOEMBOLIC DISORDERS ~71:Bristol-Myers Squibb Company, Route 206 & Province Line Road, PRINCETON 08543, NJ, USA, United States of America;Janssen Pharmaceutica NV, Turnhoutseweg 30, BEERSE 2340, BELGIUM, Belgium ~72: CHINTALA, Madhu;JONES-BURTON, Charlotte;LI, Danshi;LUETTGEN, Joseph M.;NESSEL, Christopher;PERERA, Liyanage Vidya;PETERS, Gary;SEIFFERT, Dietmar Alfred;STRONY, John~ 33:US ~31:63/245,522 ~32:17/09/2021;33:US ~31:63/278,582 ~32:12/11/2021

2024/01930 ~ Complete ~54:A LOW DEVIATION FLAT TRANSPOSITION WIRE FOR ULTRA-HIGH VOLTAGE AUXILIARY REACTOR ~71:ANHUI SUNWAY CABLE CO., LTD., No. 18 Gaoxin Avenue, Gaogou Industrial Park, Wuwei County, Wuhu City, Anhui Province, 238300, People's Republic of China ~72: Jingcheng Yu;Junyi Qian;Xiaojun Huang;Yinlin Xu;Yunsheng Ding~ 33:CN ~31:202311023303.0 ~32:15/08/2023

2024/01943 ~ Complete ~54:BUTADIENE NITRILE LATEX, LATEX COMPOSITION FOR DIP-MOLDING, AND DIP-MOLDED ARTICLE ~71:PUBLIC JOINT STOCK COMPANY "SIBUR HOLDING" (PJSC "SIBUR HOLDING"), Vostochnyj promyshlennyj rayon, kvartal 1, No. 6, stroenie 30 Tobolsk, Tyumenskaya oblast, 626150, Russian Federation ~72: LUDMILA ANDREEVNA KORYSTINA~ 33:RU ~31:2021128245 ~32:27/09/2021

2024/01952 ~ Complete ~54:COMPOSITIONS AND METHODS FOR TREATING BIOFILM DISORDERS AND INFECTION ~71:AHV INTERNATIONAL B.V., Schokkerweg 10, Netherlands ~72: DE BOER, Lex;KHOKHAR, Shaista Sheroze;SCHUTTEVAAR, Anne Myrthe;STREEFLAND, Gerrit Jan;WRONSKA, Anna Kristina~ 33:NL ~31:2029166 ~32:10/09/2021

2024/01925 ~ Complete ~54:BENDING RESISTANCE DETECTION DEVICE FOR PROCESSING ALLOY MATERIAL ~71:HENAN UNIVERSITY OF URBAN CONSTRUCTION, Longxiang Avenue, Xincheng District, Pingdingshan City, People's Republic of China ~72: Chaoyong WANG;Wei Li;Wenjie ZHU;Xingtao MA;Yarui WANG~

2024/01941 ~ Complete ~54:FUCAN AND MODIFIED FUCAN COMPOSITIONS FOR THE TREATMENT OF CONDITIONS RELATED TO CAPSULAR CONTRACTURE AND TO INHIBITING FIBROUS GROWTH AROUND OR ON TRANSPLANTS ~71:ARC MEDICAL INC., Unit 8, 3071 No. 5 Road, Richmond, British Columbia, V6X 2T4, Canada ~72: CHRISTOPHER MICHAEL KEVIN SPRINGATE;HESONG SUN;IAN MILLET~ 33:US ~31:63/235,316 ~32:20/08/2021;33:US ~31:63/354,322 ~32:22/06/2022

2024/01947 ~ Complete ~54:SOLID CLEANSING COMPOSITIONS AND METHODS FOR THE SAME ~71:Colgate-Palmolive Company, 300 Park Avenue, NEW YORK 10022, NY, USA, United States of America ~72: BHARDWAJ, Vinay;COHEN, Aaron;MORALES, Sara;ROMERO, Jesus Ivan~ 33:US ~31:63/243,848 ~32:14/09/2021

2024/01929 ~ Complete ~54:AZETIDINE AND PYRROLIDINE PARP1 INHIBITORS AND USES THEREOF ~71:XINTHERA, INC., c/o Gilead Sciences, Inc., 333 Lakeside Drive, Foster City, United States of America ~72: DONG, QING;HOFFMAN, ROBERT L.;KALDOR, STEPHEN W.;TRZOSS, LYNNIE;VA, PORINO JINJO~ 33:US ~31:63/251,469 ~32:01/10/2021;33:US ~31:63/339,597 ~32:09/05/2022;33:US ~31:63/402,835 ~32:31/08/2022

2024/01939 ~ Complete ~54:PROCESS FOR PREPARING A SPRAY DRIED DETERGENT PARTICLE ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: ABRAHAM CHACKO;GIRISH KUMAR;KUNAL SHANKAR PAWAR;NADEEM SHAIKH;SATYENDRA PRASAD SINGH;SHARAVAN KUMAR~ 33:EP ~31:21196805.2 ~32:15/09/2021

2024/01913 ~ Complete ~54:TREE RADIAL GROWTH MONITORING RING AND MEASURING METHOD THEREOF ~71:Zhejiang Institute of Subtropical Crops, 334 Xueshan Road, Ouhai District, Wenzhou, Zhejiang Province, 325005, People's Republic of China ~72: CHEN Qiuxia;JIAO Yulian;LI Xiaowen;LIU Yu;WANG Jinwang~

2024/01936 ~ Complete ~54:FLOOD FORECASTING METHOD BASED ON FLOOD SEASON STAGES ~71:ZHEJIANG UNIVERSITY OF WATER RESOURCES AND ELECTRIC POWER, 508 2nd Street, Qiantang District, Hangzhou, Zhejiang, 310018, People's Republic of China ~72: QIAN, Jinglin;QIAN, Yiqing;QIAN, Zhusheng;WU, Yunxin;XUAN, Weidong;YAN, Qibin~ 33:CN ~31:202310333035.6 ~32:30/03/2023



2024/01918 ~ Complete ~54:EXPERIMENTAL DEVICE AND EXPERIMENTAL METHOD FOR HIGH-CONCENTRATION SEDIMENT ROTARY JET ABRASION AND EROSION ~71:Shaanxi Provincial Dongzhuang Water Conservancy Engineering Co.,Ltd., Jianghe Building, 198 Xiqi Road, Xincheng District, Xi'an, Shaanxi, 713200, People's Republic of China;Xi'an University of Technology, NO.5 South Jinhua Road, Beilin District, Xi'an, Shaanxi, 710048, People's Republic of China ~72: CHEN Meng;GUO Pengcheng;LI Meng;SUN Longgang;SUN Shuaihui;WU Di;WU Pengbo;ZHOU Peng~ 33:CN ~31:202310219643.4 ~32:08/03/2023

2024/01911 ~ Provisional ~54:UNDERGROUND OVERHEAD SAFETY SHIELD ~71:TITAN MINING (PTY) LTD, Plot 67, Vlakplaas 20, Tarlton, KRUGERSDORP 1739, Gauteng, SOUTH AFRICA, South Africa ~72: LAWRENCE, Allen Preston;WHYTE, Shane Rodger~

2024/01921 ~ Complete ~54:SOFTWARE SYSTEM WITH ADJUSTABLE PARAMETERS ~71:HENAN ALPHA TECHNOLOGY CO., LTD, 5th Floor, Unit 2, Building 1, Innovation Park, Henan University Science and Technology Park (East Zone), No. 289 West Third Ring Road, Zhengzhou High tech Industrial Development Zone, People's Republic of China ~72: MINGMING DING;PENG PENG LI~ 33:CN ~31:2023102163159 ~32:08/03/2023

2024/01926 ~ Complete ~54:ALLOY STEEL MATERIAL HARDNESS DETECTION DEVICE ~71:HENAN UNIVERSITY OF URBAN CONSTRUCTION, Longxiang Avenue, Xincheng District, Pingdingshan City, People's Republic of China ~72: Chaoyong WANG;Wei LI;Wenjie ZHU;Xingtao MA;Xiuqin YANG~

2024/01932 ~ Complete ~54:VALVE ASSEMBLY ~71:PRECISION PLANTING LLC, 23207 Townline Road, Tremont, United States of America ~72: SCHWIND, Timothy;SLONEKER, Dillon;STUBER, Luke~ 33:US ~31:63/266,694 ~32:12/01/2022

2024/01917 ~ Complete ~54:APPARATUS AND METHOD FOR PREPARING FLEXIBLE INSERT SAMPLE THAT ACCURATELY CONTROL RANDOM CRACK OPENING ~71:Hainan University, No. 58, Renmin Avenue, Meilan District, Haikou City, Hainan Province, People's Republic of China ~72: Chao LI;Jie CUI;Kaijian CAI;Kuiling WANG;Youliang ZHANG~ 33:CN ~31:2023104451911 ~32:24/04/2023

2024/01922 ~ Complete ~54:CORONAVIRUS VACCINE FORMULATIONS ~71:Novavax, Inc., 21 Firstfield Road, GAITHERSBURG 20878 , MD, USA, United States of America ~72: MASSARE, Michael J.;SMITH, Gale;TIAN, Jing-Hui~ 33:US ~31:62/966,271 ~32:27/01/2020;33:US ~31:62/976,858 ~32:14/02/2020;33:US ~31:62/983,180 ~32:28/02/2020;33:US ~31:63/048,945 ~32:07/07/2020;33:US ~31:63/051,706 ~32:14/07/2020;33:US ~31:63/054,182 ~32:20/07/2020;33:US ~31:16/997,001 ~32:19/08/2020;33:US ~31:63/129,392 ~32:22/12/2020

2024/01949 ~ Complete ~54:LIVER-SPECIFIC EXPRESSION CASSETTES, VECTORS AND USES THEREOF FOR EXPRESSING THERAPEUTIC PROTEINS ~71:Generation Bio Co., 301 Binney Street, 4th Floor, CAMBRIDGE 02142, MA, USA, United States of America ~72: CAO, Jicong;KEENAN, Jessica Lynn;MAJUMDAR, Elizabeth;MONDS, Russell~ 33:US ~31:63/245,013 ~32:16/09/2021

2024/01916 ~ Complete ~54:PREPARATION METHOD AND APPLICATION OF SPINDLE-SHAPED IRON OXIDE NANO SINGLE CRYSTALS ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, People's Republic of China ~72: BAI Minghua;DANG Liyun;GENG Zihan;LI Shanying;LI Xinyu;LIU Silin;LIU Xiangyun;SU Qing;WEI Yifan;XU Kaidong;YANG Yilong~

2024/01923 ~ Complete ~54:A SYSTEM FOR EVALUATING A COPLANAR INTERDIGITATED SENSOR CAPACITANCE FOR 1-N-1 MULTILAYERED STRUCTURE ~71:Anwar Ulla Khan, Department of Electrical Engineering Technology, College of Applied Industrial Technology (CAIT), Jazan University, Jazan 45142, Saudi Arabia;Birendra Kumar, Mechanical Engineering Department, Motihari College of Engineering, Motihari, East

Champaran, Bihar-845401, India;Kanhaiya Kumar, Electrical & Electronics Engineering Department, Motihari College of Engineering, Motihari, East Champaran, Bihar-845401, India;Md Tabrez, Electrical & Electronics Engineering Department, Motihari College of Engineering, Motihari, East Champaran, Bihar-845401, India;Mosarrat Jahan, Electrical engineering department, Government Engineering College, Gopalganj, Bihar-841428, India ~72: Anwar Ulla Khan;Birendra Kumar;Kanhaiya Kumar;Md Tabrez;Mosarrat Jahan~

2024/01942 ~ Complete ~54:BUTADIENE NITRILE LATEX, LATEX COMPOSITION FOR DIP-MOLDING, AND DIP-MOLDED ARTICLE ~71:PUBLIC JOINT STOCK COMPANY "SIBUR HOLDING" (PJSC "SIBUR HOLDING"), Vostochnyj promyshlennyj rayon, kvartal 1, No. 6, stroenie 30 Tobolsk, Tyumenskaya oblast, 626150, Russian Federation ~72: LUDMILA ANDREEVNA KORYSTINA;SERGEJ VIKTOROVICH BAGRYASHOV~ 33:RU ~31:2021128244 ~32:27/09/2021

2024/01910 ~ Provisional ~54:REINFORCED POLYMER FASTENER AND RELATED METHOD OF MANUFACTURE ~71:NIEUWENHUYS, Kathleen, ERF 802, 28 Jay Street, RANT-EN-DAL, Krugersdorp 1751, Gauteng, SOUTH AFRICA, South Africa ~72: NIEUWENHUYS, Kathleen~

2024/01914 ~ Complete ~54:NOVEL WATER-SPRAYING SELF-CLEANING PHOTOVOLTAIC MODULE WITH HYDROPHOBIC COATING ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, People's Republic of China ~72: BAI Minghua;DANG Liyun;GENG Zihan;LI Shanying;LI Xinyu;LIU Silin;LIU Xiangyun;SU Qing;WEI Yifan;XU Kaidong;YANG Yilong~

2024/01927 ~ Complete ~54:DEVICE AND METHOD FOR ANALYZING LASER-INDUCED BREAKDOWN SPECTROSCOPY ~71:HENAN UNIVERSITY OF URBAN CONSTRUCTION, Longxiang Avenue, Xincheng District, Pingdingshan City, People's Republic of China ~72: LIU, Zhiqing;WANG, Chaoyong;WANG, Kai;WANG, Yarui;ZHU, wenjie~

2024/01931 ~ Complete ~54:SEED METER WITH SEED RETAINING STRUCTURE ~71:PRECISION PLANTING LLC, 23207 Townline Road, Tremont, United States of America ~72: FRANK, William;SCHWIND, Timothy;STUBER, Luke~ 33:US ~31:63/262,512 ~32:14/10/2021

2024/01940 ~ Complete ~54:HEAVY OLIGOMER COMPOSITIONS OF A SELECTIVE 1-HEXENE AND 1-OCTENE CATALYST ~71:CHEVRON PHILLIPS CHEMICAL COMPANY LP, 10001 Six Pines Drive, The Woodlands, Texas, 77380, United States of America ~72: ORSON L SYDORA~ 33:US ~31:63/241,121 ~32:07/09/2021

2024/01928 ~ Complete ~54:A MESOSCOPIC SCALE DETERMINATION METHOD AND EXPERIMENTAL DEVICE FOR VISUALISING SPONTANEOUS COMBUSTION OF THE LOOSE COAL BODY ~71:XI'AN UNIVERSITY OF SCIENCE AND TECHNOLOGY, No.58, Yanta Middle Road, Yanta District, Xi'an City, People's Republic of China ~72: Chen WANG;Chimin SHU;Gai HANG;Jiajia SONG;Jiaming CHANG;Jingyu ZHAO;Jun DENG;Xiaocheng YANG;Yanni ZHANG;Zhaolong CHI~ 33:CN ~31:2023114656000 ~32:07/11/2023

2024/01938 ~ Complete ~54:SOLUTION CIRCULATIONS IN A PROCESS FOR CALCINATION AND LEACHING OF A LITHIUM-CONTAINING MINERAL ~71:METSO FINLAND OY, Rauhalanpuisto 9 02230 Espoo, Finland ~72: MARIKA TIIHONEN;NIKO ISOMÄKI;TUOMAS HIRSI~

2024/01944 ~ Complete ~54:MAXIMIZING SYNGAS CARBON UTILIZATION AND CONVERSION TO BIOFUEL ~71:ENERKEM INC., 1130 Sherbrooke Street West, Montreal, Québec, H3A 2M8, Canada ~72: JEAN-PIERRE CRETE;JÉRÉMIE GAGNON;LOUIS DENOMME;MAXIME BANVILLE;MAXIME FOUCAULT;MICHEL CHORNET;XENIYA SAVELYEVA~ 33:US ~31:63/237,692 ~32:27/08/2021

2024/01924 ~ Complete ~54:METHOD OF DETERMINING A SOUND ABSORPTION COEFFICIENT OF A TARGET MATERIAL AND SYSTEM THEREFOR ~71:Tshwane University of Technology, Arcadia Campus, 175 Mandela Drive, Arcadia, PRETORIA 0083, Gauteng Province, SOUTH AFRICA, South Africa ~72: DESAI, Dawood Ahmed;DUNNE, Regan Kyle~ 33:ZA ~31:2023/03332 ~32:06/03/2023

2024/01934 ~ Complete ~54:BIDIRECTIONAL ENERGY STORAGE CONVERTER AND ENERGY STORAGE SYSTEM ~71:JINGTSING TECHNOLOGY LTD, Room 1003, 10th Floor, Building 1, Yard 5, Beihuang Muchang North Street, People's Republic of China ~72: GUAN, Eryong;JI, Ruiqiu;WANG, Shien~ 33:CN ~31:202111675730.8 ~32:31/12/2021;33:CN ~31:202123421737.5 ~32:31/12/2021

2024/01953 ~ Complete ~54:ENGINEERED CASX REPRESSOR SYSTEMS ~71:SCRIBE THERAPEUTICS INC., 1150 Marina Village Parkway, United States of America ~72: CHARLES, Emeric Jean Marius;DENNY, Sarah;FERNANDES, Jason;HIGGINS, Sean;OAKES, Benjamin;WHITE, Ross~ 33:US ~31:63/246,543 ~32:21/09/2021;33:US ~31:63/321,517 ~32:18/03/2022

2024/01912 ~ Complete ~54:TRADITIONAL CHINESE MEDICINE COMPOSITION FOR TREATING HYPEROSTOSIS AND RHEUMATIC ARTHRITIS AND APPLICATION ~71:WU, Zongze, ROOM 401, UNIT 3, BUILDING 6, JINGDU GARDEN, ANYANG STREET, People's Republic of China ~72: WU, Zongze~

2024/01945 ~ Complete ~54:CONDITIONING SHAMPOO COMPOSITION ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: ARASH MOHAJER MOGHADAM;AXEL HERVE EKANI NKODO;BETHANY REBECCA LOUISE HAMER~ 33:EP ~31:21198036.2 ~32:21/09/2021

2024/01946 ~ Complete ~54:BOVINE EPHEMERAL FEVER AND LUMPY SKIN DISEASE ANTIGENIC CONSTRUCTS ~71:UNIVERSITY OF CAPE TOWN, Bremner Building, Lovers Walk, Rondebosch, Cape Town, 7700, South Africa ~72: ANNA-LISE WILLIAMSON;HENRY MUNYANDUKI;NICOLA JENNIFER DOUGLASS;RUZAIQ OMAR~ 33:GB ~31:2112611.5 ~32:03/09/2021

2024/01920 ~ Complete ~54:FLUOROPHENYL BETA-HYDROXYETHYLAMINES AND THEIR USE IN THE TREATMENT OF HYPERGLYCAEMIA ~71:ATROGI AB, Cardellgatan 1 SE-114 36 Stockholm, Sweden ~72: BENJAMIN PELCMAN;TORE BENGTSSON~ 33:GB ~31:1714734.9 ~32:13/09/2017

2024/01935 ~ Complete ~54:A DRONE FOR USE WITHIN A PIPE ~71:HYPERTUNNEL IP LIMITED, VIEWPOINT, BASING VIEW, BASINGSTOKE HAMPSHIRE RG21 4RG, UNITED KINGDOM, United Kingdom ~72: JORDAN, Steve;MEEKS, Alan~ 33:GB ~31:2113785.6 ~32:27/09/2021

2024/01951 ~ Complete ~54:POLYMORPHS AS ERBB INHIBITORS ~71:BLACK DIAMOND THERAPEUTICS, INC., One Main Street, 10th Floor, United States of America ~72: FOROUGH, Reza;JIANG, Siyi;LI, Meiqi;SHI, Juanjuan;ZHANG, Wu-Yan~ 33:US ~31:63/246,451 ~32:21/09/2021

2024/01915 ~ Complete ~54:DEVICE FOR CONTINUOUSLY AND REMOTELY MONITORING RADIAL GROWTH OF TREES ~71:Zhejiang Institute of Subtropical Crops, 334 Xueshan Road, Ouhai District, Wenzhou, Zhejiang Province, 325005, People's Republic of China ~72: CHEN QIUXIA;JIAO YULIAN;LI XIAOWEN;LIU YU;WANG JINWANG~

2024/01937 ~ Complete ~54:PEPTIDES WITH ANTI-ANGIOGENIC ACTIVITY ~71:CHEIRONTECH S.R.L., Via Agostino Depretis, 51, 80133, Napoli, Italy ~72: ARNALDO CARUSO;FRANCESCA CACCURI~ 33:IT ~31:102021000023357 ~32:09/09/2021

- APPLIED ON 2024/03/08 -



2024/01959 ~ Complete ~54:A PREPARATION METHOD OF A MICRO/NANO PARTICLE STRENGTHENING NEAR ALPHA HIGH TEMPERATURE TITANIUM ALLOY RESISTANT TO 700 DEGREES CELSIUS ~71: Hai'an & Taiyuan University of Technology Advanced Manufacturing and Intelligent Equipment Industrial Research Institute, Room 510, Zhongke Innovation Square Incubation Base, No.16 Shanghu Avenue, Chengdong Town, Hai'an City, Nantong City, Jiangsu Province, 226601, People's Republic of China; Taiyuan University of Technology, No.79 West Street Yingze, Taiyuan City, Shanxi Province, 030024, People's Republic of China ~72: Changjiang ZHANG; Hang LI; Heqing ZHANG; Jianchao HAN; Liangliang LIU; Min CHENG; Ruipeng GUO; Tao WANG; Zhaoping HOU ~ 33:CN ~31:2023116525225 ~32:05/12/2023

2024/01976 ~ Complete ~54: CONTROLLER OF CRUSHING SYSTEM, CRUSHING SYSTEM, AND METHOD OF CONTROLLING THE SAME ~71: KABUSHIKI KAISHA EARTHTECHNICA, 2-4, Kandajinbo-cho, Chiyoda-ku, Tokyo, 1010051, Japan ~72: JUN KOBAYASHI; KEITA YAMAMOTO; KENICHI NAKASHIMA; MORIYUKI SAKAMOTO; MOTOAKI ISHIZAWA; NOBUYUKI KAJITA; TAKASHI KIJIMA ~ 33:JP ~31:2021-132812 ~32:17/08/2021

2024/01980 ~ Complete ~54: D3-BINDING MOLECULES AND USES THEREOF ~71: WUXI BIOLOGICS IRELAND LIMITED, Mullagharlin, Dundalk, Co Louth, A91 X56F, Ireland ~72: JIJIE GU; XIA WANG; YONGQING CHENG; YUNYING CHEN ~ 33:CN ~31:PCT/CN2021/119011 ~32:17/09/2021

2024/01960 ~ Complete ~54: A SLIP JOINT & EXPANSION JOINT ~71: GAP INVENTIONS (PTY) LTD, 26 Sandhoogte street, South Africa ~72: THEUNIS JACOBUS NEL ~

2024/01971 ~ Complete ~54: INCOMBUSTIBLE SOLID WALL FOR EXTERNAL WALL OF ULTRAHIGH-RISE BUILDING AND CONSTRUCTION METHOD ~71: China Construction Third Engineering Bureau Group Co., Ltd, No. 552, Guannanyuan Road, Hongshan District, Wuhan, People's Republic of China; South China University of Technology, Wushan Road, Tianhe District, Guangzhou City, Guangdong Province, People's Republic of China; The Third Construction Co., Ltd Of China Construction Third EngineeringG Bureau, No. 2 Guannanyuan Road, Hongshan District, Wuhan City, Hubei Province, People's Republic of China ~72: Congyue QI; Guowei XU; Hongwei ZHOU; Jifeng WANG; Lijun YUAN; Linkai LIAO; Xinjun LIN; Yingdiao LUO; Yiyun ZHANG; Yongfeng QI; Yuming YANG; Zhihui WANG ~ 33:CN ~31:2022111728619 ~32:26/09/2022

2024/01973 ~ Complete ~54: SOLID WASTE PROCESSING APPARATUS ~71: CRANFIELD UNIVERSITY, College Road, Cranfield, Bedfordshire, MK43 0AL, United Kingdom ~72: LEON MATTHEW WILLIAMS ~ 33:GB ~31:2112131.4 ~32:24/08/2021

2024/01979 ~ Complete ~54: METHOD FOR DETECTING SENSE AND ANTISENSE STRANDS IN AN OLIGONUCLEOTIDE DUPLEX ~71: MESO SCALE TECHNOLOGIES, LLC., 1601 Research Boulevard, Rockville, Maryland, 20850, United States of America ~72: SETH B HARKINS; TIMOTHY J BREAK ~ 33:US ~31:63/242,208 ~32:09/09/2021

2024/01988 ~ Complete ~54: DELIVERY DEVICE AND DELIVERY SYSTEM ~71: Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: BELL, Sally; GALATI, Rosa; KERSEY, Rob; YIN, Chris ~ 33:CN ~31:2021110647465 ~32:10/09/2021; 33:GB ~31:2113506.6 ~32:22/09/2021

2024/01992 ~ Complete ~54: SOLAR THERMAL COLLECTOR ~71: SOLAR POLAR LIMITED, 289 Dogsthorpe Road, United Kingdom ~72: REID, Michael Graham ~ 33:GB ~31:2111529.0 ~32:11/08/2021

2024/01993 ~ Provisional ~54: VERITAS VETTING SOLUTION ~71: TEZ SOLUTIONS (PTY) LTD, 13 ACACIA AVENUE, THE ORCHARDS, South Africa ~72: ELDRIDGE MOTLHAKE ; TITUS KOTSOE ~

2024/01994 ~ Provisional ~54:BICAR ~71:LETSEKO ROBERT SELEKA, 10032 Moong Village Ga-Seleka, South Africa ~72: LETSEKO ROBERT SELEKA~

2024/01990 ~ Complete ~54:LINEAR-ROTARY CAPSULE ACTUATOR FOR NUCLEAR SOURCE HOLDER ~71:Vega Americas, Inc., 3877 Mason Research Parkway, MASON 45036, OH, USA, United States of America ~72: FLOWER, Randall L.~ 33:US ~31:63/242,287 ~32:09/09/2021

2024/01956 ~ Complete ~54:DEVICE WITH DISPOSABLE ELEMENT ~71:BRUIN BIOMETRICS, LLC, 10877 Wilshire Blvd., Suite 1600, United States of America ~72: BURNS, Martin, F.;CAMPBELL, Bill;GIUNTOLI, David, M.;RAPTIS, Mark;ROSS, Graham, O.~ 33:US ~31:62/744,513 ~32:11/10/2018;33:US ~31:62/804,095 ~32:11/02/2019

2024/01969 ~ Complete ~54:SWITCHGEAR ARCHITECTURE ~71:Eaton Intelligent Power Limited, Eaton House, 30 Pembroke Road, DUBLIN 4 D04 Y0C2, IRELAND, Ireland ~72: KONA, Kaushik;PAWAR, Vishal;PINGLE, Mangesh;SOLASE, Rushikesh;WAGHMORE, Minal~ 33:IN ~31:202311016936 ~32:14/03/2023;33:GB ~31:2306483.5 ~32:02/05/2023

2024/01984 ~ Complete ~54:IMPROVED EXECUTION OF AN OPERATION IN A SECURE ELEMENT ~71:IDEMIA France, 2 Place Samuel de Champlain, COURBEVOIE 92400, FRANCE, France ~72: DOS SANTOS, Elder;VUJCIC, Dragan~ 33:FR ~31:2109437 ~32:09/09/2021

2024/01958 ~ Complete ~54:DATA MANAGEMENT SYSTEM FOR CHILDREN IN PEDIATRIC NURSING ~71:The First Affiliated Hospital of Bengbu Medical University, No. 287, Changhuai Road, Bengbu, Anhui Province, People's Republic of China ~72: CHEN Shuang;DONG Xiaoyu;LI Baoguang;LIU Peipei;YAO Ke;ZHANG Ying~

2024/01977 ~ Complete ~54:PHARMACEUTICAL PREPARATION, PREPARATION METHOD THEREFOR AND USE THEREOF ~71:COHERENT BIOPHARMA (SUZHOU) LIMITED, C36-2F, No. 218 Xinghu Street, Industrial Park Suzhou, Jiangsu 215123, People's Republic of China ~72: PEIPEI SHANG;SIXIANG FAN;XIANHUI ZHANG~ 33:CN ~31:202111051190.6 ~32:08/09/2021

2024/01985 ~ Complete ~54:METHOD AND DEVICE FOR OBTAINING HIGH-PURITY HYDROGEN FROM METHANOL OR AMMONIA FOR OPERATING FUEL CELLS ~71:BASF SE, Carl-Bosch-Strasse 38, LUDWIGSHAFEN AM RHEIN 67056, GERMANY, Germany ~72: FUESSL, Andreas;HENSCHHEL, Carsten;MACHHAMMER, Otto~ 33:EP ~31:21191316.5 ~32:13/08/2021

2024/01987 ~ Complete ~54:ANTI-ACVR2A ANTIBODIES AND USES THEREOF ~71:Laekna Therapeutics Shanghai Co., Ltd., 5th Floor, 987 Cailun Road, Zhangjiang, Pudong, SHANGHAI 201203, CHINA (P.R.C.), People's Republic of China ~72: GU, Xiang-Ju Justin;HU, Meijuan;LU, Chris Xiangyang;YANG, Mengxue;ZHANG, Minhua;ZHANG, Ruipeng~ 33:IB ~31:2021/116485 ~32:03/09/2021

2024/01962 ~ Complete ~54:METHOD, DEVICE AND STORAGE MEDIUM FOR BULK CARRIER TIME CHARTER LEVELS BASED ON CONFIDENCE INDEX FORECASTING ~71:COSCO SHIPPING TECHNOLOGY (BEIJING) CO., LTD., Room 15A, Block F, Fuhua Building, No. 8 Chaoyangmen North Street, Dongcheng District, People's Republic of China ~72: CHEN, Zejin;LEI, Zhongsuo;ZHANG, Kai~ 33:CN ~31:202410014406.9 ~32:04/01/2024

2024/01968 ~ Complete ~54:DISCONNECTOR AND EARTHING SWITCH WITH TELESCOPIC CONTACT ~71:Eaton Intelligent Power Limited, Eaton House, 30 Pembroke Road, DUBLIN 4 D04 Y0C2, IRELAND, Ireland ~72: KONA, Kaushik;PAWAR, Vishal;PINGLE, Mangesh;SOLASE, Rushikesh;WAGHMORE, Minal~ 33:IN ~31:202311016938 ~32:14/03/2023;33:GB ~31:2306482.7 ~32:02/05/2023

2024/01975 ~ Complete ~54:HYBRID HIGH STRENGTH LOW ALLOY COLD-ROLLED AND ANNEALED STEEL STRIP AND METHOD FOR PRODUCING IT ~71:TATA STEEL IJMUIDEN B.V., Wenckebachstraat 1, 1951 JZ Velsen-Noord, Netherlands ~72: JEAN JOSEPH CAMPANIELLO~ 33:EP ~31:21202973.0 ~32:15/10/2021

2024/01978 ~ Complete ~54:PRODUCTION AMOUNT DETECTOR, PRODUCTION AMOUNT DETECTION SYSTEM INCLUDING THE SAME, AND PRODUCTION AMOUNT DETECTION METHOD ~71:KABUSHIKI KAISHA EARTHTECHNICA, 2-4, Kandajinbo-cho, Chiyoda-ku, Tokyo, 1010051, Japan ~72: JUN KOBAYASHI;KEITA YAMAMOTO;KENICHI NAKASHIMA;MORIYUKI SAKAMOTO;MOTOAKI ISHIZAWA;NOBUYUKI KAJITA;TAKASHI KIJIMA~ 33:JP ~31:2021-132813 ~32:17/08/2021

2024/01965 ~ Complete ~54:ALPHA-1 ANTITRYPSIN (AAT) RNAI AGENTS, COMPOSITIONS INCLUDING AAT RNAI AGENTS, AND METHODS OF USE ~71:ARROWHEAD PHARMACEUTICALS, INC., 225 South Lake Avenue, Suite 1050, Pasadena, California, 91101, United States of America ~72: CHRISTINE I WOODDELL;RUI ZHU;TAO PEI;ZHEN LI~ 33:US ~31:62/444,452 ~32:10/01/2017;33:US ~31:62/486,720 ~32:18/04/2017;33:US ~31:62/596,232 ~32:08/12/2017

2024/01967 ~ Complete ~54:ACTUATING MECHANISM FOR A DEVICE ~71:Eaton Intelligent Power Limited, 30 Pembroke Road, DUBLIN 4 D04 Y0C2, IRELAND, Ireland ~72: KONA, Kaushik;PAWAR, Vishal;PINGLE, Mangesh;SOLASE, Rushikesh;WAGHMORE, Minal~ 33:IN ~31:202311016937 ~32:14/03/2023;33:GB ~31:2306481.9 ~32:02/05/2023

2024/01957 ~ Complete ~54:DEVICE WITH DISPOSABLE ELEMENT ~71:BRUIN BIOMETRICS, LLC, 10877 Wilshire Blvd., Suite 1600, United States of America ~72: BURNS, Martin, F.;CAMPBELL, Bill;GIUNTOLI, David, M.;RAPTIS, Mark;ROSS, Graham, O.~ 33:US ~31:62/744,513 ~32:11/10/2018;33:US ~31:62/804,095 ~32:11/02/2019

2024/01961 ~ Complete ~54:A MULTI-LEVEL RESILIENT GATEWAY COMMAND AGENT MODEL AND DATA ACQUISITION SYSTEM FOR INDUSTRIAL INTERNET ~71:COSCO SHIPPING TECHNOLOGY (BEIJING) CO., LTD., Room 15A, Block F, Fuhua Building, No. 8 Chaoyangmen North Street, Dongcheng District, People's Republic of China ~72: LI, Chao;LI, Hongxi;SUN, Zhe;ZHANG, Kai;ZOU, Gaoming~ 33:CN ~31:202410064049.7 ~32:16/01/2024

2024/01954 ~ Provisional ~54:TELECOMMUNICATION ADVERTISING INFRASTRUCTURE AND METHOD ~71:ABRAMS, JONATHAN L., 1619 Trinidad Place, Trinidad Drive, Marina Martinique,, South Africa;CANNINGA, LESTER, 133 Buitenkant Street, Gardens,, South Africa;KARANDUTH, JAINENDRA D., 70 Walker Avenue, Selwyn,, South Africa;MILLNER, SHELTON I., 17 Connaught Avenue, Sandringham,, South Africa;PILLAI, JARED F., 52 Hobart Road, Bryanston,, South Africa ~72: ABRAMS, JONATHAN L.;CANNINGA, LESTER;KARANDUTH, JAINENDRA D.;MILLNER, SHELTON I.;PILLAI, JARED F.~

2024/01955 ~ Complete ~54:DEVICE WITH DISPOSABLE ELEMENT ~71:BRUIN BIOMETRICS, LLC, 10877 Wilshire Blvd., Suite 1600, United States of America ~72: BURNS, Martin, F.;CAMPBELL, Bill;GIUNTOLI, David, M.;RAPTIS, Mark;ROSS, Graham, O.~ 33:US ~31:62/744,513 ~32:11/10/2018;33:US ~31:62/804,095 ~32:11/02/2019

2024/01963 ~ Complete ~54:BIOINFORMATICS SYSTEMS, APPARATUS, AND METHODS FOR PERFORMING SECONDARY AND/OR TERTIARY PROCESSING ~71:ILLUMINA, INC., 5200 Illumina Way, United States of America ~72: HAHM, Mark;MEHIO, Rami;OJARD, Eric;PTASHEK, Amnon;RUEHLE, Michael;STONE, Gavin;VAN ROOYEN, Pieter~ 33:US ~31:62/347,080 ~32:07/06/2016;33:US ~31:62/399,582 ~32:26/09/2016;33:US ~31:62/414,637 ~32:28/10/2016;33:US ~31:15/404,146 ~32:11/01/2017;33:US ~31:62/462,869 ~32:23/02/2017;33:US ~31:62/469,442 ~32:09/03/2017;33:US ~31:15/497,149 ~32:25/04/2017

2024/01972 ~ Complete ~54:ATHEROSCLEROSIS-TARGETED LIPOSOME NANOCARRIER DELIVERY SYSTEM AND PREPARATION METHOD THEREFOR ~71:BEIJING INNO MEDICINE CO., LTD., Room 101-301, 3rd Floor, No. 9 Building, Zone 4, Xishan Creative Park, Haidian District, Beijing, 100195, People's Republic of China ~72: HUIJING WANG;QIAN MA;TUO DENG;XIAOMING CHEN~ 33:CN ~31:PCT/CN2021/116681 ~32:06/09/2021

2024/01982 ~ Complete ~54:NOVEL PLK1 DEGRADATION INDUCING COMPOUND ~71:Uptherra, Inc., 1-204, 9, Songdomirae-ro, Yeonsu-gu, INCHEON 21988, REPUBLIC OF KOREA, Republic of Korea ~72: CHUNG, So Hyun;KANG, Keum Young;KIM, Sang Youn;KIM, Seong Hoon;LEE, Gibbeum;LEE, Han Kyu;LEE, Jun Kyu;MIN, Im Suk;RYU, Hye Guk;RYU, Soo Hee~ 33:KR ~31:10-2021-0105358 ~32:10/08/2021;33:KR ~31:10-2021-0106488 ~32:12/08/2021;33:KR ~31:10-2021-0117389 ~32:03/09/2021;33:KR ~31:10-2021-0126757 ~32:24/09/2021;33:KR ~31:10-2022-0008456 ~32:20/01/2022;33:KR ~31:10-2022-0020996 ~32:17/02/2022;33:KR ~31:10-2022-0054880 ~32:03/05/2022;33:KR ~31:10-2022-0075838 ~32:21/06/2022

2024/01983 ~ Complete ~54:CLDN18.2-TARGETING ANTIBODY, BISPECIFIC ANTIBODY AND USE THEREOF ~71:Harbour Biomed (Shanghai) Co., Ltd, 6F-7F, No. 987, Cailun Road, Pilot Free Trade Zone, SHANGHAI 201203, CHINA (P.R.C.), People's Republic of China ~72: CHEN, Fei;DING, Yi;JHENG, Ming-Jin;QIN, Beibei;WANG, Yongqiang;WU, Yuetao;YANG, Yunxing;ZHANG, Yun;ZHAO, Chuchu~ 33:CN ~31:202110909032.3 ~32:09/08/2021

2024/01986 ~ Complete ~54:MULTIVALENT PNEUMOCOCCAL VACCINES ~71:Affinivax, Inc., 301 Binney Street, Suite 302, CAMBRIDGE 02142, MA, USA, United States of America ~72: BESIN, Gilles R.;BROERING, Teresa J.;BURKE, Heidi;LU, Yingjie;MALLEY, Richard;MCCOMBS, Janet E.;PUVANESARAJAH, Velupillai;SEBASTIAN, Shite;SHARMA, Onkar;STEVENSON, Taylor C.;YAO, Gang;ZHANG, Fan~ 33:US ~31:63/242,487 ~32:09/09/2021;33:US ~31:63/353,014 ~32:16/06/2022

2024/01964 ~ Complete ~54:MIXING DEVICE FOR PREPARATION OF ANTI-UTERINE AGING DRUGS ~71:Changzhou Maternal and Child Health Hospital, No. 16 Dingxiang Road, Changzhou City, Jiangsu Province, 213000, People's Republic of China ~72: Dai Xiuliang~ 33:CN ~31:202410067894X ~32:17/01/2024

2024/01970 ~ Complete ~54:NEW-TYPE ASSEMBLED FOUNDATION PIT SUPPORT SUITABLE FOR FINE SAND LAYER ~71:China Construction Third Engineering Bureau Group Co., Ltd, No. 552, Guannanyuan Road, Hongshan District, Wuhan, People's Republic of China;Ruiteng Basic Engineering Technology (Beijing) Co., Ltd, 1005, Building 3, Zijin Digital Park, Haidian District, Beijing, People's Republic of China;The Third Construction Co., Ltd Of China Construction Third EngineeringG Bureau, No. 2 Guannanyuan Road, Hongshan District, Wuhan City, Hubei Province, People's Republic of China ~72: Aiwen ZI;Chongxiao WANG;Congyue QI;Hongjing YE;Hongwei ZHOU;Huiling YAN;Jun LE;Lei FENG;Lijun YUAN;Long YANG;Lu YANG;Ning WU;Peiyong SONG;Pengfei ZHOU;Qingquan LI;Rong CHEN;Wentao GONG;Yongfeng QI;Yuehua ZHONG;Zhihui WANG~ 33:CN ~31:2022110162914 ~32:24/08/2022

2024/01974 ~ Complete ~54:WASTE PROCESSING APPARATUS ~71:CRANFIELD UNIVERSITY, College Road, Cranfield, Bedfordshire, MK43 0AL, United Kingdom ~72: LEON MATTHEW WILLIAMS~ 33:GB ~31:2112883.0 ~32:09/09/2021

2024/01981 ~ Complete ~54:CIRCULAR KNITTING MACHINE FOR HOSIERY OR THE LIKE AND METHOD FOR PROVIDING A TUBULAR ITEM ~71:Lonati S.p.A., Via Francesco Lonati, 3, BRESCIA 25124, ITALY, Italy ~72: LONATI, Ettore;LONATI, Fausto;LONATI, Francesco~ 33:IT ~31:102021000023264 ~32:09/09/2021

2024/01991 ~ Complete ~54:SYSTEMS AND METHODS FOR MODIFYING THE FOLDING TRAJECTORY AND FACILITATING FOLDING OF POLYPEPTIDE CHAINS ~71:STRENIC LLC, 10216 Farnham Dr., United States of America ~72: SOROKINA, Irina Nikolaevna~ 33:US ~31:63/244,262 ~32:15/09/2021

2024/01966 ~ Complete ~54:TRANSMISSION METHOD AND APPARATUS FOR MIMO SYSTEM  
~71:SAMSUNG ELECTRONICS CO., LTD., 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677,  
Republic of Korea ~72: JONGHO OH;JONGHWAN KIM;KILSIK HA;SEIJOON SHIM~ 33:KR ~31:10-2020-  
0120102 ~32:17/09/2020;33:KR ~31:10-2021-0014497 ~32:02/02/2021

2024/01989 ~ Complete ~54:RADIATION SOURCE HOLDER WITH ORIENTATION-INDEPENDENT INNER  
EXPANSION VOLUME ~71:Vega Americas Inc., 3877 Mason Research Parkway, MASON 45036, OH, USA,  
United States of America ~72: AHLERS, Shawn Gregory;FLOWER, Randall L.~ 33:US ~31:63/242,287  
~32:09/09/2021

- APPLIED ON 2024/03/11 -

2024/01995 ~ Complete ~54:NON-HUMAN ANIMALS HAVING A HEXANUCLEOTIDE REPEAT EXPANSION IN  
A C9ORF72 LOCUS ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown,  
United States of America ~72: ALLY, Roxanne;DROGUETT, Gustavo;FRENDEWEY, David;GUO,  
Chunguang;HESLIN, David;KAJIMURA, Daisuke;LACROIX-FRALISH, Michael;LAI, Ka-Man,  
Venus;MACDONALD, Lynn;SHARMA-KANNING, Aarti;SIAO, Chia-Jen;VALENZUELA, David, M.~ 33:US  
~31:62/402,613 ~32:30/09/2016;33:US ~31:62/452,795 ~32:31/01/2017

2024/01999 ~ Complete ~54:METHOD OF AUTOMATED CARGO CONSOLIDATION, ELECTRONIC  
EQUIPMENT, COMPUTER STORAGE MEDIA ~71:COSCO SHIPPING TECHNOLOGY (BEIJING) CO., LTD.,  
Room 15A, Block F, Fuhua Building, No. 8 Chaoyangmen North Street, Dongcheng District, People's Republic of  
China ~72: JIANG, Junjie;ZHANG, Kai;ZHAO, Zaigang~ 33:CN ~31:202410157633.7 ~32:04/02/2024

2024/02002 ~ Complete ~54:DRAINAGE DEVICE ~71:Zhongshan City People's Hospital, No.2 Sunwen East  
Road, Shiqi District, Zhongshan City, Guangdong Province, People's Republic of China ~72: Bo Xu;Jianhang  
Miao;Linkun Zhong;Shan Jiang~ 33:CN ~31:202310999808.4 ~32:10/08/2023

2024/02012 ~ Complete ~54:COOLING ELEMENT AND A METHOD IN CONNECTION WITH A COOLING  
ELEMENT ~71:METSO METALS OY, Rauhalanpuisto 9, 02230 Espoo, Finland ~72: AKI LAANINEN;HEIKKI  
HEINONEN;JAANA ROMPPANEN;PETER BJÖRKLUND;PETRI SOLA;PÄIVI SUIKKANEN;TIINA  
RANKI;VALTTERI SONNINEN~

2024/01998 ~ Complete ~54:PEDIATRIC NEUROTACTILE DETECTOR ~71:The First Affiliated Hospital of  
Bengbu Medical University, No. 287, Changhuai Road, Bengbu, Anhui Province, People's Republic of China ~72:  
DONG Huaifu;DONG Xiaoyu;LI Baoguang;LIU Peipei;QU Sehua;ZHANG Ying~

2024/02000 ~ Complete ~54:ANALYSIS METHOD OF ENVIRONMENTAL AIR POLLUTION SOURCES BASED  
ON FEATURE BIAS ~71:Beijing Capital Air Environmental Science & Technology Co.,Ltd., Room 201, Building 3,  
No. 9,Wanyuan Street, Beijing Economic and Technological Development Zone, Beijing, People's Republic of  
China;Hangzhou Juhuan Chuangyou Technology Development Co., Ltd., Room 704, 7th Floor, Building 2, No.  
2468, Keji Avenue, Qingshanhu Street, Lin 'an District, Hangzhou, People's Republic of China;Hubei Bituo New  
Material Technology Co., Ltd., Chukai Road, circular economy Industrial Park, Xianrendu Town, Laohekou City,  
Xiangyang, People's Republic of China;Jiangxi Institute of Ecological and Environmental Science Research and  
Planning, No.1131, Hongdu North Road, Nanchang, People's Republic of China ~72: Fengtao WAN;Ke  
WANG;Minghai CHEN;Wei DENG;Zhenwei DONG~ 33:CN ~31:2023102432704 ~32:14/03/2023

2024/02007 ~ Complete ~54:METHODS OF EFFECTING A HEMODYNAMIC CHANGE BY ADMINISTERING  
AN ANTI-NPR1 ANTIBODY ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road,  
Tarrytown, United States of America ~72: DUNN, Michael;KITHCART, Aaron;OLENCHOCK, Benjamin, Adam~  
33:US ~31:63/254,447 ~32:11/10/2021



2024/02010 ~ Complete ~54:COMPOUNDS AND METHODS FOR MODULATING SPLICING ~71:REMIX THERAPEUTICS INC., 100 Forge Road Suite 400 Watertown, Massachusetts, 02472, United States of America ~72: ALLEN T HOPPER;ANANT A AGRAWAL;DOMINIC REYNOLDS;FREDERIC VAILLANCOURT;GULSEHER SARAH SIRIN;MICHAEL W SEILER;PETER SMITH;STEPAN VYSKOCIL;SUDEEP PRAJAPATI~ 33:US ~31:63/238,424 ~32:30/08/2021;33:US ~31:63/238,687 ~32:30/08/2021;33:US ~31:63/238,693 ~32:30/08/2021;33:US ~31:63/282,902 ~32:24/11/2021;33:US ~31:63/393,202 ~32:28/07/2022

2024/02003 ~ Complete ~54:A SYSTEM FOR PREPARING FLY ASH WATER SLURRY (FAWS) USING BIO-ADDITIVE SOLUTION FROM DIOSCOREA HISPIDA ~71:Dr. DEBADUTTA DAS, Department of Chemistry, Buxi Jagabandhu Bidyadhar Autonomous College, BJB Nagar, Bhubaneswar, 751014, Odisha, India;Dr. BARADA PRASANA DASH, Department of Chemistry Rajdhani College, Bhubaneswar, Odisha, 751003, India;Dr. NIVA NAYAK, Department of Chemistry N C (Auto) College Jajpur, Dist. Jajpur, 755001, Odisha, India;Dr. TAPAN PANDA, Department of Chemistry Gandhi Institute for Technology (Autonomous) Bhubaneswar, 752054, Odisha, India;Dr. UMAKANTA BEHERA, Department of Mining Engineering, Government College of Engineering, Keonjhar, 758002, Odisha, India;Prof. PRAMILA KUMARI MISRA, Centre of Studies in Surface Science and Technology, School of Chemistry, Sambalpur University, Jyoti Vihar, 768019, India;SWETASHREE PATTANAIK, Trident Academy of Technology F2/A, Infocity, Chandaka Industrial Estate, Chandrasekharpur, Bhubaneswar, Odisha, 751024, India ~72: Dr. DEBADUTTA DAS;Dr. BARADA PRASANA DASH;Dr. NIVA NAYAK;Dr. TAPAN PANDA;Dr. UMAKANTA BEHERA;Prof. PRAMILA KUMARI MISRA;SWETASHREE PATTANAIK~

2024/02008 ~ Complete ~54:APPARATUS AND SYSTEM BASED ON INTERNET OF THINGS FOR LOGISTICS INFORMATION MANAGEMENT ~71:HEBEI CHEMICAL AND PHARMACEUTICAL COLLEGE, No. 88 Fangxing Road, Yuhua District, Shijiazhuang, Hebei, 050026, People's Republic of China ~72: SHI, Yan~

2024/02011 ~ Complete ~54:A METHOD FOR EVENING OUT THE FEEDING OF REACTION GAS WHEN FEEDING REACTION GAS INTO A SUSPENSION SMELTING FURNACE AND A BURNER ~71:METSO METALS OY, Rauhalanpuisto 9, 02230 Espoo, Finland ~72: KAJ EKLUND;PETER BJÖRKLUND~

2024/02018 ~ Complete ~54:RETROGRADE CORONARY VENOUS OR SINUS ADMINISTRATION OF THERAPEUTICS ~71:Renovacor, Inc., 5 Mead Point Drive, GREENWICH 06830, CT, USA, United States of America;Temple University of the Commonwealth System of Higher Education, Broad Street and Montgomery Avenue, PHILADELPHIA 19122, PA, USA, United States of America ~72: BOLOGNA, Marcia;FELDMAN, Arthur M.;MYERS, Valerie~ 33:US ~31:63/260,225 ~32:12/08/2021;33:US ~31:63/263,442 ~32:02/11/2021;33:US ~31:63/343,985 ~32:19/05/2022

2024/02020 ~ Complete ~54:METHOD AND SYSTEM FOR PROVIDING A SITE-SPECIFIC FERTILIZER RECOMMENDATION ~71:YARA INTERNATIONAL ASA, Drammensveien 131 0277, Norway ~72: REUSCH, Stefan~ 33:EP ~31:21194224.8 ~32:02/09/2021

2024/02005 ~ Complete ~54:A VEHICLE WHEEL STEERING MECHANISM AND A METHOD OF OPTIMIZING THE VEHICLE WHEEL STEERING MECHANISM ~71:TECHNICKA UNIVERZITA V LIBERCI, Studentska 1402/2, Czech Republic ~72: Jakub JEZEK;Martin KOLOMAZNIK;Robert VOZENILEK~

2024/02009 ~ Complete ~54:COMPOUNDS AND METHODS FOR MODULATING SPLICING ~71:REMIX THERAPEUTICS INC., 100 Forge Road Suite 400 Watertown, Massachusetts, 02472, United States of America ~72: ALLEN T HOPPER;ANANT A AGRAWAL;DOMINIC REYNOLDS;FREDERIC VAILLANCOURT;GULSEHER SARAH SIRIN;MICHAEL W SEILER;PETER SMITH;STEPAN VYSKOCIL;SUDEEP PRAJAPATI~ 33:US ~31:63/238,691 ~32:30/08/2021;33:US ~31:63/238,694 ~32:30/08/2021;33:US ~31:63/282,906

~32:24/11/2021;33:US ~31:63/283,132 ~32:24/11/2021;33:US ~31:63/393,205 ~32:28/07/2022;33:US  
~31:63/393,206 ~32:28/07/2022

2024/01997 ~ Complete ~54:A HEAT DISSIPATION DEVICE FOR BIG DATA SERVER ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467000, People's Republic of China ~72: Lei Liu;Shen Liu~

2024/02006 ~ Complete ~54:METHOD FOR FLUSHING REACTOR ~71:LINDE AG, Klosterhofstrasse 1, Germany;SABIC GLOBAL TECHNOLOGIES B.V., Plasticlaan 1, Netherlands ~72: KADIR, Suprayudi S.;MUTAIRI-AL, Yasser Battal;ZAYDI-AL, Abdullah H.~ 33:EP ~31:21195447.4 ~32:08/09/2021

2024/02004 ~ Complete ~54:A BIG DATA SERVER WITH DUST-PROOF EFFECT ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467000, People's Republic of China ~72: Lei Liu;Shen Liu~

2024/02015 ~ Complete ~54:METHOD FOR PREPARING PHOSPHORUS PENTAFLUORIDE ~71:FUJIAN LONGDE NEW ENERGY CO., LTD, 30 GONGYE ROAD, PINGPU VILLAGE, People's Republic of China ~72: CHEN, Songmei;LAN, Maowei;YANG, Ruifu~ 33:CN ~31:2023104799690 ~32:28/04/2023

2024/02021 ~ Provisional ~54:FIBROUS COMPOSITE BULLETPROOF LAMINATES ~71:Jan Christoffel Engelbrecht, Grewar Townhouse No 2, 14 Grewar Ave, South Africa;Leon Harmsen, 18 Trevor Street, Wilkoppies,, South Africa ~72: Jan Christoffel Engelbercht;Leon Harmsen~

2024/01996 ~ Complete ~54:A WATERLOGGING WATER MONITORING SYSTEM FOR URBAN PHYSICAL EXAMINATION PLATFORM ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467000, People's Republic of China ~72: Lei Liu;Shen Liu~

2024/02001 ~ Complete ~54:INJURY-PREVENTING URINARY CATHETER ~71:Haikou People's Hospital, 43 Renmin Avenue, Haidian Island, Haikou City, Hainan Province, 570208, People's Republic of China ~72: CHEN, Yang;HUANG, Denggao;WANG, Chan;ZHANG, Shufang~ 33:CN ~31:2023235144811 ~32:22/12/2023

2024/02019 ~ Complete ~54:PURIFICATION METHOD AND SYSTEM OF ELECTRONIC-GRADE LITHIUM HEXAFLUOROPHOSPHATE ~71:FUJIAN LONGDE NEW ENERGY CO., LTD, 30 GONGYE ROAD, PINGPU VILLAGE, People's Republic of China ~72: LAI, Yuhe;LAN, Jiajian;YANG, Ruifu~ 33:CN ~31:202310584446.2 ~32:23/05/2023

2024/02014 ~ Complete ~54:METHODS AND COMPOSITIONS FOR TREATMENT OF POLYCYSTIC KIDNEY DISEASE ~71:REGULUS THERAPEUTICS INC., 4224 Campus Point Court, Suite 210, San Diego, California 92121, United States of America ~72: DENIS DRYGIN;EDMUND CHUN YU LEE;GARTH A KINBERGER~ 33:US ~31:63/253,933 ~32:08/10/2021

2024/02017 ~ Complete ~54:COMPLEMENTARY FOOD PREPARATION ~71:FRESU, Antonello, 28 rue d'Olingen, ROODT SUR SYRE L-6914, LUXEMBOURG, Luxembourg;LARRE, Jean Michel, 57 rue des Moulins, BISSEN L-7784, LUXEMBOURG, Luxembourg;MASSON, Eric, 14, cité Aischdall, EISCHEN L-8440, LUXEMBOURG, Luxembourg ~72: FRESU, Antonello;LARRE, Jean Michel;MASSON, Eric~ 33:LU ~31:500531 ~32:12/08/2021

2024/02013 ~ Complete ~54:INHIBIN SUBUNIT BETA E (INHBE) MODULATOR COMPOSITIONS AND METHODS OF USE THEREOF ~71:ALNYLAM PHARMACEUTICALS, INC., 675 West Kendall Street, Henri A. Termeer Square, Cambridge, Massachusetts, 02142, United States of America ~72: AIMEE M DEATON~ 33:US ~31:63/246,084 ~32:20/09/2021

2024/02016 ~ Complete ~54:A METHOD FOR SCREENING FOR MODIFICATIONS IN THE INFECTIVITY RANGE OF BACTERIOPHAGES DUE TO EPIGENETIC IMPRINTING ~71:Universitat Pompeu Fabra, C. de la Mercè, 12, BARCELONA 08002, SPAIN, Spain ~72: GÜELL CARGOL, Marc;KNÖDLSSEDER, Nastassia Johanna~ 33:EP ~31:21382796.7 ~32:03/09/2021

- APPLIED ON 2024/03/12 -

2024/02034 ~ Complete ~54:CAIX TARGETING IL-12 FUSION PROTEINS AND METHODS OF USE THEREOF ~71:BICARA THERAPEUTICS INC., 245 Main Street, Cambridge, Massachusetts, 02142, United States of America ~72: ARVIND VITTAL GOSWAMI;AVANISH K VARSHNEY;HARISH KUMAR TRIPURANA;JAYA BHATNAGAR;PRADIP NAIR;RAMAKRISHNAN MELARKODE SUBBARAMAN;RESHMI NAIR;SENG-LAI TAN;SHIV RAM KRISHN;SRINIVAS REDDY BOREDDY~ 33:US ~31:63/245,523 ~32:17/09/2021

2024/02041 ~ Complete ~54:VISION-BASED SPORTS TIMING AND IDENTIFICATION SYSTEM ~71:MyLaps B.V., Zuiderhoutlaan 4, HAARLEM 2012 PJ, THE NETHERLANDS, Netherlands ~72: PENE, Cosmin Octavian;VERWOERD, Adriaan Klaas~ 33:NL ~31:2029136 ~32:06/09/2021

2024/02025 ~ Provisional ~54:SLUDGE TREATMENT ~71:ERASMUS, Petrus Nicolaas, 257 Wyoming Avenue, Berario, South Africa;VISAGIE, Joseph Cornelius, 257 Wyoming Avenue, Berario, South Africa ~72: ERASMUS, Petrus Nicolaas;VISAGIE, Joseph Cornelius~

2024/02040 ~ Complete ~54:CROSS-LINKED POLYMERIC CHELATORS COMPOSITIONS AND USE THEREOF ~71:The University of Kansas, 245 Strong Hall, 1450 Jayhawk Boulevard, LAWRENCE 66045, KS, USA, United States of America ~72: BERKLAND, Cory;QIAN, Jian~ 33:US ~31:63/233,024 ~32:13/08/2021;33:US ~31:63/316,831 ~32:04/03/2022

2024/02047 ~ Provisional ~54:TO MAKE A MISSING/STOLEN LAPTOP NON-OPERATIONAL BY DE-ACTIVATING UNKNOWN OR NEWLY DIFFERENT SERIAL NUMBERED HARD-DRIVES AND INVALIDATING THEM THROUGH INSTALLING A PROGRAM CODE ON THE ON-BOARD BIOS CHIPSET COMPONENT ~71:Mr Bavon Xikombiso Mhlari, 39a Rabe Street, African Spirit,, South Africa;Mr Thabang Gratitude Makgahlela, 471 Mokwena Street, Tlhabane,, South Africa ~72: Mr Bavon Xikombiso Mhlari;Mr Thabang Gratitude Makgahlela~

2024/02100 ~ Provisional ~54:CARAVAN GLAMPING ~71:Charles Eugene O'Reilly, Pavilion Heights No 66 Highveld, South Africa ~72: Charles Eugene O'Reilly~

2024/02026 ~ Provisional ~54:METHOD AND SYSTEM FOR DETERMINING A WELLNESS INDICATOR ~71:MOMENTUM METROPOLITAN LIFE LIMITED, 268 West Street, Centurion, South Africa ~72: DEAVALL, Clinton;FRIEDRICH, Wernher;HOLMES, Elaine;IMRAN, Zaidh;JACOBS, Alan;LA GRANGE, Andrew;LUXIMON, Maiyshla;PARK, Joon Soo;VENTER, Arnold;WUNDRAM, Gretel~

2024/02029 ~ Complete ~54:ENGLISH TEACHING BOARD WITH MULTIDIRECTIONAL OVERTURNING STRUCTURE ~71:HEBEI CHEMICAL AND PHARMACEUTICAL COLLEGE, No. 88 Fangxing Road, Yuhua District, Shijiazhuang, Hebei, 050026, People's Republic of China ~72: LI, Yinjuan~

2024/02033 ~ Complete ~54:RETICULOCALBIN-3 (RCN3) VARIANTS AND TREATMENT OF ASTHMA WITH INTERLEUKIN-4 RECEPTOR ALPHA (IL4R) ANTAGONISTS ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, New York, 10591, United States of America ~72: CHARLES PAULDING;SHAN CHEN~ 33:US ~31:63/250,546 ~32:30/09/2021

2024/02035 ~ Complete ~54:ANTI-SIGLEC-6 ANTIBODIES AND METHODS OF USE THEREOF ~71:ALLAKOS INC., 825 Industrial Road, Suite 500, San Carlos, California, 94070, United States of America ~72: BRADFORD A YOUNGBLOOD;EMILY C BROCK;JOHN LEUNG;JULIA SCHANIN;THUY LUU;WOUTER KORVER~ 33:US ~31:63/245,164 ~32:16/09/2021;33:US ~31:63/310,012 ~32:14/02/2022;33:US ~31:63/352,964 ~32:16/06/2022

2024/02042 ~ Complete ~54:N-SUBSTITUTED FERROPORTIN INHIBITORS ~71:Vifor (International) AG, Rechenstr. 37, ST. GALLEN 9014, SWITZERLAND, Switzerland ~72: ALTERMATT, Patrick;BUHR, Wilm;PLACE, Anna;KALOGERAKIS, Aris;MANOLOVA, Vania;REIM, Stefan;UMLAND, Klaus-Daniel~ 33:EP ~31:21198037.0 ~32:21/09/2021

2024/02043 ~ Complete ~54:EXHAUST SYSTEM AND COMPONENTS THEREOF ~71:ECC TEC MSJ Incorporated, 7420 Avenida Del Mar, Unit 2605, Boca Raton, FLORIDA 33433, USA, United States of America ~72: AKYILDIZ, Saban~ 33:US ~31:63/233,019 ~32:13/08/2021

2024/02046 ~ Complete ~54:ACTIVE COMPOUND COMBINATIONS AND FUNGICIDE COMPOSITIONS COMPRISING THOSE ~71:Bayer Aktiengesellschaft, Kaiser-Wilhelm-Allee 1, LEVERKUSEN 51373, GERMANY, Germany ~72: GÖHLICH, Frank;GÖRTZ, Andreas;KLÜKEN, Michael Agostinos~ 33:EP ~31:21191334.8 ~32:13/08/2021

2024/02024 ~ Provisional ~54:SLUDGE THICKENING ~71:ERASMUS, Petrus Nicolaas, 257 Wyoming Avenue, Berario, South Africa;VISAGIE, Joseph Cornelius, 257 Wyoming Avenue, Berario, South Africa ~72: ERASMUS, Petrus Nicolaas;VISAGIE, Joseph Cornelius~

2024/02028 ~ Complete ~54:AIR-COOLED STEAM CONDENSER WITH IMPROVED SECOND STAGE CONDENSER ~71:EVAPCO, INC., 5151 Allendale Lane, Taneytown, Maryland, 21787, United States of America ~72: HUBER, Mark;LIBERT, Jean-Pierre~ 33:US ~31:63/232,970 ~32:13/08/2021;33:US ~31:17/887,711 ~32:15/08/2022

2024/02030 ~ Complete ~54:MONITORING AND DIAGNOSIS SYSTEM FOR NETWORK COMMUNICATION SECURITY ~71:HEBEI CHEMICAL AND PHARMACEUTICAL COLLEGE, No. 88 Fangxing Road, Yuhua District, Shijiazhuang, Hebei, 050026, People's Republic of China ~72: WANG, Hui~

2024/02038 ~ Complete ~54:POLYOLEFIN COMPOSITION FOR FILAMENTS OR FIBERS ~71:Basell Polyolefine GmbH, Brühler Straße 60, WESSELING 50389, GERMANY, Germany ~72: MARCHINI, Roberta;MUSACCHI, Gianluca;PERDOMI, Gianni~ 33:EP ~31:21191860.2 ~32:18/08/2021

2024/02023 ~ Provisional ~54:THE VERTICAL POWER AND SMART MICROGRIDS (DUAL-PURPOSE) ~71:JJ Govender, 49 Allen Road, South Africa ~72: JJ Govender~

2024/02027 ~ Complete ~54:DUAL TUBE DRILL STRING COMPONENTS ~71:VERACIO LTD., 2455 South 3600 West, United States of America ~72: BRUBACHER, Adrian;DRENT, Christopher L.~ 33:US ~31:63/234,950 ~32:19/08/2021

2024/02032 ~ Complete ~54:METADATA-DRIVEN DATA INGESTION ~71:AB INITIO TECHNOLOGY LLC, 201 Spring Street, Lexington, Massachusetts, 02421, United States of America ~72: ADAM WEISS;DUSAN RADIVOJEVIC;JOHN VICKERY;MAJA JANKOVIC;ROBERT PARKS~ 33:US ~31:63/245,244 ~32:17/09/2021;33:US ~31:17/665,109 ~32:04/02/2022

2024/02036 ~ Complete ~54:DRILL STEEL COUPLING, ROD AND DRILL STEEL INCLUDING SAME ~71:PETRUS HENDRIK ROODT, Plot 67, Michael Road, Oaktree, Krugersdorp, Gauteng, 1739, South

Africa;ROBERT CHARLES GRADIDGE, 12 Kleim Street, Carletonville, 2499, South Africa ~72: PETRUS HENDRIK ROODT~ 33:ZA ~31:2021/05770 ~32:13/08/2021

2024/02039 ~ Complete ~54:SMALL-PARTICLE SIZE POLYMERIC CHELATORS ~71:The University of Kansas, 245 Strong Hall, 1450 Jayhawk Boulevard, LAWRENCE 66045, KS, USA, United States of America ~72: BERKLAND, Cory;QIAN, Jian~ 33:US ~31:63/233,022 ~32:13/08/2021;33:US ~31:63/316,810 ~32:04/03/2022

2024/02045 ~ Complete ~54:ANTIBIOTIC PYRAZINOTHIAZINE DERIVATIVES AND PROCESS OF PREPARATION THEREOF ~71:Bugworks Research India Pvt Ltd, Bugworks Research India Pvt. Ltd. EVOMA, 88 Borewell Road, Whitefield, BENGALURU 560066, INDIA, India ~72: BHARATHAM, Nagakumar;KAJIPALYA RANGANATHA RAO, Ranga Rao;KATAGIHALLI MATH, Nainesh;NANDISHAIAH, Radha;PEER MOHAMED, Shahul Hameed;RAMACHANDRAN, Vasanthi;SHARMA, Sreevalli~ 33:IN ~31:202141036833 ~32:13/08/2021

2024/02022 ~ Provisional ~54:A COVER DISPENSER APPARATUS FOR A BEVERAGE CONTAINER ~71:SOLOMON, Malcolm Illya, 6 Princes Place, 66 Princes Road, Harfield Village, CLAREMONT, Cape Town 7708, Western Cape, SOUTH AFRICA, South Africa ~72: SOLOMON, Malcolm Illya~

2024/02031 ~ Complete ~54:THERMAL INVERTER BOX ~71:TI-HOLDINGS B.V., Pietersbergweg 283, Netherlands ~72: Rudolf KOEKKOEK;Terence VECHIK~ 33:AU ~31:2021107333 ~32:25/08/2021;33:AU ~31:2021229172 ~32:25/08/2021

2024/02037 ~ Complete ~54:METHOD FOR CONTROLLING AN AMMONIA PLANT ~71:Casale SA, Via Giulio Pocobelli 6, LUGANO 6900, SWITZERLAND, Switzerland ~72: BIALKOWSKI, Michal Tadeusz;CORBETTA, Michele;FILIPPI, Ermanno;OSTUNI, Raffaele~ 33:EP ~31:21196360.8 ~32:13/09/2021

2024/02044 ~ Complete ~54:ELECTROCHEMICAL CELL DEVICES AND METHODS OF MANUFACTURING ~71:Meso Scale Technologies, LLC., 1601 Research Boulevard, ROCKVILLE 20850, MD, USA, United States of America ~72: BILLADEAU, Mark;CARBONE, Nicholas;CLINTON, Charles;DOWDELL, Scott;FOX-LYON, Nicholas;JEFFREY-COKER, Bandele;KOCHAR, Manish;LEIMKUEHLER, Aaron;PETTINGILL, Jeffrey;SIGAL, George;SPIELES, Gisbert;TABAKIN, Leo;TUCKER-SCHWARTZ, Alexander;VANDERSARL, Jules;WOHLSTADTER, Jacob~ 33:US ~31:63/233,167 ~32:13/08/2021

- APPLIED ON 2024/03/13 -

2024/02053 ~ Complete ~54:MEDICINE FEEDING EQUIPMENT FOR INTENSIVE CARE PATIENTS ~71:Tangshan workers Hospital, No.27 Wenhua Road, Tangshan City, Hebei Province, People's Republic of China ~72: CHEN Yan;DU Yangyang;HAN Jingxin;TIAN Xiaohua;WU Zheng;ZHANG Hui~

2024/02051 ~ Provisional ~54:PRIVACY ENHANCED SYSTEM FOR IDENTIFYING AND PREDICTING CRIME AND RISK ON PRIVATE DATA ~71:PRAELEXIS AI GMBH, RITTER-HILPRAND-STRASSE 9, 82024 TAUFKIRCHEN, GERMANY, Germany ~72: HOFFMANN, McElory~

2024/02088 ~ Complete ~54:COMPOSITIONS AND METHODS FOR TREATING SYNUCLEINOPATHIES ~71:H. LUNDBECK A/S, Ottilavej 9, 2500 Valby, Denmark ~72: ANNE SOFIE MARKUSSEN;DERRICK SPENCER KATAYAMA;FRANK LARSEN;HENRIK RAJESH KUMAR PARSHAD;JOHN SMITH;JOSEFINE NIELSEN SØDERBERG;LOUISE BUUR;MAGDALENA GAUDEN;MARK CORNELL MANNING;PEKKA KALLUNKI~ 33:EP ~31:EP21197120 ~32:16/09/2021

2024/02052 ~ Complete ~54:APPLICATION OF DOF TRANSCRIPTION FACTOR IN IMPROVEMENT OF DROUGHT TOLERANCE OF TRITICUM AESTIVUM ~71:Shandong Agricultural University, No. 61, Daizong Street, Taishan District, Tai'an City, Shandong Province, 271018, People's Republic of China ~72: BIE,



Xiaomin;CHU, Xiaoli;GAO, Xinqi;YIN, Tianci;ZHANG, Xiansheng;ZHENG, Lecheng~ 33:CN  
~31:2023116612952 ~32:06/12/2023

2024/02071 ~ Complete ~54:LYSE VARIANT AND METHOD FOR PRODUCING L-ARGININE BY USING SAME  
~71:CJ CHEILJEDANG CORPORATION, 330, DONGHO-RO, JUNG-GU, SEOUL 04560, REP OF KOREA,  
Republic of Korea ~72: CHOI, Sun Hyoung;KIM, Hyo Kyung;LEE, Zeewon~ 33:KR ~31:10-2021-0143660  
~32:26/10/2021

2024/02049 ~ Provisional ~54:ASSOCIATION OF WOMEN IN MINING SOUTH AFRICA ~71:MAMOSA MODISE,  
3360 TSHEGOFATSO STREET, South Africa ~72: MAMOSA MODISE~

2024/02061 ~ Complete ~54:EXTRACTION DEVICE FOR MICRO PLASTICS FROM FARMLAND SOIL AND  
EXTRACTION METHOD THEREOF ~71:Baotou Teachers'College of Inner Mongolia University of Science &  
Technology, No.3, Kexue Road, Qingshan District, Baotou City, Inner Mongolia Autonomous Region, 014030,  
People's Republic of China ~72: GAO Yuhan;Han Xiufeng;Men Guangyao;Sun Hailian;Xian Feng;Zhang Biao;Zhu  
Li~

2024/02081 ~ Complete ~54:LIGHTWEIGHT PHOTOVOLTAIC MODULE COMPRISING A GLASS AND  
POLYMER FRONT LAYER ~71:Commissariat a l'Energie Atomique et aux Energies Alternatives, 25 rue Leblanc  
Bât le Ponant 75015, PARIS 75015, FRANCE, France ~72: CHAMBION, Bertrand;COMMAULT,  
Benjamin;FRANCOIS, Jérôme;GAUME, Julien;VESCHETTI, Yannick~ 33:FR ~31:2109635 ~32:14/09/2021

2024/02087 ~ Complete ~54:SEQUENCING POLYNUCLEOTIDES USING NANOPORES ~71:ILLUMINA, INC.,  
5200 Illumina Way, San Diego, California, 92122, United States of America ~72: JEFFREY MANDELL;JESSICA  
KILLIAN~ 33:US ~31:63/247,155 ~32:22/09/2021

2024/02098 ~ Complete ~54:COMPOSITIONS AND METHODS FOR THE TREATMENT OF METABOLIC AND  
LIVER DISORDERS ~71:VIKING THERAPEUTICS, INC., 9920 Pacific Heights Blvd., Suite 350, United States of  
America ~72: BARKER, Geoffrey E.;BARNES, Maureen;LIAN, Brian;STEVENS, Erland;YAGIZ, Kader~ 33:US  
~31:63/244,406 ~32:15/09/2021

2024/02075 ~ Complete ~54:HERBICIDAL MALONAMIDES CONTAINING A CONDENSED RING SYSTEM  
~71:BASF SE, CARL BOSCH STRASSE 38, 67056 LUDWIGSHAFEN AM RHEIN, GERMANY, Germany ~72:  
HEINRICH, Marc;KORDES, Markus;KRAEMER, Gerd;NEWTON, Trevor, William;SEISER,  
Tobias;ZIMMERMANN, Gunther~ 33:EP ~31:21193999.6 ~32:31/08/2021

2024/02078 ~ Complete ~54:AN ELECTRONIC COMPONENT AUTHENTICATION SYSTEM ~71:ADAPTIX  
LIMITED, BEGBROKE SCIENCE PARK, CENTRE FOR INNOVATION AND ENTERPRISE (CIE), WOODSTOCK  
ROAD, BEGBROKE, OXFORDSHIRE OX5 1PF, UNITED KINGDOM, United Kingdom ~72: BOWEN, David  
Keith;EVANS, Mark~ 33:GB ~31:2111847.6 ~32:18/08/2021

2024/02082 ~ Complete ~54:SSTR4 AGONIST SALTS ~71:Eli Lilly and Company, Lilly Corporate Center,  
INDIANAPOLIS 46285, IN, USA, United States of America ~72: COATES, David Andrew;REMICK, David  
Michael~ 33:US ~31:63/243,785 ~32:14/09/2021

2024/02090 ~ Complete ~54:ANTIBODIES CAPABLE OF BINDING TO CD27, VARIANTS THEREOF AND  
USES THEREOF ~71:GENMAB A/S, Carl Jacobsens Vej 30, 2500, Valby, Denmark ~72: ALEXANDER  
MUIK;ANDREEA IOAN;DAVID SATIJN;ESTHER C W BREIJ;FRANK BEURSKENS;FRIEDERIKKE  
GIESEKE;ISIL ALTINTAS;JANINE SCHUURMAN;KRISTINA SCHÖDEL;PAULINE LINDA DE GOEJE;PETER  
BORROS;ROB DE JONG;UGUR SAHIN~ 33:EP ~31:21195118.1 ~32:06/09/2021;33:EP ~31:22173126.8  
~32:12/05/2022

2024/02048 ~ Provisional ~54:AIRSPRING WITH INTEGRATED HIGH-RESOLUTION AIR FLOW VALVE WITH NETWORK CONNECTIVITY ~71:JHC Smit, Dahlia street 67, Lindo Park, South Africa ~72: JHC Smit~ 33:ZA ~31:20240311 ~32:11/03/2024

2024/02058 ~ Complete ~54:A MULTIFUNCTIONAL STRETCHER FOR EMERGENCY INTERNAL MEDICINE DEPARTMENT ~71:PEOPLE'S HOSPITAL OF ANSHUN CITY GUIZHOU PROVINCE, No. 140, Huangguoshu Street, Xixiu District, Anshun, Guizhou, People's Republic of China ~72: Deju Li;Hong Fu;Youzhen Chen~

2024/02069 ~ Complete ~54:DEVICE FOR SIMULATION OF A MOVING VEHICLE ~71:TECHNICKA UNIVERZITA V LIBERCI, Studentska 1402/2, Czech Republic ~72: Petr LEPSIK;Rudolf MARTONKA;Vitezslav FLIEGEL~ 33:CZ ~31:PV 2021-39309 ~32:26/10/2021

2024/02094 ~ Complete ~54:SEPARATION SYSTEMS, PIGGYBACKING DETECTION DEVICES, AND RELATED COMPUTER PROGRAM PRODUCTS FOR CONTROLLING ACCESS TO A RESTRICTED AREA AND RELATED METHODS ~71:BOON EDAM, INC., 402 McKinney Pkwy, Lillington, North Carolina, 25746, United States of America ~72: BRADLEY S WHALEY;KURT J MEASOM~ 33:US ~31:63/241,961 ~32:08/09/2021

2024/02055 ~ Complete ~54:A METHOD AND REMEDIAL AGENT FOR ECOLOGICALLY RESTORING BARRIERS TO THE CULTIVATION OF FACILITY ECONOMIC CROPS ~71:Zhejiang province agriculture technology popularizing center, No.198 Shiqiao Road, Hangzhou City, Zhejiang Province, 310000, People's Republic of China;zhejiang academy of agricultural sciences, No.198 Shiqiao Road, Hangzhou City, Zhejiang Province, 310000, People's Republic of China ~72: Dingjian;Hong Chunlai;Wang Weiping;Yao yanlai;Zhu Fengxiang;Zhu Weijing~

2024/02067 ~ Complete ~54:METHOD AND SYSTEM FOR IDENTIFYING EXCELLENT SMALL FLUE-CURED TOBACCO PRODUCTION AREAS ACCORDING TO HIGH-PRECISION DIGITAL SOIL MAP ~71:HONGTA TOBACCO (GROUP) LIMITED LIABILITY COMPANY, 118 Hongta Avenue, Yuxi City, People's Republic of China;INSTITUTE OF SOIL SCIENCE, CHINESE ACADEMY OF SCIENCES, 71 Beijing East Road, Xuanwu District, Nanjing City, People's Republic of China ~72: LI, Xiangwei;LU, Junping;SHI, Xuezheng;SUN, Weixia;TIAN, Yutian;XIE, Xinqiao~ 33:CN ~31:2023106800635 ~32:08/06/2023

2024/02074 ~ Complete ~54:PROVIDING TEMPORARY NETWORK SLICE SERVICES IN A COMMUNICATION SYSTEM ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: BULAKCI, Ömer;CASATI, Alessio;GODIN, Philippe;GÜRSU, Halit Murat;NASEER-UL-ISLAM, Muhammad;NATARAJAN, Rajesh, Babu;WON, Sung Hwan~

2024/02079 ~ Complete ~54:A RESPIRATORY SYSTEM ~71:BORTHAKUR, Manas Pratim, FLAT 3 I, VIJAYA ORCHID APPARTMENT, AJANTA PATH, SURVEY BELTOLA, GUWAHATI 781028, ASSAM, India;KARIM, Habib Md Reazaul, VILLAGE AND PO CHAKLA, DISTRICT BONGAINGOAN, 783392, ASSAM, India;RAJGURU, Shivani, JYOTI NAGAR GOLAGHAT, NEAR 6 DHEKERIPETA L P SCHOOL, BHAGAGAON PO/PS/DISTRICT, GOLAGHAT 785621, ASSAM, India ~72: BORTHAKUR, Manas Pratim;CHOUDHURY, Kaushik;KARIM, Habib Md Reazaul;RAJGURU, Shivani;VERMA, Pradeep Kumar~ 33:IN ~31:202131041443 ~32:14/09/2021

2024/02086 ~ Complete ~54:PRODRUG OF PYRROLIDONE DERIVATIVES AS GLUCOKINASE ACTIVATOR ~71:HUA MEDICINE (SHANGHAI) LTD., 275 Ai Di Sheng Road, Pilot Free Trade Zone, Shanghai, 201203, People's Republic of China ~72: FUXING TANG;GUANGHUA LV;JIN SHE;LI CHEN;XIANGLE JIN~ 33:CN ~31:202111079620.5 ~32:15/09/2021;33:CN ~31:202211093895.9 ~32:08/09/2022

2024/02091 ~ Complete ~54:CRYSTAL FORM OF PYRIMIDINE HETEROCYCLIC COMPOUND AND PREPARATION METHOD THEREFOR ~71:D3 BIO (WUXI) CO., LTD., Room 324, 88 MeiLiang Road, MaShan

Street, BinHu District Wuxi, Jiangsu, 214092, People's Republic of China ~72: JIKUI SUN;SHUHUI CHEN;WENTAO WU;YANG ZHANG;YANGYANG XU~ 33:CN ~31:202111062619.1 ~32:10/09/2021;33:CN ~31:202211034826.0 ~32:26/08/2022

2024/02050 ~ Provisional ~54:ASSOCIATION OF WOMEN IN MINING SOUTH AFRICA ~71:MAMOSA MODISE, 3360 TSHEGOFATSO STREET, South Africa ~72: MAMOSA MODISE~

2024/02072 ~ Complete ~54:HERBICIDEL MALONAMIDES CONTAINING MONOCYCLIC HETEROAROMATIC RINGS ~71:BASF SE, CARL BOSCH STRASSE 38, 67056 LUDWIGSHAFEN AM RHEIN, GERMANY, Germany ~72: HEINRICH, Marc;KORDES, Markus;KRAEMER, Gerd;NEWTON, Trevor, William;SEISER, Tobias;ZIMMERMANN, Gunther~ 33:EP ~31:21193987.1 ~32:31/08/2021

2024/02077 ~ Complete ~54:OPTIMIZATION METHOD FOR PID CONTROL PARAMETERS OF AUTOMOBILE SEMI-ACTIVE SUSPENSION ~71:Jiangsu University, 301 Xuefu Road, Jingkou District, Zhenjiang, Jiangsu, 212013, People's Republic of China ~72: PAN Gongyu;WU Ke~ 33:CN ~31:2022116186217 ~32:15/12/2022

2024/02083 ~ Complete ~54:SMALL MOLECULE COMPOUNDS HAVING NAPHTHYLAMINE STRUCTURE AND APPLICATION THEREOF ~71:Hangzhou Phecdamed Co., Ltd., Room 301, Building 2, No. 2626 Yuhangtang Road, Yuhang District Hangzhou, ZHEJIANG 311100, CHINA (P.R.C.), People's Republic of China ~72: CEN, Xufeng;FAN, Mengyang;LIU, Dong;TIAN, Zhen;WU, Ronghai;XIA, Hongguang;XU, Xiaoyan~ 33:CN ~31:202111108417.6 ~32:22/09/2021

2024/02099 ~ Complete ~54:IMMUNE CELLS HAVING CO-EXPRESSED SHRNAS AND LOGIC GATE SYSTEMS ~71:ARSENAL BIOSCIENCES, INC., 329 Oyster Point Blvd, United States of America ~72: ALLEN, Nicole;BEZMAN, Natalie;COOPER, Aaron;GAGNON, John;HARRIS, Katherine;KHAN, Omar;LITTERMAN, Adam;MALIK CHAUDHRY, Harbani Kaur;NGUYEN, Michelle;SANTORO, Stephen;WILLIAMS, Jasper;YAO, Anzhi~ 33:US ~31:63/255,887 ~32:14/10/2021;33:US ~31:63/255,889 ~32:14/10/2021;33:US ~31:63/255,891 ~32:14/10/2021;33:US ~31:63/303,422 ~32:26/01/2022

2024/02062 ~ Complete ~54:DEHYDRATION DETECTION DEVICE FOR HEAVY-OIL VISCOSITY REDUCTION REACTION ~71:LiaoNing Petrochemical University, No.1, West Section of Dandong Road, Wanghua District, Fushun City, Liaoning Province, 113001, People's Republic of China ~72: Li Shengke;Liu Hailing;Yang Jiang;Zhao Xiaolong~

2024/02057 ~ Complete ~54:METHOD FOR DRIVING LARGE BIEDS FROM A RICE-FISH CO-CULTURE SYSTEM ~71:Shanghai Academy of Agricultural Sciences, No.1000, Jinqi Road, Fengxian District, Shanghai, 201403, People's Republic of China;Shanghai Ying Tun Agricultural Technology Company, Limited, Room 405, Building 1, Lane 461, Wuyi Road, Shanghai, 200050, People's Republic of China ~72: Hang YANG;Quan YUAN;Shiyang NIE;Weiwei HUANG;Weiwei LV;Wenzong ZHOU~

2024/02063 ~ Complete ~54:EVALUATION SYSTEM FOR FOREIGN TRADE ROUTE LEARNING COMPETITION ~71:Yantai Nanshan University, No. 12, Daxue Road, Donghai Tourist Resort, Longkou, Yantai, Shandong Province, People's Republic of China ~72: Leng Xueyan;Li Ting~

2024/02066 ~ Complete ~54:PIPE COUPLING ~71:JOHANNES ANDREAS DE WET, Plot 4, Rasesa, Kgatleng District, Botswana ~72: JOHANNES ANDREAS DE WET~ 33:ZA ~31:2023/03506 ~32:13/03/2023

2024/02060 ~ Complete ~54:ICE STORAGE TANK FORMING DEVICE ~71:Suzhou Santuo Cold Chain Technology Co.Ltd, Room 808, Building11, University Science Park, No.20 Jianxiong Road, Taicang, Suzhou, Jiangsu, 215400, People's Republic of China ~72: Haibing Du;Ruiqiu Du~

2024/02064 ~ Complete ~54:DEVICE FOR RADIATING SIMULTANEOUS INTERPRETATION EQUIPMENT  
~71:Shaanxi Vocational College of Finance and Economics, No.1 Wenlin Road, Xianyang City, Shaanxi Province,  
712000, People's Republic of China ~72: Song Yaqin~

2024/02084 ~ Complete ~54:FACILITATED DELIVERY OF CONCENTRATED ANTIBODY FORMULATIONS  
USING HYALURONIDASE ~71:Takeda Pharmaceutical Company Limited, 1-1 Doshomachi 4-Chome, Chuo-ku,  
Osaka-shi, OSAKA 541-0045, JAPAN, Japan ~72: GANGADHARAN, Bagirath;HAIDER,  
Norbert;HOEFINGHOFF, Joris;LEIDENMUEHLER, Peter;LI, Zhaoyang;NAGY, Andras~ 33:US ~31:63/243,832  
~32:14/09/2021

2024/02096 ~ Complete ~54:POLYMER COATING FOR MEDICAL DEVICES AND METHOD OF  
MANUFACTURE ~71:MOTT CORPORATION, 84 Spring Lane, United States of America ~72: HILL, Alex~ 33:US  
~31:63/246,012 ~32:20/09/2021

2024/02065 ~ Complete ~54:DEVICE FOR WOUND DEBRIDEMENT ~71:Zhejiang Jinhua Guangfu Cancer  
Hospital, No. 1296 Huancheng North Road, Wucheng District, Jinhua City, Zhejiang Province, 321000, People's  
Republic of China ~72: Fang Yiqun~

2024/02068 ~ Complete ~54:DOSAGE REGIMES FOR THE ADMINISTRATION OF GLUCAGON-LIKE-  
PEPTIDE-2 (GLP-2) ANALOGUES ~71:ZEALAND PHARMA A/S, Sydmarken 11, Denmark ~72: GLERUP,  
Peter;JEPPESEN, Palle Bekker;MOURITZEN, Ulrik;SONNE, Kim~ 33:GB ~31:1709643.9  
~32:16/06/2017;33:GB ~31:1714203.5 ~32:05/09/2017;33:GB ~31:1800873.0 ~32:19/01/2018

2024/02085 ~ Complete ~54:COMPOSITIONS AND METHODS FOR TREATING OR PREVENTING  
AUTOIMMUNE DISEASES ~71:ORCHARD THERAPEUTICS (EUROPE) LIMITED, 245 Hammersmith Road, 3rd  
Floor, London W6 8PW, United Kingdom ~72: BOBBY GASPAR;CHIARA RECCHI;JIA L WOLFE;JONATHON  
SIMEON MARKS-BLUTH;PERVINDER SAGOO~ 33:US ~31:63/241,836 ~32:08/09/2021

2024/02092 ~ Complete ~54:ELECTRONIC DETONATOR SPOOL AND DETONATOR COMPRISING SUCH A  
SPOOL ~71:DAVEY BICKFORD, Le Moulin Gaspard, 89550, Hery, France ~72: AYMERIC DENUELLE;FÉLIX  
PRIEUR~ 33:FR ~31:FR2109153 ~32:01/09/2021

2024/02056 ~ Complete ~54:SELECTION SYSTEM OF CLASSIFIED TUNNELING SUPPORTING EQUIPMENT  
FOR ROADWAY DIACHAMBER ~71:Anhui University of Science and Technology, 168 Taifeng Street, Tianjiaan  
District, Huainan City, Anhui Province, People's Republic of China;Ordos Haohua Hongqingliang Mining Co., Ltd,  
Bulawan Community, Shiba Getu Village, Zhaojun Town, Dalate Banner, Ordos City, Inner Mongolia Autonomous  
Region, People's Republic of China ~72: CHEN Jianchong;LI Chenglong;MA Yaorong;WANG Bo;ZHANG  
Honghui;ZHANG Tao~

2024/02059 ~ Complete ~54:FUMIGATION EQUIPMENT BASED ON BREAST TREATMENT ~71:HENAN  
PROVINCE HOSPITAL OF TCM, No. 6 Dongfeng Road, Jinshui District, Zhengzhou City, Henan Province,  
450053, People's Republic of China ~72: Cai Wenmin;Wang Can;Xu Qifeng;Yang Mengmeng;Zhang Baoyong~

2024/02070 ~ Complete ~54:PIV5-BASED CORONAVIRUS VACCINES AND METHODS OF USE THEREOF  
~71:CYANVAC LLC, 220 Riverbend Road, Athens, United States of America ~72: BEAVIS, Ashley;GINGERICH,  
Maria Cristina;HE, Biao;JIN, Hong;LI, Zhuo~ 33:US ~31:63/246,161 ~32:20/09/2021;33:US ~31:63/365,934  
~32:06/06/2022

2024/02097 ~ Complete ~54:CHAIN TYPE CASTING MACHINE ~71:GUANGDONG HUAXING HEAT  
EXCHANGE EQUIPMENT CO., LTD., Xiafushan Village, Qiandong Town, Raoping County, Chaozhou, People's  
Republic of China;RAOPING YUEXING COPPER PROCESSING CO., LTD., Shangfushan Development Zone,

Raoping County, Chaozhou, People's Republic of China;SHANTOU HUAXING (RAOPING) COPPER INDUSTRIAL CO., LTD., Shayuan Development Zone, Shangfushan Village, Qiandong Town, Raoping County, Chaozhou, People's Republic of China;SHANTOU HUAXING METALLURGICAL EQUIPMENT CO., LTD., Rongsheng Science Zone, Daxue Road, Jinping District, Shantou, People's Republic of China ~72: LI, Lihong;LIU, Xiongzhong;SHE, Jingpeng;WU, Yuan;ZHENG, Peide~ 33:CN ~31:202122319704.3 ~32:24/09/2021

2024/02054 ~ Complete ~54:HEAT TREATMENT EQUIPMENT FOR ALUMINUM ALLOY CASTINGS ~71:Taiyuan University of Science and Technology, No.66 Waliu Road, Wanbailin District, Taiyuan City, Shanxi Province, 030024, People's Republic of China ~72: DU Ting~

2024/02073 ~ Complete ~54:HIGHLY LOADED BROMOXYNIL FORMULATIONS ~71:ADAMA AUSTRALIA PTY LTD, LEVEL 1, BUILDING B, 207 PACIFIC HIGHWAY, ST LEONARDS, NEW SOUTH WALES 2065, AUSTRALIA, Australia ~72: HORSFIELD, Andrew;VAUGHAN, Peter~ 33:AU ~31:2021221815 ~32:25/08/2021

2024/02076 ~ Complete ~54:HERBICIDAL MALONAMIDES ~71:BASF SE, CARL BOSCH STRASSE 38, 67056 LUDWIGSHAFEN AM RHEIN, GERMANY, Germany ~72: HEINRICH, Marc;KORDES, Markus;KRAEMER, Gerd;NEWTON, Trevor, William;SEISER, Tobias;ZIMMERMANN, Gunther~ 33:EP ~31:21193044.1 ~32:25/08/2021

2024/02080 ~ Complete ~54:METHOD FOR OBTAINING AN ANTIOXIDANT COMPOSITION FROM LIGNIN, LIGNIN LIQUOR OR BLACK LIQUOR ~71:FUNDACIÓN CENER, Avenida Ciudad de la Innovación, Spain ~72: CLEMENTE CORNAGO, Alberto;FERNÁNDEZ OCHOA, Jon;FUNCIA MUGUERZA, Ibai~ 33:EP ~31:21382822.1 ~32:13/09/2021

2024/02095 ~ Complete ~54:COMPOSITIONS COMPRISING NON-RACEMIC MIXTURES OF (R)- AND (S)-3,4-METHYLENEDIOXYMETHAMPHETAMINE OR (R) AND (S) N-METHYL-1,3-BENZODIOXYLBUTANAMINE AND USES THEREOF ~71:PHARMALA BIOTECH INC., 1055 West Georgia Street, 1500 Royal Centre, P.O. Box 11117, Vancouver, British Columbia, V6E 4N7, Canada ~72: HARPREET KAUR;LEONARD HOWELL;NICHOLAS KADYSH~ 33:US ~31:63/235,460 ~32:20/08/2021;33:US ~31:63/298,820 ~32:12/01/2022

2024/02089 ~ Complete ~54:A PERSONAL CARE COMPOSITION COMPRISING VITAMIN K2 AND HYDROXYSTEARIC ACID ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: ANITA DAMODARAN;ANNU KUMARI;ASHWINI SADAWARTE;NIRMALA SANTOSH NAIR;PERMITA BOSE;SATISH KUMAR VENKATESH;TINGYAN MI;XUELAN GU~ 33:CN ~31:PCT/CN2021/123468 ~32:13/10/2021;33:EP ~31:21210941.7 ~32:29/11/2021

2024/02093 ~ Complete ~54:TROPICAL ROOT-KNOT NEMATODE RESISTANT CARROT PLANT ~71:BEJO ZADEN B.V., Trambaan 1, 1749, CZ Warmenhuizen, Netherlands ~72: ADRIANA DORIEN HAARSMA;ALBERTUS JOHANNES MARIA SCHRIJVER;DIANA KATSCHNIG;PETER ARNOLDUS DEKKER;WILLEM ARIE ZWAAN~

- APPLIED ON 2024/03/14 -

2024/02115 ~ Complete ~54:PREPARATION METHOD AND APPLICATION OF PORCINE CIRCOVIRUS TYPE II NANOVAACCINE BASED ON COVALENT ORGANIC FRAMEWORKS ~71:Institute of Animal Science and Veterinary Medicine, Shandong Academy of Agricultural Sciences, No.202 Gongye North Road, Jinan City, Shandong Province, People's Republic of China ~72: CHEN Zhi;DING Luogang;JI Xiang;LI Jianda;LIU Fei;REN Sufang;SHI Min;WU Jiaqiang;YU Jiang;ZHANG Lin;ZHANG Yuyu~ 33:CN ~31:2023117581307 ~32:20/12/2023



2024/02141 ~ Complete ~54:PACIFYING PERSONAL PROTECTIVE DEVICE ~71:JEFFERSON, Toni, 268 COUNTRY CHASE DR., JACKSON, TN 38305, USA, United States of America ~72: JEFFERSON, Toni~ 33:US ~31:17/488,525 ~32:29/09/2021

2024/02140 ~ Complete ~54:METHODS OF DOSING OF APICAL SODIUM-DEPENDENT BILE ACID TRANSPORTER INHIBITORS (ASBTIS) ~71:MIRUM PHARMACEUTICALS, INC., 950 Tower Lane, Suite 1050, United States of America ~72: PEETZ, Christopher~ 33:US ~31:63/271,916 ~32:26/10/2021;33:US ~31:63/280,470 ~32:17/11/2021;33:US ~31:63/354,424 ~32:22/06/2022

2024/02113 ~ Complete ~54:PRIMER SET AND KIT FOR IDENTIFYING FEMALE STRENGTH OF CUCUMBERS AND USE THEREOF ~71:Beijing Academy of Agriculture and Forestry Sciences, No. 9, Shuguang Huayuan Middle Road, Haidian District, Beijing, 100089, People's Republic of China ~72: HUANG, Jijun;LUO, Jiang;MAO, Aijun;TIAN, Shouwei;WANG, Hang;WEN, Changlong;XIA, Changxuan;YANG, Jingjing;ZHANG, Chengdong;ZHANG, Jian;ZHANG, Xiaofei;ZHAO, Hong~ 33:CN ~31:2023113535494 ~32:19/10/2023

2024/02119 ~ Complete ~54:COMPACT SWITCHING APPARATUS ~71:EATON INTELLIGENT POWER LIMITED, 30 Pembroke Road, Ireland ~72: HEILERSIG, Dinant~ 33:GB ~31:2304942.2 ~32:03/04/2023;33:GB ~31:2312863.0 ~32:23/08/2023

2024/02121 ~ Complete ~54:A MULTI-MODE IMAGE FUSION METHOD BASED ON DATA ADAPTIVE GRAPH CONVOLUTIONAL DEEP NETWORK ~71:Suzhou University, Erpu Village, Zhuxianzhuang Town, Yongqiao District, Suzhou City, Anhui Province, 234000, People's Republic of China ~72: Kai Guo;Nannan Liang~ 33:CN ~31:202410155586.2 ~32:04/02/2024

2024/02144 ~ Complete ~54:BIOFUEL BLENDS WITH IMPROVED OXIDATION STABILITY AND LUBRICITY ~71:SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., Carel van Bylandtlaan 30, HR The Hague, Netherlands ~72: BALAM, Harish Kumar;CAIAZZO, Aldo;DE JONGE, Diederik Mattheus Antonius;VAN DIJK, Nicolaas~ 33:US ~31:63/257,748 ~32:20/10/2021

2024/02146 ~ Complete ~54:TARGETED DELIVERY OF THERAPEUTIC ENZYMES ~71:JOINT-STOCK COMPANY "GENERIUM", ul. Zavodskaya, building 273, pos. Volginskiy, Russian Federation ~72: KHAMITOV, Ravil Avgatovich;RESHETNIK, Elizaveta Vyacheslavovna;SHUKUROV, Rakhim Rakhmankulyyevich;SHUSTER, Aleksandr Mikhailovich~ 33:RU ~31:2021124495 ~32:18/08/2021

2024/02117 ~ Complete ~54:ELECTRIC SWITCHING DEVICE WITH IMPROVED ACTUATION MECHANISM ~71:EATON INTELLIGENT POWER LIMITED, 30 Pembroke Road, Ireland ~72: SCHOONENBERG, Gerard;STEVELINK, Frans~ 33:GB ~31:2303834.2 ~32:16/03/2023

2024/02120 ~ Complete ~54:A METHOD FOR PREPARING BIOCHAR BALLS WITH HIGH ADSORPTION PERFORMANCE USING SOLID WASTE AS RAW MATERIAL ~71:Kunming University of Science and Technology, No.68, Wenchang Lane, Yi'eryi Street, Wuhua District, Kunming City, Yunnan Province, 650093, People's Republic of China ~72: Fangfang Li;Lan Zhang;Qihong Cen;Xiang Dong;Yan Zhao~

2024/02142 ~ Complete ~54:APICAL SODIUM-DEPENDENT TRANSPORTER INHIBITOR COMPOSITIONS ~71:MIRUM PHARMACEUTICALS, INC., 950 Tower Lane, Suite 1050, United States of America ~72: BRITTAIN, Jason E.;HWANG, Helen;KOMMURU, Thirumala;VIG, Pamela~ 33:US ~31:63/271,857 ~32:26/10/2021

2024/02116 ~ Complete ~54:HEALTHY TEA DRINK FOR LOWERING BLOOD SUGAR AND PREPARATION METHOD THEREOF ~71:Daodu Health Management Consulting (Xuzhou) Co., Ltd, 1-109, Building D, Greenland Business City (Block B7-2) LOFT, Yunlong Dist., Xuzhou, Jiangsu, People's Republic of China ~72: Huajun Liu;Xuemei Liu~ 33:CN ~31:202410127364X ~32:30/01/2024

2024/02122 ~ Complete ~54:A GAIT METHOD AND SYSTEM BASED ON IMAGE RECOGNITION ~71:Shaanxi Institute of International Trade & Commerce, No. 35, TongYi West Road, Fengxi New Town, Xixian New District, Xi'an City, Shaanxi Province, 712046, People's Republic of China ~72: Jing Guo;Jingqiang Hou;Pengyi Zheng;Ru Chen;Xijuan Wang~

2024/02143 ~ Complete ~54:DRILL RODS HAVING STABILIZERS, AND SYSTEMS AND METHODS COMPRISING SAME ~71:BOART LONGYEAR COMPANY, 2455 South 3600 West, United States of America ~72: BRUBACHER, Adrian;DRENTH, Christopher L.~ 33:US ~31:63/235,440 ~32:20/08/2021

2024/02114 ~ Complete ~54:INVENTION RELATES TO ENHANCED BIOLOGICAL RETENTION POND FOR ENHANCED NITROGEN AND PHOSPHORUS REMOVAL ~71:Hunan University of Technology, No. 88, Mount Taishan West Road, Tianyuan District, Zhuzhou City, Hunan Province, People's Republic of China ~72: CAO Kui;FU Zhengrong;PENG Bo;ZHANG Lehong;ZHANG Weiqi~

2024/02118 ~ Complete ~54:IMPROVED EXHAUST OF HOT GASES RESULTING FROM AN ARC EVENT IN AN ELECTRIC SWITCHGEAR ~71:EATON INTELLIGENT POWER LIMITED, 30 Pembroke Road, Ireland ~72: LAMMERS, Wim;SCHOONENBERG, Gerard~ 33:GB ~31:2303866.4 ~32:16/03/2023

2024/02145 ~ Complete ~54:BIOFUEL BLENDS ~71:SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., Carel van Bylandtlaan 30, HR The Hague, Netherlands ~72: BALAM, Harish Kumar;CAIAZZO, Aldo;POPE, Michael Richard;SHIOSAKI, Daniel Thomas;VAN DIJK, Nicolaas~ 33:US ~31:63/257,735 ~32:20/10/2021

- APPLIED ON 2024/03/18 -

2024/02206 ~ Provisional ~54:PAYSAFE BIOMETRIC PAYMENT SYSTEM ~71:Brendan Denis Fernandez, 30 Ballyclare Drive, South Africa ~72: Brendan Denis Fernandez~

2024/02107 ~ Provisional ~54:DYNAMIC AIRSPRING SUSPENSION SYSTEM WITH ELECTRONIC PRESSURE REGULATOR CONTROL ON A NETWORK PLATFORM TO PREVENT OVERLOADING AND INCREASE VEHICLE EFFICIENCY ~71:JHC Smit, 76 Dahlia Street, Lindo Park, South Africa ~72: JHC Smit~ 33:ZA ~31:160320242 ~32:16/03/2024

2024/02126 ~ Complete ~54:SEED VOLUME MEASURER AND MEASURING METHOD ~71:Xinjiang Agricultural University, No. 311 Nongda East Road, Sayibak District, Urumqi City, Xinjiang Uygur Autonomous Region, 831100, People's Republic of China ~72: BAI, Guanghong;REN, Jiaojiao;WU, Penghao~

2024/02134 ~ Complete ~54:ADAS DRIVING RECORDER FOR FATIGUE DRIVING DETECTION ~71:ANHUI SCIENCE AND TECHNOLOGY UNIVERSITY, No. 9 Donghua Road, Fengyang County, Chuzhou City, Anhui Province, People's Republic of China ~72: Wang Hongyu;Wang Le;Zhang Pingjuan~

2024/02151 ~ Complete ~54:MULTI-DIRECTIONAL AUXILIARY MEMORY TEACHING SYSTEM FOR ENGLISH TEACHING ~71:HEBEI CHEMICAL AND PHARMACEUTICAL COLLEGE, No. 88 Fangxing Road, Yuhua District, Shijiazhuang, Hebei, 050026, People's Republic of China ~72: JIAO, Chunhong~

2024/02179 ~ Complete ~54:IMPROVED PERFUME COMPOSITIONS COMPRISING SULFUR-CONTAINING PRO-FRAGRANCE COMPOUNDS ~71:Firmenich SA, 7, Rue de la Bergère, SATIGNY 1242, SWITZERLAND, Switzerland ~72: HOZUMI, Taro;STRUILLLOU, Arnaud;VERHOVNIK, Glenn~ 33:EP ~31:21203732.9 ~32:20/10/2021

2024/02189 ~ Complete ~54:FORMULATION AND COMPOSITION WHICH PROMOTE TARGETED POLLINATION BY BEES TOWARDS BLUEBERRY CROPS AND RELATED METHODS ~71:BEEFLOW CORPORATION, 5837 E Los Angeles Ave Somis, California, 93066, United States of America;CONSEJO

NACIONAL DE INVESTIGACIONES CIENTÍFICAS Y TÉCNICAS (CONICET), Godoy Cruz 2290 Piso 10 Ciudad Autónoma de Buenos Aires, C1425FQB, Argentina; UNIVERSIDAD DE BUENOS AIRES, Viamonte 430 Planta Baja, Dirección de Mesa de Entradas, Salidas y Archivo del Rectorado y Consejo Superior Ciudad Autónoma de Buenos Aires C1053ABJ, Argentina ~72: FLORENCIA PALOTTINI; MARÍA CECILIA ESTRAVIS BARCALA; WALTER MARCELO FARINA~ 33:US ~31:63/240,486 ~32:03/09/2021

2024/02192 ~ Complete ~54:A TRUSS ~71:FRAMECAD LICENSING LIMITED, 99 Felton Mathew Avenue, Glen Innes, Auckland, 1072, New Zealand ~72: DANIEL JERRY SPENCER; STEWART MARK TAYLOR~ 33:AU ~31:2021218024 ~32:17/08/2021

2024/02108 ~ Provisional ~54:A REMOTE TECHNICAL SITE ASSESMENT METHOD/SYSTEM ~71:Kabuya Mulumba Randy, Kyalami Hills, South Africa ~72: Kabuya Mulumba Randy~

2024/02127 ~ Complete ~54:FINGERPRINT SPECTRUM OF ZUOGUI JIANGTANG JIEYU FORMULATION, ESTABLISHMENT METHOD AND APPLICATION THEREOF ~71:THE FIRST HOSPITAL OF HUNAN UNIVERSITY OF CHINESE MEDICINE (CLINICAL RESEARCH INSTITUTE OF TRADITIONAL CHINESE MEDICINE) , 95 Shaoshan Middle Road, Yuhua District, Changsha City, People's Republic of China ~72: HAN, Yuanshan; LONG, Hongping; WANG, Yajing; WANG, Yuhong; YANG, Hui~ 33:CN ~31:2024100978499 ~32:23/01/2024

2024/02135 ~ Complete ~54:TOUGHNESS EVALUATION SYSTEM FOR HIGHWAY TUNNEL ~71:Research Institute of Highway Ministry of Transport, No. 8 Xitucheng Road, Haidian District, Beijing, 100088, People's Republic of China; ZHEJIANG INSTITUTE OF COMMUNICATIONS CO., LTD., No. 928 Yuhangtang Road, Xihu District, Hangzhou City, Zhejiang Province, 310030, People's Republic of China ~72: CUI, Danyi; HU, Hongchuan; LI, Weiping; XU, Chongbang~

2024/02154 ~ Complete ~54:HEAT-ACTIVATABLE LINERLESS LABEL CONSTRUCTIONS ~71:AVERY DENNISON CORPORATION, 8080 Norton Parkway, United States of America ~72: BRIAND, Antoine; CARRER, Marina; MEHRETA, Sara; VAN DER HORST, Hidde R.; WIEGERS, Ronald~ 33:US ~31:63/255,988 ~32:15/10/2021; 33:US ~31:63/364,149 ~32:04/05/2022; 33:US ~31:63/376,299 ~32:20/09/2022

2024/02162 ~ Complete ~54:NOVEL YHHS VARIANT AND METHOD FOR PRODUCING O-PHOSPHOSERINE, CYSTEINE, AND DERIVATIVE OF CYSTEINE USING SAME ~71:CJ CHEILJEDANG CORPORATION, 330, DONGHO-RO, JUNG-GU, SEOUL 04560, REP OF KOREA, Republic of Korea ~72: CHOI, Jin-Geun; JUNG, Hwi-Min; LEE, Jin Nam; PARK, Hye Min; SIM, Hee-jin~ 33:KR ~31:10-2021-0072313 ~32:03/06/2021

2024/02170 ~ Complete ~54:TREATMENT OF SLEEP DISTURBANCES IN AUTISM SPECTRUM DISORDER PATIENTS ~71:VANDA PHARMACEUTICALS INC., 2200 Pennsylvania Ave. NW, Suite 300E, United States of America ~72: POLYMERPOULOS, Christos; POLYMERPOULOS, Mihael; SMIESZEK, Sandra~ 33:US ~31:63/243,918 ~32:14/09/2021; 33:US ~31:63/268,430 ~32:23/02/2022; 33:US ~31:63/269,137 ~32:10/03/2022

2024/02190 ~ Complete ~54:PRODUCTION OF LIQUEFIED PETROLEUM GAS (LPG) HYDROCARBONS FROM CARBON DIOXIDE-CONTAINING FEEDS ~71:GAS TECHNOLOGY INSTITUTE, 1700 South Mount Prospect Road, Des Plaines, Illinois, 60018, United States of America ~72: ANDREW WOLEK; JIM WANGEROW; PATRICK LITTLEWOOD; TERRY MARKER~ 33:US ~31:17/470,195 ~32:09/09/2021

2024/02193 ~ Complete ~54:FUNGICIDAL SUBSTITUTED HETEROCYCLES ~71:FMC CORPORATION, 2929 Walnut Street, Philadelphia, Pennsylvania, 19104, United States of America ~72: ALEXANDER ROBERT WHITE; DANIEL AKWABOAH; JEFFREY KEITH LONG; LIANA HIE; PAULA LOUISE SHARPE; RAVISEKHARA P REDDY; THOMAS MARTIN STEVENSON~ 33:US ~31:63/234,447 ~32:18/08/2021

2024/02200 ~ Complete ~54:METHODS OF TREATING SOLID TUMOR USING HETEROAROMATIC MACROCYCLIC ETHER COMPOUNDS ~71:NUVALENT, INC., One Broadway, 14th Floor, Cambridge, Massachusetts, 02142, United States of America ~72: AMIT M DESHPANDE;ANUPONG TANGPEERACHAIKUL;CHRISTOPHER DURANT TURNER;DARLENE NOCI;HENRY EFREM PELISH;JAMES R PORTER;JOHN R SOGLIA;MICHAEL MEYERS~ 33:US ~31:63/251,536 ~32:01/10/2021;33:US ~31:63/357,309 ~32:30/06/2022

2024/02204 ~ Provisional ~54:MULTI TELEVISION PARK MOVIES AND COASTER ROLLS ~71:HILTON BRIAN THOMAS, 309 THORA COURT, KITE STR, HORISON, South Africa ~72: HILTON BRIAN THOMAS~

2024/02112 ~ Provisional ~54:SELF-DRILLING ROCK ANCHOR ~71:RSC MINING (PTY) LTD, 1 Tedstone Drive, South Africa ~72: TBA~

2024/02149 ~ Complete ~54:GASTRIC INHIBITORY PEPTIDE RECEPTOR LIGANDS ~71:3B PHARMACEUTICALS GMBH, Magnusstrasse 11, Germany ~72: Aileen HÖHNE;Anne SCHUMANN;Christian HAASE;Christiane SMERLING;Dirk ZBORALSKI;Eberhard SCHNEIDER;Frank OSTERKAMP;Jan UNGEWISS;Matthias PASCHKE;Ulrich REINEKE~ 33:EP ~31:21204592.6 ~32:25/10/2021

2024/02155 ~ Complete ~54:CERAMIC COMPOSITE FIBER CATALYTIC FILTER PIPE FOR DESULFURIZATION, DENITRATION, AND DIOXIN REMOVAL AND PREPARATION METHOD THEREOF ~71:ZHEJIANG ZHIYUAN ENVIRONMENTAL TECHNOLOGY CO., LTD., Block 1, Block 3, Block 4, Block 5, No.296, Huaye Road, Fengming Street, Tongxiang City, Jiaxing, People's Republic of China ~72: Caifang SHEN;Guodong AN;Guogan DENG;Huilin LI;Jianfa PAN;Jibao ZHU;Lijuan WANG;Qiqi CHU;Shaojun SHI;Xiufeng JIN~ 33:CN ~31:202211507981.X ~32:29/11/2022

2024/02163 ~ Complete ~54:ELECTROCHEMICAL TREATMENT DEVICE ~71:ENSITECH IP PTY LTD, Unit 1, 144 Old Bathurst Road, Australia ~72: WHITE, Clive Stuart~ 33:AU ~31:2021902996 ~32:17/09/2021

2024/02177 ~ Complete ~54:THIOSTREPTON COMPOSITIONS AND PREPARATION THEREOF ~71:RS Oncology, LLC, 1 Broadway, CAMBRIDGE 02142, MA, USA, United States of America ~72: DUNCAN, Jarrett B.;NAUMOV, George N.;OLLÉ, Xavier Pujol;SOROLLA, Lluís Sastre;THOMPSON, Rodney E.;TORRES, Adrià Espinàs~ 33:EP ~31:21382839.5 ~32:17/09/2021

2024/02197 ~ Complete ~54:PHARMACEUTICAL COMPOSITION CONTAINING PEGYLATED EXENATIDE VARIANT AND USE THEREOF ~71:PEGBIO CO., LTD., Suite601, Building B7 Biobay, 218 Xing Hu St., Suzhou Industrial Park, Suzhou, Jiangsu, 215123, People's Republic of China ~72: MICHAEL MIN XU;YINJU HOU~ 33:CN ~31:202111126033.7 ~32:24/09/2021

2024/02153 ~ Complete ~54:LYOPHILISED FORMULATIONS OF MRNA ADSORBED ONTO LIPID NANO-EMULSION PARTICLES. ~71:GENNOVA BIOPHARMACEUTICALS LTD, Chrysalis Block, I.T.B.T. Park, Phase II, MIDC, Hinjawadi, Pune, India ~72: KARDILE, Pavan;KAVIRAJ, Swarnendu;RAUT, Sunil;SINGH, Ajay;SINGH, Sanjay~ 33:IN ~31:202121038492 ~32:25/08/2021

2024/02160 ~ Complete ~54:INDUCIBLE PROMOTER, VECTOR AND HOST CELL BASED THEREON ~71:JOINT STOCK COMPANY "BIOCAD", vn. ter. g. poselok Strelna, ul. Svyazi, d. 38, str. 1, pomeshch. 89, Russian Federation ~72: GORDEEV, Aleksandr Andreevich;KONONOV, Aleksey Vladimirovich;MOROZOV, Dmitry Valentinovich;PUCHKOVA, Mariia Yurievna;SOLOVYEV, Valery Vladimirovich;ZHIRIAKOVA, Mariia Vladimirovna~ 33:RU ~31:2021126254 ~32:07/09/2021

2024/02168 ~ Complete ~54:TENSILE MEMBRANE STRUCTURE BUILDING SYSTEM ~71:TENTHOUSE STRUCTURES (PTY) LTD, 18 Natal Street, Paarden Eiland, South Africa ~72: BEATTIE, Drew;HIGGO, Ryan Vivier;HORN, Sydney Rainer;O'MOLONY, Brendan James~ 33:GB ~31:2114134.6 ~32:01/10/2021

2024/02181 ~ Complete ~54:IMPROVED PERFUME COMPOSITIONS COMPRISING SULFUR-CONTAINING PRO-FRAGRANCE COMPOUNDS ~71:Firmenich SA, 7, rue de la Bergère, SATIGNY 1242, SWITZERLAND, Switzerland ~72: BOIS, Estelle;RASSAT, Estelle;STRUILLOU, Arnaud~ 33:EP ~31:21203749.3 ~32:20/10/2021

2024/02123 ~ Complete ~54:BIOLOGICAL CONTROL DEVICE FOR INSECT PESTS ~71:Inner Mongolia Agricultural University, IMAU, No. 306 Zhaowuda Road, Saihan District, Hohhot City, Inner Mongolia Autonomous Region, 010018, People's Republic of China ~72: Chang Jing;Huo Zhijia;Lei Yuchen;Ma Wenye;Song Baixuan;Wang Qian;Yang Nan~

2024/02130 ~ Complete ~54:SOIL REMEDIATION AGENT AND USING METHOD THEREOF ~71:Dao Mingzhao, No. 53, Mangkai Village Group, Qianying Village Committee, Yongping Town, Jinggu Dai and Yi Autonomous County, Pu'er City, Yunnan Province, 665000, People's Republic of China ~72: Dao Mingzhao~ 33:CN ~31:202310529958.9 ~32:11/05/2023

2024/02137 ~ Complete ~54:STRUCTURE PROTECTION SHEET, EXECUTION METHOD AND PRECAST MEMBER USING STRUCTURE PROTECTION SHEET, AND METHOD FOR MANUFACTURING PRECAST MEMBER ~71:KEIWA INCORPORATED, 10-5, Nihonbashi Kayabacho 2-chome, Chuo-ku, Tokyo, 1030025, Japan ~72: AKIRA NINOMIYA;KENTA SHIMOTANI;MASAKI YOSHIDA;NORIYUKI HORIUCHI;YOSHIKI NAKAJIMA~ 33:JP ~31:2019-132332 ~32:17/07/2019;33:JP ~31:2019-132333 ~32:17/07/2019

2024/02103 ~ Provisional ~54:ELECTRICITY LOAD MANAGEMENT DEVICE ~71:Keith Graham HOLMES, 20 Seeles Road, Monteseel, Inchanga, South Africa ~72: FLEMING, Leslie John;HOLMES, Keith Graham~

2024/02104 ~ Provisional ~54:THE BRACKET SERVES TO LOCK ADJACENT SOLAR PANELS TOGETHER TO PREVENT SOLAR PANEL THEFT. TO THIS END, THE GRIPPING OR HOOKING FORMATIONS OF THE BASE HOOK AROUND A LOWER PERIPHERY OF ADJACENT SOLAR PANEL FRAMES, PREVENTING WITHDRAWAL OF THE FRAMES FROM THE BRACKET. WITH THE SPACER AND TOP BRACKET INSTALLED USING A SHEAR NUT, SEPARATION OF THE SOLAR PANELS IS PREVENTED BY THE BRACKET. THIS MEANS THAT A STRING OF PANELS JOINED TOGETHER USING THE BRACKET CAN ONLY BE STOLEN AS A SINGLE UNIT WHICH MAKES HANDLING AND TRANSPORTATION THEREOF A CHALLENGE. ~71:Shaun Neil Craig, 15 Loeries Lane, Aureole Manor, Northriding, South Africa ~72: Shaun Neil Craig~ 33:ZA ~31:SA20241504601 ~32:14/03/2024

2024/02110 ~ Provisional ~54:NXN MIMO SYSTEM WITH ANTENNA ASSEMBLY ~71:POYNTING ANTENNAS (PTY) LIMITED, Unit 4, N1 Industrial Park, Landmarks Avenue, South Africa ~72: FOURIE, Andre Petrus Cronje~

2024/02157 ~ Complete ~54:A SOLID BIO-PESTICIDAL COMPOSITION COMPRISING OF ELEMENTAL SULPHUR AND AZADIRACTIN ~71:DOSHI, Hiteshkumar Anilkant, 801, Anmol Residency, Opposite Singhanian School, Pokharan Road No. 1, Thane, Maharashtra, 400 606, India;PUTHENVEETIL KUMJUKRISHNA MENON, Ramdas, Flat No.403, Elegant Bldg, Plot No.18-D, Sector 14, Sanpada, Navi Mumbai, Maharashtra, 400705, India ~72: DOSHI, Hiteshkumar Anilkant;PUTHENVEETIL KUMJUKRISHNA MENON, Ramdas~ 33:IN ~31:IN202121029049 ~32:29/06/2021

2024/02165 ~ Complete ~54:BIOFUEL BLENDS ~71:SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., Carel van Bylandtlaan 30, HR The Hague, Netherlands ~72: BALAM, Harish Kumar;CAIAZZO, Aldo;POPE, Michael Richard;SHIOSAKI, Daniel Thomas;VAN DIJK, Nicolaas~ 33:US ~31:63/257,735 ~32:20/10/2021



2024/02176 ~ Complete ~54:METHODS AND APPARATUS FOR DMVR WITH BI-PREDICTION WEIGHTING  
~71:InterDigital CE Patent Holdings, SAS, 3 rue du Colonel Moll, PARIS 75017, FRANCE, France ~72: BORDES,  
Philippe;CHEN, Ya;GALPIN, Franck;LE LEANNEC, Fabrice;ROBERT, Antoine~ 33:EP ~31:21306317.5  
~32:24/09/2021;33:EP ~31:21306874.5 ~32:21/12/2021

2024/02195 ~ Complete ~54:GENE SEQUENCE CONSTRUCT FOR GENE THERAPY OF HUMAN  
IMMUNODEFICIENCY VIRUS INFECTION ~71:KANGLIN BIOTECHNOLOGY (HANGZHOU) CO., LTD., Room  
301, Building No. 4, No. 291, Fucheng Road, Economic And Technological Development Zone, Hangzhou,  
Zhejiang, 310018, People's Republic of China ~72: BAOZHEN SUN;HAOQUAN WU;YING DANG~ 33:CN  
~31:PCT/CN2021/115422 ~32:30/08/2021

2024/02205 ~ Provisional ~54:PAYSAFE BIOMETRIC PAYMENT SYSTEM ~71:Brendan Denis Fernandez, 30  
Ballyclare Drive, South Africa ~72: Brendan Denis Fernandez~

2024/02247 ~ Provisional ~54:DOMESTIC WORKER REWARD APP ~71:Michael Grunyuza, 504 Russells Place  
Sophie De Bruyn, South Africa ~72: Michael Grunyuza~

2024/02124 ~ Complete ~54:MECHANISM FOR BLOWING CHIPS OF NUMERICAL CONTROL MACHINE  
TOOLS ~71:Huanghu (Zhejiang) Precision Machine Tool Co., Ltd., No. 2, 3rd Floor, Exhibition Center, Zhejiang  
Sino-German (Changxing) International Industrial Cooperation Park, No. 1228 Chenwang Road, Changxing  
Economic and Technological Development Zone, Huzhou City, Zhejiang Province, People's Republic of China  
~72: Dong Wei;Huang Wenbo;Lan Zhijun;Zhang Liang~

2024/02131 ~ Complete ~54:A GREEN ENVIRONMENTAL PROTECTION WATER ENVIRONMENT  
TREATMENT EQUIPMENT ~71:Huaqian Mou, No. 830, Binhong West Road, Wucheng District, Jinhua City,  
Zhejiang Province, 321000, People's Republic of China ~72: Huaqian Mou~

2024/02152 ~ Complete ~54:COVERAGE SYSTEM ~71:SPAMER, Hendrik Jacobus Venter, 16 Castle Pine  
Crescent, Silver Lakes Golf Estate, South Africa ~72: SPAMER, Hendrik Jacobus Venter~ 33:ZA  
~31:2021/04268 ~32:22/06/2021;33:ZA ~31:2022/00469 ~32:11/01/2022

2024/02159 ~ Complete ~54:ISOLATED MODIFIED AAV9 CAPSID PROTEIN VP1 ~71:JOINT STOCK  
COMPANY "BIOCAD", vn. ter. g. poselok Strelna, ul. Svyazi, d. 38, str. 1, pomeshch. 89, Russian Federation  
~72: GERSHOVICH, Pavel Mikhailovich;IAKOVLEV, Pavel Andreevich;MOROZOV, Dmitry  
Valentinovich;SHUGAEVA, Tatiana Evgenievna;STRELKOVA, Anna Nikolaevna~ 33:RU ~31:2021124726  
~32:20/08/2021

2024/02167 ~ Complete ~54:SOLID STATE FORMS OF RELUGOLIX ~71:CIPLA LIMITED, Cipla House,  
Peninsula Business Park, Ganpatrao Kadam Marg, Lower Parel, India ~72: CHENNURU, Ramanaiah;DAS,  
Arijit;INDUKURI, Anjaneyaraju;PULLAREDDY, Lakkireddy;TEJA, Pyla Kranthi~ 33:IN ~31:202121041687  
~32:15/09/2021

2024/02182 ~ 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  
~31:2115187.3 ~32:22/10/2021

2024/02185 ~ Complete ~54:FIRE DETECTION AND WARNING SYSTEMS, DEVICES, AND METHODS FOR  
KITCHEN VENTILATION ~71:Oy Halton Group Ltd., Firdonkatu 2 T 146, Tripla - Workery West, HELSINKI  
00520, FINLAND, Finland ~72: LATHAM, Jacob;LIVCHAK, Andrey V.;SANDUSKY, Jimmy~ 33:US  
~31:63/251,274 ~32:01/10/2021

2024/02128 ~ Complete ~54:PREPARATION METHOD OF BRASSICA RAPA L. CRUDE POLYSACCHARIDE AND ITS APPLICATION IN ALLEVIATING INTESTINAL DAMAGE CAUSED BY PLATEAU HYPOXIA ~71:LANZHOU UNIVERSITY, No. 222 South Tianshui Road, Lanzhou, People's Republic of China ~72: HUANG, Xiaodan;LI, Bin;LI, Diantong;LIU, Wei;NIU, Yuanlin~ 33:CN ~31:2024101929930 ~32:21/02/2024

2024/02150 ~ Complete ~54:SURFACE PREPARATION FOR JVD ~71:ARCELORMITTAL, 24-26, Boulevard d'Avranches, Luxembourg ~72: Daniel CHALEIX;Fabrice LAFFINEUR;Vincent RUWET;Véronique HEBERT~ 33:IB ~31:PCT/IB2021/059600 ~32:19/10/2021

2024/02171 ~ Complete ~54:REEF CUTTING MACHINE ~71:AFRICAN RAINBOW MINERALS PLATINUM (PTY) LTD., ARM House, 29 Impala Road, CHISLEHURSTON, Sandton, Johannesburg 2196, Gauteng, SOUTH AFRICA, South Africa ~72: CROUS, Izak Abram;GOODWIN, Nicolaas Bodenstein;JORDAAN, Barend Jacobus;PRETORIUS, Gerhard;WANNENBURG, Louis~ 33:ZA ~31:2021/05907 ~32:18/08/2021

2024/02178 ~ Complete ~54:3CLPRO PROTEASE INHIBITOR ~71:Qilu Animal Health Products Co., Ltd., No. 10688, Wenliang Road, Dongjia Town, Licheng District, JINAN 250105, SHANDONG, CHINA (P.R.C.), People's Republic of China;Shanghai Qilu Pharmaceutical Research and Development Centre Ltd., Building 1, No. 576 Li Bing Road, No. 56 Faraday Road, Pilot Free Trade Zone, SHANGHAI 201203, PUDONG NEW AREA, CHINA (P.R.C.), People's Republic of China ~72: CHENG, Cang;CHI, Bo;SUN, Daqing;WANG, Junfei~ 33:CN ~31:202111044417.4 ~32:07/09/2021;33:CN ~31:202111226591.0 ~32:21/10/2021;33:CN ~31:202111470155.8 ~32:03/12/2021;33:CN ~31:202111674718.5 ~32:31/12/2021;33:CN ~31:202211031927.2 ~32:26/08/2022

2024/02188 ~ Complete ~54:SOLID FORMS, PHARMACEUTICAL COMPOSITIONS AND PREPARATION OF HETEROAROMATIC MACROCYCLIC ETHER COMPOUNDS ~71:NUVALENT, INC., One Broadway, 14th Floor, Cambridge, Massachusetts, 02142, United States of America ~72: BAUDOUIN GERARD;BENJAMIN STEPHEN LANE;CHRISTOPHER COOPER G. F.;DAVID JAMES PEARSON;JASON T KROPP;JOSHUA COURTNEY HORAN;SIBAO CHEN~ 33:US ~31:63/251,514 ~32:01/10/2021

2024/02201 ~ Complete ~54:GREASELESS CORE BARREL HEAD ASSEMBLY ~71:BOART LONGYEAR COMPANY, 2455 South 3600 West, Salt Lake City, United States of America ~72: DRENTH, Christopher L.~ 33:US ~31:63/236,108 ~32:23/08/2021

2024/02111 ~ Provisional ~54:SUPPRESSANT SYSTEM AND NOZZLE ~71:FIRE AND SECURITY TECHNIQUES (PTY) LTD, Unit 7, Flintstone Park, Gateway Industrial Park, 42 Sarel Baard Road, South Africa ~72: HUGHES, Niel William~

2024/02147 ~ Complete ~54:COLD ROLLED AND HEAT TREATED STEEL SHEET AND A METHOD OF MANUFACTURING THEREOF ~71:ARCELORMITTAL, 24-26, Boulevard d'Avranches, Luxembourg ~72: Arunim RAY;Rénald DAVID;Tom WATERSCHOOT~

2024/02187 ~ Complete ~54:VEHICLE MONITORING SYSTEM ~71:YAZAKI CORPORATION, 8-15, Konan 1-Chome, Minato-ku, Tokyo, 1080075, Japan ~72: KOSUKE KOGO;MUNEHICO KAWAMOTO;YOUHEI MANABE~ 33:JP ~31:2021-170277 ~32:18/10/2021

2024/02194 ~ Complete ~54:METHOD FOR PRODUCING MOTOR FUEL FROM ETHANOL ~71:SWEDISH BIOFUELS AB, Box 12276, 102 27, Stockholm, Sweden ~72: IGOR GOLOUBKOV~ 33:EP ~31:21194166.1 ~32:31/08/2021;33:SE ~31:2151091-2 ~32:31/08/2021

2024/02125 ~ Complete ~54:ARTIFICIAL INTELLIGENCE-BASED EMPLOYEE EFFICIENCY MONITORING SYSTEM ~71:Dr. Raj Sinha, Assistant Professor, Domain: System and Architecture School of Computer

Application, Lovely Professional University, Punjab, India;Dr. Sweta, A.N. College, Patna, Bihar, India ~72: Dr. Raj Sinha;Dr. Sweta~

2024/02106 ~ Provisional ~54:DYNAMIC AIRSPRING SUSPENSION SYSTEM WITH ELECTRONIC PRESSURE REGULATOR CONTROL FOR PREVENTING OVERLOADING AND ENHANCING VEHICLE EFFICIENCY ~71:JHC Smit, 76 Dahlia street, Lindo Park, South Africa ~72: JHC Smit;JHC Smit~ 33:ZA ~31:16032024 ~32:16/03/2024

2024/02133 ~ Complete ~54:APPLICATION OF EXTERNALLY APPLYING THIAMINE IN IMPROVING DROUGHT RESISTANCE OF GOSSYPIUM HIRSUTUM AT SEEDLING STAGE AND FIELD ~71:Huazhong Agricultural University, No.1, Shizishan Street, Hongshan District, Wuhan, Hubei Province, 430070, People's Republic of China ~72: RONG, Yuxuan;SUN, Simin;WANG, Yuxin;XIA, Linjie;YANG, Xiyan;YU, Yu;ZHANG, Xianlong;ZHU, Longfu~

2024/02173 ~ Complete ~54:ANTI-VEGFR1 ANTIBODIES AND THEIR USES ~71:Janssen Biotech, Inc., 800/850 Ridgeview Drive, HORSHAM 19044, PA, USA, United States of America ~72: BREYER, Matthew D.;GONZALEZ VILLALOBOS, Romer A.;LI, Jingjun;RUTKOSKI, Thomas J.;SWANSON, Ronald V.;ZHENG, Gang;ZHENG, Songmao;ZHENG, Xirong~ 33:US ~31:63/233,343 ~32:16/08/2021;33:US ~31:63/322,273 ~32:22/03/2022

2024/02184 ~ Complete ~54:MICROENCAPSULATION ~71:Syngenta Crop Protection AG, Rosentalstrasse 67, BASEL 4058, SWITZERLAND, Switzerland ~72: LINDSAY, Christopher Ian;TAYLOR, Philip~ 33:GB ~31:2114759.0 ~32:15/10/2021

2024/02198 ~ Complete ~54:OPTIMIZED MULTABODY CONSTRUCTS, COMPOSITIONS, AND METHODS ~71:RADIANT BIOTHERAPEUTICS INC., 12350 - 3 Place Ville-Marie Montreal, Quebec, H03B 0E7, Canada;THE HOSPITAL FOR SICK CHILDREN, 555 University Avenue, Toronto, Ontario, M5G 1X8, Canada ~72: EDURNE RUJAS DIEZ;JEAN-PHILLIPE JULIEN;JOANNE HULME;MELISSA BEILSCHMIDT;PETER EDWARD BAYLISS;XINWEN HE~ 33:US ~31:63/243,402 ~32:13/09/2021

2024/02203 ~ Provisional ~54:A MEDITATION MONITORING DEVICE ~71:KABELO DIALE, 7 COMET STREET, HELDERKRUIJN, South Africa ~72: KABELO DIALE~

2024/02132 ~ Complete ~54:CHIMERIC ANTIGEN RECEPTORS WITH BCMA SPECIFICITY AND USES THEREOF ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: BRAY, Kevin;DELFINO, Frank;DILILLO, David;KIRSHNER, Jessica;MEAGHER, Thomas, Craig;SINESHCHEKOVA, Olga~ 33:US ~31:62/700,615 ~32:19/07/2018

2024/02138 ~ Complete ~54:HETEROCYCLIC CARBOXYLATE COMPOUNDS AS GLYCOLATE OXIDASE INHIBITORS ~71:LILAC THERAPEUTICS, INC., 2121 North California Blvd, Suite 290 Walnut Creek, California, 94596, United States of America ~72: AMY S LEE;AURPON W MITRA;DEVLEENA M SHIVAKUMAR;HONGYAN GUO;HYUNG-JUNG PYUN;JOHN E KNOX;JULIAN A CODELLI;LIANHONG XU;MANOJ C DESAI;ZACHARY ER NEWBY~ 33:US ~31:62/929,476 ~32:01/11/2019;33:US ~31:63/093,094 ~32:16/10/2020

2024/02161 ~ Complete ~54:BISPECIFIC ANTIBODY COMPRISING A HETERODIMER BASED ON MHC PROTEINS ~71:JOINT STOCK COMPANY "BIOCAD", vn. ter. g. poselok Strelna, ul. Svyazi, d. 38, str. 1, pomeshch. 89, Russian Federation ~72: BARANOVSKAIA, Marianna Dmitrievna;DANILOV, Maksim Andreevich;GURINA, Natalia Nikolaevna;IAKOVLEV, Pavel Andreevich;KRAT, Sergei Mikhailovich;LEGOTSKII, Sergei Aleksandrovich;MATIUKHINA, Natalia Mikhailovna;MOROZOV, Dmitry Valentinovich;NAZARENKO, Olga Viktorovna;POLIAKOV, Dmitrii Nikolaevich;TOPORKOVA, Kseniia Aleksandrovna;VALIAKHMETOVA, Elvira Raisovna~ 33:RU ~31:2021126369 ~32:08/09/2021

2024/02169 ~ Complete ~54:TREATMENT OF IMMUNE CHECKPOINT INHIBITOR-TREATED CANCERS WITH HIGH EGFR EXPRESSION USING AN ANTIBODY THAT BINDS AT LEAST EGFR ~71:MERUS N.V., Uppsalalaan 17, 3e en 4e verdieping, Netherlands ~72: LAMMERTS VAN BUEREN, Jeroen Jilles;WASSERMAN, Ernesto Isaac~ 33:NL ~31:2029327 ~32:06/10/2021

2024/02180 ~ Complete ~54:ANTI-TRANSFERRIN RECEPTOR ANTIBODIES AND USES THEREOF ~71:Biogen MA Inc., 225 Binney Street, CAMBRIDGE 02142, MA, USA, United States of America ~72: CAMERON, Thomas O.;DALKILIC-LIDDLE, Isin;HANF, Karl J.M;PEPINSKY, R. Blake;QIAN, Fang;SMITH, Benjamin A.~ 33:US ~31:63/239,630 ~32:01/09/2021;33:US ~31:63/388,088 ~32:11/07/2022

2024/02186 ~ Complete ~54:A KIND OF LIGHT-BLOCKING THREE-LITER BAG ~71:SEVENTH PEOPLE'S HOSPITAL OF SHANGHAI UNIVERSITY OF TCM, 358 Datong Road, Pudong New Area, Shanghai, 200137, People's Republic of China ~72: LIN QIU;YONGMEI JIN~

2024/02105 ~ Provisional ~54:MOTOR/GENERATOR WITH AXIALLY ARRANGED PHASES ~71:IGNJATOVIC, Dragan, 4A Leentjiesklip Crescent, Waterfront, LANGEBAAN 7357, Western Cape, SOUTH AFRICA, South Africa ~72: IGNJATOVIC, Dragan~

2024/02109 ~ Provisional ~54:FLOATING BARRIER ~71:COCHRANE STEEL PRODUCTS (PTY) LTD, 125 Fitter Road, Spartan, South Africa ~72: TBA~

2024/02139 ~ Complete ~54:WATERPROOF AND FLAME-RETARDANT OPTICAL CABLE JACKET MATERIAL MASTERBATCH AND PREPARATION METHOD THEREOF ~71:HANGZHOU KEJIA NEW MATERIALS CO., LTD., No.8, Qingyun Village, Taihuyuan Town, Lin'An District, Hangzhou, Zhejiang, 311300, People's Republic of China ~72: DONG FANG;JIAJUN FAN;LIANGJUN SHU~ 33:CN ~31:202310293215.6 ~32:24/03/2023

2024/02148 ~ Complete ~54:VAPOUR NOZZLE FOR PVD ~71:ARCELORMITTAL, 24-26, Boulevard d'Avranches, Luxembourg ~72: Océane GILLET;Sergio PACE;Vincent RUWET~ 33:IB ~31:PCT/IB2021/059432 ~32:14/10/2021

2024/02156 ~ Complete ~54:METHOD OF OBTAINING A MODIFIED ADENO-ASSOCIATED VIRUS CAPSID ~71:JOINT STOCK COMPANY "BIOCAD", vn. ter. g. poselok Strelna, ul. Svyazi, d. 38, str. 1, pomesch. 89, Russian Federation ~72: GERSHOVICH, Pavel Mikhailovich;IAKOVLEV, Pavel Andreevich;LEGOTSKII, Sergei Aleksandrovich;MOROZOV, Dmitry Valentinovich;NADOLINSKII, Alexandr Anatolevich;SHUGAEVA, Tatiana Evgenievna;STRELKOVA, Anna Nikolaevna~ 33:RU ~31:2021124731 ~32:20/08/2021

2024/02164 ~ Complete ~54:BIOFUEL BLENDS WITH IMPROVED OXIDATION STABILITY AND LUBRICITY ~71:SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., Carel van Bylandtlaan 30, HR The Hague, Netherlands ~72: BALAM, Harish Kumar;CAIAZZO, Aldo;DE JONGE, Diederik Mattheus Antonius;VAN DIJK, Nicolaas~ 33:US ~31:63/257,748 ~32:20/10/2021

2024/02172 ~ Complete ~54:METHODS FOR PRODUCING SECURITY FEATURES EXHIBITING ONE OR MORE INDICIA ~71:SICPA HOLDING SA, Avenue de Florissant 41, PRILLY 1008, SWITZERLAND, Switzerland ~72: MARTINI, Thibaut;PITTET, Hervé;RUGGERONE, Riccardo;VEYA, Patrick~ 33:EP ~31:21192247.1 ~32:19/08/2021

2024/02175 ~ Complete ~54:DIROXIMEL FUMARATE PARTICLES HAVING IMPROVED FLOW PROPERTIES AND METHODS OF MAKING SAME ~71:Biogen MA Inc., 225 Binney Street, CAMBRIDGE 02142, MA, USA, United States of America ~72: CHEN, Liang;IRDAM, Erwin;KWOK, Daw-long Albert;MADDEN, Nicole;MASCHO, John~ 33:US ~31:63/245,476 ~32:17/09/2021;33:US ~31:63/357,130 ~32:30/06/2022

2024/02196 ~ Complete ~54:CELL DEATH-INDUCING DFFA-LIKE EFFECTOR B (CIDEB) IRNA COMPOSITIONS AND METHODS OF USE THEREOF ~71:ALNYLAM PHARMACEUTICALS, INC., 675 West Kendall Street, Henri A. Termeer Square, Cambridge, Massachusetts, 02142, United States of America ~72: ADAM CASTORENO;DHAVAL OZA;JAMES D MCININCH;JEFFREY ZUBER;LUCAS BONDURANT;MARK K SCHLEGEL~ 33:US ~31:63/239,271 ~32:31/08/2021;33:US ~31:63/341,848 ~32:13/05/2022

2024/02202 ~ Provisional ~54:MOBILE AND SMART WATCH PAYMENT SYSTEM FOR TUCK SHOPS, LOCAL SPAZA SHOPS AND TRANSPORT SECTOR (BUSSES, BOLT, UBER AND TAXI) ~71:Boipelo Nelly Motshabi, 2910, UNIT 9 GA RANKUWA, South Africa ~72: BOIPELO NELLY MOTSHABI~

2024/02129 ~ Complete ~54:ADSORPTION AND EXTRACTION DEVICE FOR COMPONENT SEPARATION OF EUCOMMIA ULMOIDES LEAVES EXTRACT ~71:Gansu Agricultural University, No. 1 Yingmen village, Anning District, Lanzhou, Gansu Province, 730070, People's Republic of China ~72: Chen Li;Duan Yongxia;He Wanhong;Yao Wanling;Zhang Jianchun;Zhang Wangdong~ 33:CN ~31:202420010621.7 ~32:03/01/2024

2024/02136 ~ Complete ~54:NOVEL IRRIGATION DEVICE FOR IMPROVING DROUGHT RESISTANCE OF CORN CROPS ~71:Institute of Grain Crops, Xinjiang Academy of Agricultural Sciences, No. 403 Nanchang Road, Shayibak District, Urumqi City, Xinjiang Province, 830091, People's Republic of China ~72: Li Dong;Liu Cheng;Tang Huaijun;Wang Yejian;Xie Xiaoqing;Zhang Lei~

2024/02158 ~ Complete ~54:ISOLATED MODIFIED AAV5 CAPSID PROTEIN VP1 ~71:JOINT STOCK COMPANY "BIOCAD", vn. ter. g. poselok Strelna, ul. Svyazi, d. 38, str. 1, pomesch. 89, Russian Federation ~72: GERSHOVICH, Pavel Mikhailovich;IAKOVLEV, Pavel Andreevich;LEGOTSKII, Sergei Aleksandrovich;MOROZOV, Dmitry Valentinovich;PEREPELKINA, Mariya Pavlovna;PROKOFYEV, Alexander Vladimirovich;SHUGAEVA, Tatiana Evgenievna;STRELKOVA, Anna Nikolaevna~ 33:RU ~31:2021124727 ~32:20/08/2021

2024/02166 ~ Complete ~54:MONITORING SLUDGE DEWATERING ~71:SNF GROUP, ZAC de Milieux, France ~72: DOWD, Andrew;SCHROETER, Russel~ 33:AU ~31:2021903023 ~32:20/09/2021

2024/02174 ~ Complete ~54:DRY POWDER MEDICAMENT INHALER ~71:Norton (Waterford) Limited, Unit 301 IDA Industrial Park, Cork Road, WATERFORD X91 WK68, IRELAND, Ireland ~72: BUCK, Daniel;CROWLEY, Peter John;GOTTESMAN, Josh;HAZENBERG, Jan Geert~ 33:GB ~31:2113921.7 ~32:29/09/2021;33:GB ~31:2200986.4 ~32:26/01/2022

2024/02183 ~ Complete ~54:TRIPLE-AGENT THERAPY FOR CANCER TREATMENT ~71:Cytometric Therapeutics, Inc., 850 New Burton Road, Suite 201, Dover, DELAWARE 19904, USA, United States of America ~72: GRACE, William;WEISENTHAL, Larry~ 33:US ~31:63/244,412 ~32:15/09/2021

2024/02191 ~ Complete ~54:KNOB AND KEY-ACTUATED DOUBLE CYLINDER LOCK ~71:MUL-T-LOCK TECHNOLOGIES LTD., PO Box 637, 8110400, Yavne, Israel ~72: EFFI BEN-AHARON;EYAL MORSKY~ 33:IL ~31:287340 ~32:17/10/2021

2024/02199 ~ Complete ~54:DR5-TARGETING MULTABODIES FOR THE TREATMENT OF CANCER ~71:RADIANT BIOTHERAPEUTICS INC., 12350 - 3 Place Ville-Marie Montreal, Quebec, H03B 0E7, Canada;THE HOSPITAL FOR SICK CHILDREN, 555 University Avenue, Toronto, Ontario, M5G 1X8, Canada ~72: EDURNE RUJAS DIEZ;JEAN-PHILIPPE JULIEN;JOANNE HULME;MELISSA BEILSCHMIDT;PETER EDWARD BAYLISS;XINWEN HE~ 33:US ~31:63/243,372 ~32:13/09/2021

- APPLIED ON 2024/03/19 -



2024/02213 ~ Complete ~54:ELECTRO-HYDRAULIC VARIABLE VALVE TIMING ACTUATOR CAPABLE OF ACHIEVING SEATING BUFFERING AND ACTUATION METHOD THEREFOR ~71:Harbin Engineering University, No. 145, Nantong Street, Nangang District, Harbin City, Heilongjiang Province, 150000, People's Republic of China ~72: LU, Yong;ZHOU, Gongjie~ 33:CN ~31:2023111910531 ~32:15/09/2023

2024/02217 ~ Complete ~54:FLEXIBLE SEED EXTENSION FOR HASH TABLE GENOMIC MAPPING ~71:ILLUMINA, INC., 5200 Illumina Way, United States of America ~72: RUEHLE, Michael~ 33:US ~31:62/852,965 ~32:24/05/2019

2024/02222 ~ Complete ~54:BACULOVIRUS EXPRESSION SYSTEM ~71:BIOVERATIV THERAPEUTICS INC., 225 Second Avenue, Waltham, Massachusetts, United States of America ~72: LIU, Tongyao;MAGHODIA, Ajay;ZAKAS, Philip~ 33:US ~31:PCT/US2021/047218 ~32:23/08/2021;33:US ~31:63/310,038 ~32:14/02/2022

2024/02230 ~ Complete ~54:METHOD AND APPARATUS FOR PRODUCTION OF LEAD-212 ISOTOPE ~71:ABBASI, Ali A., 18 West 132nd Street, Apt. 7, United States of America ~72: ABBASI, Ali A.~ 33:US ~31:63/241,610 ~32:08/09/2021;33:US ~31:17/506,379 ~32:20/10/2021

2024/02236 ~ Complete ~54:METHOD AND DEVICE FOR INSPECTING EGGS CONTACTLESSLY ~71:Egg-Chick Automated Technologies, Rue Alfred Nobel, Zone Industrielle du Vern, LANDIVISIAU 29400, FRANCE, France ~72: BERIER, Frédéric;REVOIS, Hugo;TRUBUIL, Laura~ 33:FR ~31:2109994 ~32:22/09/2021

2024/02243 ~ Complete ~54:USE OF EZH2 INHIBITOR IN PREPARATION OF DRUG FOR TREATING T-CELL LYMPHOMA ~71:JIANGSU HENGRUI PHARMACEUTICALS CO., LTD., No.7 Kunlunshan Road, Economic and Technological Development Zone, Lianyungang, Jiangsu, 222047, People's Republic of China ~72: WEIWEI WANG;XIAOJING ZHANG~ 33:CN ~31:202111001663.1 ~32:30/08/2021

2024/02246 ~ Complete ~54:COATING OR SURFACE TREATMENT METHOD, SUBSTRATE AND APPARATUS ~71:FEPOD OY LTD, c/o Terkko Health Hub Building 14, Haartmaninkatu 4, Helsinki, 00290, Finland ~72: NIKLAS WESTER~ 33:FI ~31:20227043 ~32:01/04/2022

2024/02209 ~ Complete ~54:BALLISTIC RANGE SPACE REFERENCE CALIBRATION SYSTEM BASED ON THREE-POINT COORDINATE MEASUREMENT ~71:Nanjing University of Science and Technology, No. 200, Xiaolingwei, Xuanwu District, Nanjing City, Jiangsu Province, 210094, People's Republic of China ~72: WANG, Wei~

2024/02214 ~ Complete ~54:SPUTUM SUCTION DEVICE FOR RESPIRATORY MEDICINE DEPARTMENT ~71:Yichang Central People's Hospital (First Clinical Medical College of Three Gorges University, Central People's Hospital Affiliated to Three Gorges University), No. 183, Yiling Avenue, Yichang, Hubei, People's Republic of China ~72: Lingyun Zhang~

2024/02221 ~ Complete ~54:COMPOUNDS TARGETING PMP22 FOR THE TREATMENT OF CHARCOT-MARIE-TOOTH DISEASE ~71:NOVARTIS AG, Lichtstrasse 35, Switzerland ~72: ALLERSON, Charles;SUCKOW, Arthur T.~ 33:US ~31:63/280,773 ~32:18/11/2021

2024/02229 ~ Complete ~54:METHOD OF DETECTING AND IDENTIFYING A MICROORGANISM ~71:UNIVERSITY OF CAPE TOWN, Lovers Walk, Rondebosch, South Africa ~72: BLACKBURN, Jonathan Michael;HENDRICKS-LEUKES, Nicolette Rebecca~ 33:GB ~31:2112132.2 ~32:24/08/2021

2024/02237 ~ Complete ~54:SYSTEM AND METHOD FOR SHAPING A DUCT SECTION ~71:PLASTIQUES G PLUS INC., 180 rue d'Evain, Rouyn-Noranda, Canada ~72: GAGNON, Dan~ 33:CA ~31:3,148,677 ~32:14/02/2022

2024/02244 ~ Complete ~54:DETERGENT COMPOSITIONS ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: DAVID CHRISTOPHER THORLEY;DAVID STEPHEN GRAINGER;NEIL STEPHEN BURNHAM~ 33:EP ~31:21203922.6 ~32:21/10/2021;33:EP ~31:21203927.5 ~32:21/10/2021;33:EP ~31:21203931.7 ~32:21/10/2021

2024/02208 ~ Provisional ~54:ARMED GLASS PANES WITH STEALTH ALLUMINIUM WINDOW FRAMES DESIGN ~71:Marius de Wet de Villiers, 1 Hoog street, Dalsig, South Africa ~72: Marius de Wet de Villiers~

2024/02218 ~ Complete ~54:DRAUGHT-PROOF WATERING EQUIPMENT FOR CORN ~71:Xinjiang Academy of Agricultural Sciences Grain Crops Research Institute, No. 403, Nanchang Road, Sayibak District, Urumqi, Xinjiang, People's Republic of China ~72: Cheng Liu;Dong Li;Huaijun Tang;Lei Zhang;Xiaoqing Xie;Yejian Wang~

2024/02223 ~ Complete ~54:ROTARY REGENERATIVE MACHINE STRUCTURE ~71:ARVOS LJUNGSTROM LLC, 3020 Truax Road, United States of America ~72: ANTES, Mark, S.;FULLER, Nicholas, A.;STARKS, William, J.~ 33:US ~31:63/341,785 ~32:13/05/2022

2024/02227 ~ Complete ~54:CONSTRUCTION SEWAGE TREATMENT DEVICE ~71:CHUZHOU INSTITUTE OF VOCATIONAL TECHNOLOGY, 2188 Fengle Avenue, Chuzhou, Anhui, 239000, People's Republic of China ~72: DONG Bo;DONG Zhirui;XU Zouying;ZHANG Guofu;ZHANG Rui;ZHU Yongxiang~ 33:CN ~31:202210968806.4 ~32:12/08/2022

2024/02233 ~ Complete ~54:ACTIVE INGREDIENT DELIVERY SYSTEM ~71:Opes Corporation Oy, Kappelikuja 6 B, ESPOO 02200, FINLAND, Finland ~72: JÄRVENPÄÄ, Janne~ 33:US ~31:63/246,089 ~32:20/09/2021

2024/02239 ~ Complete ~54:IRAK4 DEGRADATION AGENT, AND PREPARATION METHOD THEREFOR AND USE THEREOF ~71:SHANGHAI LEADINGTAC PHARMACEUTICAL CO., LTD., Room 501, 781 Cai Lun Road, China (Shanghai) Pilot Free Trade Zone, Shanghai, 201203, People's Republic of China ~72: SHIQIANG LI;YAN FENG;ZHENGQING YE~ 33:CN ~31:202110966608.X ~32:23/08/2021;33:CN ~31:202210558158.5 ~32:19/05/2022;33:CN ~31:202210989448.5 ~32:17/08/2022

2024/02245 ~ Complete ~54:OPTICALLY TRANSPARENT MICROELECTRODE ARRAYS FOR ELECTROCHEMICAL AND ELECTROPHYSIOLOGICAL MEASUREMENTS OR STIMULATION ~71:FEPOD OY LTD, c/o Terkko Health Hub Building 14, Haartmaninkatu 4, Helsinki, 00290, Finland ~72: NIKLAS WESTER;SAMUEL RANTATARO;TOMI LAURILA~ 33:FI ~31:20227044 ~32:01/04/2022

2024/02211 ~ Complete ~54:COMPREHENSIVE PEST PREVENTION AND CONTROL METHOD FOR CHESTNUT ~71:Mount Taishan Forest Pest Control and Quarantine Station, Tai'an City, No.47 Hongmen Road, Tai'an City, Shandong Province, People's Republic of China;Shandong Agricultural University, No.61 Daizong Street, Tai'an City, Shandong Province, People's Republic of China ~72: JIA Chunyan;LI Kun;MA Shencheng;SHEN Weixing;SUN Xiaoli;WANG Ying;XIANG Yingying~

2024/02215 ~ Complete ~54:AN ELECTROCHEMICAL BIOSENSOR BASED ON CONDUCTIVE POLYMER COATED GLUCOSE OXIDASE NANOCAPSULES AND A PREPARATION AND APPLICATION THEREOF ~71:Hunan University of Technology, No. 88, Taishan West Road, Tianyuan District, Zhuzhou, Hunan, People's Republic of China ~72: Chao Ge;Jie Huang;Jinghua Tan;Min Liu;Renjie Li;Xueyuan Liu;Yiwu Liu;Yue Chen~

2024/02220 ~ Complete ~54:A PATENT EVALUATION SYSTEM BASED ON BIG DATA ANALYSIS ~71:Huainan Normal University, Dongshan West Road, Tianjia'an District, Huainan City, Anhui Province, 232038, People's Republic of China ~72: Aijun Li;Chuanliang Wu;Chun Fang;Yamin Du;Yanfen Li~

2024/02225 ~ Complete ~54:DIE-CAST ALUMINUM ALLOY FOR NEW ENERGY VEHICLE AND MANUFACTURING METHOD THEREFOR ~71:An hui Krant Aluminum Products Co., Ltd, No.12 Guohua Road, Guangde Economic Development Zone, Xuancheng, Anhui, 242200, People's Republic of China ~72: PAN, Zutang;WANG, Xu;XIANG, Hua;XIONG, Maoqing;ZHANG, Xiong~ 33:CN ~31:2023108253089 ~32:06/07/2023

2024/02228 ~ Complete ~54:COPPER-STEEL COMBINED MOLD ~71:GUANGDONG HUAXING HEAT EXCHANGE EQUIPMENT CO., LTD., Xiafushan Village, Qiandong Town, Raoping County chaozhou, Guangdong, 515726, People's Republic of China;RAOPING YUEXING COPPER PROCESSING CO., LTD., Shangfushan Development Zone, Raoping County Chaozhou, Guangdong, 515726, People's Republic of China;SHANTOU HUAXING METALLURGICAL EQUIPMENT CO., LTD., Rongsheng Science Zone, Daxue Road, Jinping District Shantou, Guangdong, 515000, People's Republic of China;SHANTOU HUAXING(RAOPING)COPPER INDUSTRIAL CO., LTD., Shayuan Development Zone, Shangfushan Village, Qiandong Town, Raoping County Chaozhou, Guangdong, 515726, People's Republic of China ~72: CHEN, Ziling;LI, Lihong;LI, Xibo;SHE, Jingpeng;WU, Yuan~ 33:CN ~31:202122319061.2 ~32:24/09/2021

2024/02234 ~ Complete ~54:AEROSOL PROVISION DEVICE ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: HAINES, Richard;XIAO, Zhihuang;YILMAZ, Ugurhan~ 33:GB ~31:2113410.1 ~32:20/09/2021

2024/02241 ~ Complete ~54:VENTILATION SYSTEM WITH IMPROVED VALVING ~71:RYAN REDFORD, 111 Stellar, Irvine, California, 92618, United States of America ~72: RYAN REDFORD~ 33:US ~31:63/240,298 ~32:02/09/2021

2024/02210 ~ Complete ~54:BIG-DATA-BASED RECOMMENDATION SYSTEM FOR CULTURAL AND CREATIVE WORKS ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467041, People's Republic of China ~72: JIA, Faxian;LAN, Na;LIU, Jiahuan;LONG, Dan;YU, Huixia;ZHANG, Zhifan~

2024/02216 ~ Complete ~54:A METHOD AND APPLICATION FOR THE DEVELOPMENT OF SNP MOLECULAR MARKERS RELATED TO GRAPE FRUIT CRACKING TRAITS ~71:Xinjiang Academy of Agricultural Sciences Horticulture Crop Research Institute, No. 403, Nanchang Road, Sayibak District, Urumqi, Xinjiang, People's Republic of China ~72: Chuan Zhang;Fuchun Zhang;Haixia Zhong;Jiuyun Wu;Min Wang;Shouan Han;Songlin Zhang;Wen Zhang;Xiaoming Zhou;Xinyu Wu~ 33:CN ~31:2023115698424 ~32:23/11/2023

2024/02219 ~ Complete ~54:MINIMALLY INVASIVE SAMPLING DEVICE CAPABLE OF LOCATING GYNECOLOGICAL TUMOR ~71:Changzhou Maternal and Child Health Care Hospital, No.16 Dingxiang Road, Changzhou City, Jiangsu Province, 213000, People's Republic of China ~72: Guo Ziyi;Sun Liying;Wang Li;Yang Di~

2024/02226 ~ Complete ~54:METHOD AND SYSTEM FOR AUTOMATICALLY DETECTING AND RECONSTRUCTING SPECTRUM PEAKS IN NEAR INFRARED SPECTRUM ANALYSIS OF TEA ~71:Anhui University, No.111 Jiulong Road, Hefei City, Anhui Province, People's Republic of China ~72: CHEN Qi;CHEN Shan;FAN Yuan;PAN Tianhong;WU Chao~ 33:CN ~31:2021115261095 ~32:14/12/2021

2024/02231 ~ Complete ~54:PHOTOLUMINESCENT SECURITY INK FOR CONTINUOUS INK-JET PRINTING ~71:SICPA HOLDING SA, Avenue de Florissant 41, PRILLY 1008, SWITZERLAND, Switzerland ~72: BAILLEUL, Mickael;CARTESIO, Salvatore;LAPORTE, Cécile;PHILIPPON, Pierre-Sylvain;RUGGERONE, Riccardo~ 33:EP ~31:21192480.8 ~32:20/08/2021

2024/02235 ~ Complete ~54:MULTI-WELL GEOTHERMAL SYPHONING SYSTEM ~71:Good Water Energy Ltd, 32A Second Avenue, Claremont, 6010, WESTERN, AUSTRALIA, Australia ~72: STRANGE, Warren Ross~ 33:AU ~31:2021106085 ~32:20/08/2021;33:AU ~31:2021902611 ~32:20/08/2021

2024/02240 ~ Complete ~54:REINFORCED CORE MATERIAL FOR FAN BLADE AND PREPARATION METHOD THEREFOR ~71:ENVISION ENERGY CO., LTD, No.3 Shenzhuang Road, Shengang Street, Jiangyin Wuxi, Jiangsu, 214443, People's Republic of China ~72: GANG XU;HAO MA;JIANJUN SUI;JIANXU SUN;JINGJING ZHANG;XIANGYANG ZHANG~

2024/02207 ~ Provisional ~54:MULTI PURPOSE SOLAR PV STRUCTURE WITH FULLY ASSEMBLED SUBSYSTEMS ~71:Kabuya Mulumba Randy, Kyalami Hills, South Africa ~72: Kabuya Mulumba Randy~

2024/02212 ~ Complete ~54:VEHICLE ACCESSORY PROCESSING DEVICE ~71:Jinling Institute of Technology, No. 99, Hongjing Avenue, Jiangning District, Nanjing City, Jiangsu, People's Republic of China ~72: WANG, Haiqiao~ 33:CN ~31:2023118434112 ~32:29/12/2023

2024/02224 ~ Complete ~54:COLD ROLLED AND HEAT TREATED STEEL SHEET AND A METHOD OF MANUFACTURING THEREOF ~71:ARCELOMITTAL, 24-26, Boulevard d'Avranches, Luxembourg ~72: Brian LIN;Damon PANAH;Hyojin SONG;Venkata Sai Ananth CHALLA~

2024/02232 ~ Complete ~54:DOSING REGIMENS ASSOCIATED WITH EXTENDED RELEASE PALIPERIDONE INJECTABLE FORMULATIONS ~71:Janssen Pharmaceutica NV, Turnhoutseweg 30, BEERSE 2340, BELGIUM, Belgium ~72: GOPAL, Srihari;LOUIE, John;MILZ, Ruth;NAJARIAN, Dean;SANGA, Panna;WANG, Steven~ 33:US ~31:63/235,331 ~32:20/08/2021

2024/02238 ~ Complete ~54:METHODS AND SYSTEMS FOR TRAINING ATTRIBUTE PREDICTION MODELS ~71:XERO LIMITED, 19-23 Taranaki Street, New Zealand ~72: CHEAH, Soon-Ee;DRIDAN, Rebecca;GABRIEL THURIER, Quentin;RUSU, Delia~ 33:AU ~31:2021903009 ~32:17/09/2021

2024/02242 ~ Complete ~54:EFFERVESCENT CLEANSING POWDER COMPOSITION ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: HASIBA BEKTO;JENNA CHRISTINE DOUTHIT;KAYLA MARIE KEMLER~ 33:EP ~31:21202863.3 ~32:15/10/2021

- APPLIED ON 2024/03/20 -

2024/02249 ~ Provisional ~54:METHOD OF INFUSING COFFEE ~71:ALTAAF SAYED, 37a PLETTENBERG ROAD, South Africa ~72: Altaaf Sayed~

2024/02253 ~ Complete ~54:CROSS-NETWORK INFORMATION INTERACTION METHOD AND SYSTEM BASED ON INTERNET OF THINGS ~71:WEIFANG UNIVERSITY, No. 5147, Dongfeng East Street, High-tech Development Zone, Weifang, People's Republic of China ~72: GAO, Jin;YAN, Huihui~

2024/02265 ~ Complete ~54:FRUITY COMPOUND SEASONING AND PREPARATION METHOD THEREFOR ~71:HAINAN INSTITUTE OF GRAIN AND OIL SCIENCE, 125 Neihuan Street, Jiaji Town, Qionghai City, People's Republic of China ~72: ZHANG, Hongjian;ZHENG, Lianhe;ZOU, Yi~

2024/02270 ~ Complete ~54:NOVEL ANTI-MUC1 ANTIBODY AND USE THEREOF ~71:PEPTRON, INC., (JEONMIN-DONG) 37-24, YUSEONG-DAERO 1628 BEON-GIL,YUSEONG-GU, DAEJEON 34054, REP OF KOREA, Republic of Korea ~72: CHOI, Hoil~ 33:KR ~31:10-2021-0113712 ~32:27/08/2021;33:KR ~31:10-2022-0106864 ~32:25/08/2022

2024/02276 ~ Complete ~54:APPARATUS AND METHODS OF PREVENTING POWER OUTAGES ~71:POWER GRID PROFESSIONALS INC., 6501 Aaron Aronov Drive Fairfield, United States of America ~72: McHenry, Larry~ 33:US ~31:63/246,783 ~32:21/09/2021;33:US ~31:63/271,210 ~32:24/10/2021;33:US ~31:63/374,747 ~32:06/09/2022;33:US ~31:17/933,977 ~32:21/09/2022

2024/02281 ~ Complete ~54:AERATED CONFECTIONERY ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: CELIGUETA TORRES, Isabel;LAZIDIS, Aristodimos;LESER, Martin Erwin;WOOSTER, Timothy James~ 33:EP ~31:21193528.3 ~32:27/08/2021

2024/02294 ~ Complete ~54:CARBONIZATION OIL-CONVERSION PROCESSING APPARATUS ~71:RYOKO ITO, 1-1-20, Nagayoshinagahara, Hirano-ku, Osaka-shi Osaka, 5470016, Japan ~72: TOMOAKI ITO~ 33:JP ~31:2021-150129 ~32:15/09/2021

2024/02389 ~ Provisional ~54:SELF CONTAINED POWER GENERATION AND/OR STORAGE SYSTEM WITH INTELLIGENT PRODUCTIVE USE SUB-SYSTEM ~71:Kabuya Mulumba Randy, Kyalami, South Africa ~72: Kabuya Mulumba Randy~

2024/02251 ~ Complete ~54:GREEN AND ACCURATE APPLICATION METHOD OF BREEDING ORGANIC WASTES IN VEGETABLE GROWING AREAS OF NORTH CHINA ~71:SHANDONG AGRICULTURAL TECHNOLOGY EXTENSION CENTER, NO.15 JIEFANG ROAD, LIXIA DISTRICT, People's Republic of China ~72: AN, Linlin;DONG, Yanhong;MA, Ronghui;WANG, Jian;XING, Xiaofei;ZHANG, Hui;ZHANG, Shanshan;ZHAO, Qingxin;ZHENG, Xuebo~

2024/02259 ~ Complete ~54:SYSTEM AND METHOD FOR EXTRACORPOREAL BLOOD TREATMENT ~71:Gambro Lundia AB, Magistratsvägen 16, LUND 226 43, SWEDEN, Sweden ~72: FORSAL, Innas;HANCOCK, Viktoria;HOBRO, Sture;NILSSON, Anders~ 33:SE ~31:2050621-8 ~32:01/06/2020

2024/02262 ~ Complete ~54:METHOD FOR MANAGING HEALTH DATA THROUGH CHANGXIN MEMORY ~71:GUANGZHOU KEFU MEDICAL TECHNOLOGY CO., LTD, second floor of No.5 factory Dongshen Village Dongyong Town, Nansha District, People's Republic of China ~72: LIU, Enping;LIU, Sujun;LIU, Yidi;TAN, Ping;WANG, Shengxiang~

2024/02264 ~ Complete ~54:METHOD FOR PULPING BY CATALYZING DISSOCIATION OF STRAW FIBERS WITH IRON-MANGANESE-LOADED CERIUM OXIDE/CARBON DOTS, PULP AND APPLICATION THEREOF ~71:JIANGSU ACADEMY OF AGRICULTURAL SCIENCES, No. 50, Zhongling Road, Xuanwu District, Nanjing, Jiangsu, 210014, People's Republic of China ~72: A. ISAAC SANUSI;CHENG YONG;E. B. GUEGUIM KANA;ENHUI SUN;HONGMEI JIN;HONGYING HUANG;LING CHEN;PING QU;YUEDING XU~ 33:CN ~31:2023115077310 ~32:13/11/2023

2024/02268 ~ Complete ~54:METHODS FOR FORMING SILICATES OF CALCIUM ~71:NOVAPHOS GYPSUM TECHNOLOGY LLC, 3200 COUNTY ROAD 630 WEST, FORT MEADE, FLORIDA 33841, USA, United States of America ~72: BLAKE, David B.;VIGNOVIC, Mark~ 33:US ~31:63/236,892 ~32:25/08/2021;33:US ~31:63/317,447 ~32:07/03/2022;33:US ~31:17/894,246 ~32:24/08/2022

2024/02274 ~ Complete ~54:DRIED BIOLOGICAL COMPOSITIONS AND METHODS THEREOF ~71:EVONIK OPERATIONS GMBH, RELINGHAUSER STRASSE 1-11, 45128 ESSEN, GERMANY, Germany ~72: BRAUN, Max;DERNEDDE, Mathias;LEICK, Sabine;SCHMIDT, Harald~ 33:EP ~31:21193146.4 ~32:26/08/2021

2024/02284 ~ Complete ~54:METHODS OF TREATING MYELOYDYSPLASTIC SYNDROMES WITH DECITABINE AND CEDAZURIDINE ~71:Otsuka Pharmaceutical Co., Ltd., 2-9 Kanda Tsukasa-Machi, Chiyoda-



ku, TOKYO 101-8535, JAPAN, Japan ~72: AZAB, Mohammad;HAO, Yong;KEER, Harold~ 33:US  
~31:63/246,547 ~32:21/09/2021

2024/02292 ~ Complete ~54:AROMATIC RING-CONTAINING BIOLOGICAL ANTAGONIST, AND  
PREPARATION METHOD THEREFOR AND USE THEREOF ~71:JIANGSU HANSOH PHARMACEUTICAL  
GROUP CO., LTD., Economic and Technological Development Zone, Lianyungang, Jiangsu, 222047, People's  
Republic of China;SHANGHAI HANSOH BIOMEDICAL CO., LTD., Building 2, No.3728 Jinke Road, Zhangjiang,  
Hi-Tech Park, Shanghai, 201203, People's Republic of China ~72: HUALING XIAO;JIAQIANG DONG;QIANG  
LIU;XINGYUN LU~ 33:CN ~31:202110988568.9 ~32:26/08/2021;33:CN ~31:202210633028.3 ~32:06/06/2022

2024/02288 ~ Complete ~54:CONTROL INFORMATION ~71:Sandvik Mining and Construction Oy, Pihtisulunkatu  
9, TAMPERE 33330, FINLAND, Finland ~72: KASKI, Miika;MANNONEN, Petri;VALTEE, Mikko~ 33:EP  
~31:21201434.4 ~32:07/10/2021

2024/02254 ~ Complete ~54:SYSTEM FOR AUTONOMOUS HEALTH MANAGEMENT BASED ON WIRELESS  
TRANSMISSION OF INTELLIGENT CHIP ~71:GUANGZHOU KEFU MEDICAL TECHNOLOGY CO., LTD,  
second floor of No.5 factory Dongshen Village Dongyong Town, Nansha District, People's Republic of China ~72:  
CAI, Pan;FENG, Xia;LIN, Yongming;LIU, Enping;LIU, Sujun~

2024/02255 ~ Complete ~54:ANTIBODY-DRUG CONJUGATE AND PREPARATION METHOD AND  
APPLICATION THEREOF ~71:SHANGHAI UNIVERSITY OF MEDICINE AND HEALTH SCIENCES, 279  
Zhouzhu Road, Pudong New Area, Shanghai, 200120, People's Republic of China ~72: DAI, Xianhua;FU,  
Hao;HUANG, Gang;LI, Bohua;LI, Wei;LIANG, Beibei;WANG, Chao;ZHANG, Zhiyu~ 33:CN ~31:202410095231.9  
~32:23/01/2024

2024/02257 ~ Complete ~54:EFFICIENT ROADWAY TUNNELING MACHINERY DEVICE AND METHOD  
~71:Anhui University of Science and Technology, 168 Taifeng Street, Tianjiaan District, Huainan City, Anhui  
Province, People's Republic of China;Ordos Haohua Hongqingliang Mining Co., Ltd, Bulawan Community, Shiba  
Getu Village, Zhaojun Town, Dalate Banner, Ordos City, Inner Mongolia Autonomous Region, People's Republic  
of China ~72: HUA Kafei;LU Shutao;SUN Peng;WANG Jinhai;YAO Xinyu;ZHANG Chuang~

2024/02258 ~ Complete ~54:SYSTEM AND METHOD FOR EXTRACORPOREAL BLOOD TREATMENT  
~71:Gambro Lundia AB, Magistratsvägen 16, LUND 226 43, SWEDEN, Sweden ~72: FORSAL,  
Innas;HANCOCK, Viktoria;HOBRO, Sture;NILSSON, Anders~ 33:SE ~31:2050621-8 ~32:01/06/2020

2024/02260 ~ Complete ~54:A COMPOSTING MACHINE ~71:FOOD 2050 TECHNOLOGIES (PTY) LTD, 17  
FISH EAGLE STREET, SILVER LAKES GOLF ESTATE, PRETORIA, GAUTENG, 0081, SOUTH AFRICA, South  
Africa ~72: PIETERS, Tertius, Christiaan~ 33:ZA ~31:2023/04884 ~32:02/05/2023

2024/02271 ~ Complete ~54:PYRAZINE COMPOUNDS FOR THE CONTROL OF INVERTEBRATE PESTS  
~71:BASF SE, CARL BOSCH STRASSE 38, 67056 LUDWIGSHAFEN AM RHEIN, GERMANY, Germany ~72:  
GILBERG, Erik;HUWYLER, Nikolas;KOERBER, Karsten;PEDRONI, Julia~ 33:EP ~31:21193535.8  
~32:27/08/2021;33:EP ~31:21193536.6 ~32:27/08/2021;33:EP ~31:21215019.7 ~32:16/12/2021

2024/02275 ~ Complete ~54:LONG-ACTING PTH COMPOUND TREATMENTS ~71:ASCENDIS PHARMA  
BONE DISEASES A/S, TUBORG BOULEVARD 12, 2900 HELLERUP, DENMARK, Denmark ~72: SPROGØE,  
Kennett~ 33:EP ~31:21198228.5 ~32:22/09/2021;33:EP ~31:22193085.2 ~32:31/08/2022

2024/02279 ~ Complete ~54:FORMING PROCESS OF ALUMINUM ALLOY FRAME FOR NEW ENERGY  
VEHICLE ~71:An hui Krant Aluminum Products Co., Ltd, No.12 Guohua Road, Guangde Economic Development

Zone, Xuancheng, Anhui, 242200, People's Republic of China ~72: PAN, Zutang;PENG, Zhongyuan;SHI, Laisheng;XIONG, Maoqing;ZHU, Qiancheng~ 33:CN ~31:2023108119658 ~32:04/07/2023

2024/02282 ~ Complete ~54:NON-ROTATING ELLIPTICAL IRIS DIAPHRAGM ~71:Thales, 4 rue de la Verrerie, MEUDON 92190, FRANCE, France ~72: MONTAGNE, Laurent~ 33:FR ~31:2109913 ~32:21/09/2021

2024/02286 ~ Complete ~54:WOUND DRESSING WITH ODOR CONTROL PROPERTIES ~71:Essity Hygiene and Health Aktiebolag, GÖTEBORG 405 03, SWEDEN, Sweden ~72: LAFENDT, Sören;SCHÜTZ, Patrick~

2024/02296 ~ Complete ~54:PROCESSES AND SYSTEMS FOR PRODUCING A NICKEL SULFATE PRODUCT ~71:BASF SE, Carl-Bosch-Str. 38, 67056, Ludwigshafen am Rhein, Germany ~72: JULIA HOFINGER;RALF BOEHLING;SABINE FRISCHHUT;STEFAN PICHLMAIR~ 33:US ~31:63/262,927 ~32:22/10/2021;33:EP ~31:21205128.8 ~32:27/10/2021

2024/02248 ~ Provisional ~54:EARNAMO ~71:GOODSTONE MPHANA, 55/ SHEBELLE CRESCENT, African Intellectual Property Organization (OAPI) ~72: GOODSTONE MPHANA~

2024/02273 ~ Complete ~54:USE OF A COLLOIDAL POLYMER INORGANIC HYBRID MATERIAL AS A CONSTRUCTION COMPOSITION ADDITIVE ~71:CONSTRUCTION RESEARCH & TECHNOLOGY GMBH, DR.- ALBERT-FRANK- STRASSE 32, TROSTBERG 83308, GERMANY, Germany ~72: DALLA LIBERA, Alessandro;DHERS, Sebastien;MORATTI, Francesca;SACHSENHAUSER, Bernhard~ 33:EP ~31:21193476.5 ~32:27/08/2021

2024/02367 ~ Complete ~54:METHOD, DEVICE, EQUIPMENT AND STORAGE MEDIUM FOR DETERMINING THRESHOLD VALUE OF GEOLOGICAL ~71:CHINA UNIVERSITY OF GEOSCIENCES (BEIJING), 29 Xueyuan Road, Haidian District, People's Republic of China ~72: YU, Bingsong;YUAN, Tianshu;ZHANG, Jinchuan~ 33:CN ~31:202310935548.4 ~32:27/07/2023

2024/02277 ~ Complete ~54:REAL-TIME MEASUREMENT METHOD OF LABORATORY SPACE WAVE BASED ON VISUAL EDGE DETECTION ~71:TIANJIN RESEARCH INSTITUTE FOR WATER TRANSPORT ENGINEERING, MINISTRY OF TRANSPORT, No.2618 Xingang N0.2 Road, Binhai New Area, Tianjin, 300456, People's Republic of China ~72: CHEN Hanbao;CHEN Songgui;HU Chuanqi;PENG Cheng;REN Zhiwei;WANG Yina;WANG Yingqi;ZHANG Huaqing;ZHAO Xu~ 33:CN ~31:2021110629518 ~32:10/09/2021

2024/02283 ~ Complete ~54:TEMPLATE-BASED SYNTAX ELEMENT PREDICTION ~71:InterDigital CE Patent Holdings, SAS, 3 rue du Colonel Moll, PARIS 75017, FRANCE, France ~72: GALPIN, Franck;LE LEANNEC, Fabrice;NASER, Karam;POIRIER, Tangi~ 33:EP ~31:21306335.7 ~32:27/09/2021

2024/02299 ~ Complete ~54:METHODS OF CONTROLLING ANTIBODY HETEROGENEITY ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, New York, 10691-6707, United States of America ~72: JOHN CROWLEY;JOHN HOURIHAN;PHILIP MELLORS~ 33:US ~31:63/246,047 ~32:20/09/2021

2024/02293 ~ Complete ~54:SODIUM BICARBONATE NUTRITIONAL SUPPLEMENT ~71:LAMINARIA GROUP AB, Gibraltargatan 1 A, 411 32, Göteborg, Sweden ~72: MARTIN AHNOFF~ 33:EP ~31:21192881.7 ~32:24/08/2021;33:EP ~31:22176761.9 ~32:01/06/2022

2024/02280 ~ Complete ~54:AERATED CONFECTIONERY ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: CELIGUETA TORRES, Isabel;LAZIDIS, Aristodimos~ 33:EP ~31:21193520.0 ~32:27/08/2021

2024/02287 ~ Complete ~54:MINING AUTOMATION SYSTEM OPERATION ZONE CONTROL ~71:Sandvik Mining and Construction Oy, Pihtisulunkatu 9, TAMPERE 33330, FINLAND, Finland ~72: CUMINI, Lauso;VAARA, Juho~ 33:EP ~31:21199470.2 ~32:28/09/2021

2024/02291 ~ Complete ~54:METHOD FOR PACKAGING AN OBJECT IN A PAPER BAG, AND PAPER BAG ~71:MONDI AG, Marxergasse 4A 1030 Wien, Austria ~72: PETER RÜGER~ 33:DE ~31:10 2021 121 836.5 ~32:24/08/2021

2024/02302 ~ Provisional ~54:HYDRO-PNEUMATIC GAS COMPRESSOR ~71:CORNELIUS JOHANNES VAN DER HEEVER, 112 VOS ST RENSBURG, South Africa ~72: CORNELIUS JOHANNES VAN DER HEEVER~

2024/02290 ~ Complete ~54:NOVEL AMINE-N-OXIDE COMPOUNDS ~71:Karl Franzens Universität Graz, Universitätsplatz 3, GRAZ 8010, AUSTRIA, Austria;Rijksuniversiteit Groningen, Broerstraat 5, GRONINGEN 9712 CP, THE NETHERLANDS, Netherlands ~72: BARTA WEISSERT, Katalin;BÁLINT, Fridrich;HOCHEGGER, Markus~ 33:EP ~31:21198124.6 ~32:21/09/2021

2024/02295 ~ Complete ~54:ANTIVIRAL STRUCTURALLY-STAPLED SARS-COV-2 PEPTIDE- CHOLESTEROL CONJUGATES AND USES THEREOF ~71:DANA-FARBER CANCER INSTITUTE, INC., 450 Brookline Avenue, Boston, Massachusetts, 02215-5450, United States of America ~72: GREGORY H BIRD;LOREN D WALENSKY~ 33:US ~31:63/241,722 ~32:08/09/2021

2024/02301 ~ Complete ~54:ANTIMICROBIAL PACKAGING ~71:SUPERIOR SPECIAL PROJECTS (PTY) LTD, Old Mill Road, Ndabeni, Cape Town 7405, SOUTH AFRICA, South Africa ~72: WILLIAMS, Mark~ 33:ZA ~31:2021/07306 ~32:29/09/2021

2024/02256 ~ Complete ~54:A CHINESE MEDICINE OPHTHALMOLOGY EXAMINATION DEVICE FOR CONVENIENTLY ADJUSTING THE ANGLE ~71:Nanjing Liuhe District Hospital of Traditional Chinese Medicine, No.181 Xintang Road, Longchi Street, Liuhe District, Nanjing, China, 211500, People's Republic of China ~72: Jinwang MA;Ning JIANG;Tong ZHOU;Yuanyuan CAO~

2024/02267 ~ Complete ~54:HERBICIDAL MALONAMIDES ~71:BASF SE, CARL BOSCH STRASSE 38, 67056 LUDWIGSHAFEN AM RHEIN, GERMANY, Germany ~72: HEINRICH, Marc;KORDES, Markus;KRAEMER, Gerd;NEWTON, Trevor, William;SEISER, Tobias;ZIMMERMANN, Gunther~ 33:EP ~31:21193037.5 ~32:25/08/2021

2024/02285 ~ Complete ~54:HOT-DIP GALVANIZED STEEL MATERIAL ~71:NIPPON STEEL CORPORATION, 6-1, Marunouchi 2-chome, Chiyoda-ku, TOKYO 100-8071, JAPAN, Japan ~72: MITSUNOBU , Takuya;SAITO, Mamoru;TAKEBAYASHI , Hiroshi;TOKUDA , Kohei~

2024/02289 ~ Complete ~54:NOVEL SULFONATE COMPOUNDS ~71:Karl Franzens Universität Graz, Universitätsplatz 3, GRAZ 8010, AUSTRIA, Austria;Rijksuniversiteit Groningen, Broerstraat 5, GRONINGEN 9712 CP, THE NETHERLANDS, Netherlands ~72: BARTA WEISSERT, Katalin;BÁLINT, Fridrich;HOCHEGGER, Markus~ 33:EP ~31:21198127.9 ~32:21/09/2021

2024/02297 ~ Complete ~54:DETERGENT COMPOSITIONS ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: DAVID CHRISTOPHER THORLEY;DAVID STEPHEN GRAINGER;NEIL STEPHEN BURNHAM~ 33:EP ~31:21203922.6 ~32:21/10/2021;33:EP ~31:21203927.5 ~32:21/10/2021;33:EP ~31:21203931.7 ~32:21/10/2021

2024/02250 ~ Provisional ~54:GOLF SWING TRAINER ~71:Pragassen NAIDOO, 500 Lenchen Road, Stand 3252 Amberfield Ridge Complex, South Africa ~72: Pragassen NAIDOO~

2024/02252 ~ Complete ~54:GREEN SYNERGISTIC FERTILIZATION METHOD FOR SUMMER CORN IN HUANG-HUAI-HAI REGION ~71:SHANDONG AGRICULTURAL TECHNOLOGY EXTENSION CENTER, NO.15 Jiefang Road, Lixia District, Jinan City,, People's Republic of China ~72: AN, Linlin;DONG, Yanhong;MA, Ronghui;WANG, Jian;ZHANG, Daosheng;ZHANG, Shanshan;ZHANG, Xuefei;ZHAO, Qingxin~

2024/02261 ~ Complete ~54:METHOD FOR MANAGING HEALTH DATA BY GRAPHENE TRANSISTOR CHIP ~71:GUANGZHOU KEFU MEDICAL TECHNOLOGY CO., LTD, second floor of No.5 factory Dongshen Village Dongyong Town, Nansha District, Colombia ~72: LIU, Enping;LIU, Sujun;LIU, Yidi;TAN, Ping;WANG, Shengxiang~

2024/02263 ~ Complete ~54:HEALTH MANAGEMENT SYSTEM AND METHOD BASED ON INTEGRATED SENSING AND COMMUNICATION (ISAC), TERMINAL EQUIPMENT AND STORAGE MEDIUM ~71:GUANGZHOU KEFU MEDICAL TECHNOLOGY CO., LTD, second floor of No.5 factory Dongshen Village Dongyong Town, Nansha District, People's Republic of China ~72: LIN, Yongming;LIU, Enping;LIU, Sujun;WANG, Shengxiang;YANG, Dingguang~

2024/02269 ~ Complete ~54:SYSTEM AND METHOD FOR EXECUTING COMPILED USER DEFINED FUNCTIONS IN VECTORIZED DATABASES ~71:ACTIAN CORPORATION, 2300 GENG ROAD, SUITE 150, PALO ALTO, CALIFORNIA 94303, USA, United States of America ~72: DESANTIS, Robert, P.;KLÄBE, Steffen~ 33:US ~31:63/237,429 ~32:26/08/2021;33:US ~31:17/873,906 ~32:26/07/2022

2024/02266 ~ Complete ~54:MAGNETIC EARTH CLAMP FOR OVERHEAD LINE EQUIPMENT STRUCTURES ~71:NETWORK RAIL, 1 EVERSOLT STREET, LONDON, GREATER LONDON NW1 2DN, UNITED KINGDOM, United Kingdom ~72: NEL, Louis~ 33:GB ~31:2203745.1 ~32:17/03/2022

2024/02272 ~ Complete ~54:TANGENTIAL FLOW MATERIAL PROCESSING CHAMBER AND ASSOCIATED MATERIAL PROCESSING SYSTEM ~71:SEED TERMINATOR HOLDINGS PTY LTD, 12 EWEN STREET, KINGSCOTE, SOUTH AUSTRALIA 5223, AUSTRALIA, Australia ~72: BARR, James;BERRY, Nicholas, Kane~ 33:AU ~31:2021221797 ~32:25/08/2021

2024/02300 ~ Complete ~54:LPXC INHIBITORS AND USES THEREOF ~71:BLACKSMITH MEDICINES, INC., 10578 Science Center Drive, Suite 205, United States of America ~72: TENG, Min~ 33:US ~31:63/249,166 ~32:28/09/2021

2024/02278 ~ Complete ~54:COMPOSITIONS AND METHODS FOR PREVENTING OR REDUCING THE RISK OF METABOLIC SYNDROME ~71:GARCÍA SADA, Fernando, Río de la Plata 309, Piso 3 Col. Del Valle, Mexico ~72: GARCÍA ALANIS, Eduardo;GOJÓN ROMANILLOS, Gabriel;GOJÓN ZORRILLA, Gabriel~ 33:US ~31:63/236,875 ~32:25/08/2021

2024/02298 ~ Complete ~54:DETERGENT COMPOSITIONS ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: DAVID CHRISTOPHER THORLEY;DAVID STEPHEN GRAINGER;NEIL STEPHEN BURNHAM~ 33:EP ~31:21203922.6 ~32:21/10/2021;33:EP ~31:21203927.5 ~32:21/10/2021;33:EP ~31:21203931.7 ~32:21/10/2021

- APPLIED ON 2024/03/22 -

2024/02306 ~ Complete ~54:HEALTH MANAGEMENT DATA PUSH METHOD, SYSTEM AND STORAGE MEDIUM ~71:GUANGZHOU KEFU MEDICAL TECHNOLOGY CO., LTD, second floor of No.5 factory Dongshen Village Dongyong Town, Nansha District, People's Republic of China ~72: LIU, Enping;LIU, Sujun;LIU, Yidi;TAN, Ping;WANG, Shengxiang~

2024/02310 ~ Complete ~54:METHOD AND APPARATUS FOR CONSTRUCTING FUND PORTFOLIO BASED ON MARKET STATE FORECASTING ~71:Suzhou International Development Group Co., Ltd., North Floor, Guofa Building, No. 3118 Renmin Road, Suzhou City, Jiangsu Province, 215000, People's Republic of China ~72: LI, Shengyu;NIU, Xiaojian;SHEN, Guangjun;TANG, Yiyong;ZHANG, Bing;ZHOU, Ye~ 33:CN ~31:202311155417.0 ~32:08/09/2023

2024/02311 ~ Complete ~54:INVENTION RELATES TO RUBBER SLEEPER WITH AUTOMATIC MONITORING FUNCTION ~71:CHINA RAILWAY 12TH BUREAU GROUP CO.,LTD., No.130 Xikuang Street, Wanbailin District, Taiyuan City, Shanxi Province, 030024, People's Republic of China;Central South University, No.932 Lushan South Road, Yuelu District, Changsha City, Hunan Province, 410083, People's Republic of China;Dongnan Coastal Railway Fujian Co., Ltd., No.73 Qinyuan Road, Jin 'an District, Fuzhou City, Fujian Province, 350013, People's Republic of China;Guangzhou City Polytechnic, No.248 Guangyuan Middle Road, Baiyun District, Guangzhou City, Guangdong Province, 510419, People's Republic of China;Guangzhou Metro Design & Research Institute Co.,Ltd., No.204 Huanshi West Road, Yuexiu District, Guangzhou City, Guangdong Province, 510010, People's Republic of China ~72: CAI Fuhai;CHEN Guoshun;DUAN Tingfa;GUO Wuji;HAN Marui;HUANG Zhibin;LI Peicheng;LI Ping;LI Zhuang;LIU Junhua;WANG Xiongbiao;WU Da;WU Shuang;YE Mengxuan;YIN Huatuo;ZENG Zhiping;ZHANG Zhipeng~

2024/02313 ~ Complete ~54:LASER FUSING AND STRENGTHENING DEVICE FOR STEEL SURFACE OF PLASTIC MOLD ~71:Zhejiang Industry and Trade Vocational College, No. 301, Yanyun Road, Oujiangkou Industrial Agglomeration Area, Wenzhou City, Zhejiang Province, People's Republic of China ~72: Chen Wenshan;Jiang Heming;Li Yong;Liu Jingqi;Teng Shuzhen;Wang Shuguang;Zhang Shanshan;Zhang Yuefei~

2024/02316 ~ Complete ~54:A DATA TRANSMISSION DEVICE AND A DATA TRANSMISSION SYSTEM FOR STATISTICAL INVESTIGATION RESULTS ~71:Huainan Normal University, Dongshan West Road, Tianjia'an District, Huainan City, Anhui Province, 232038, People's Republic of China ~72: Chuanliang Wu;Shaohua Qiu;Yamin Du;Yanfen Li~

2024/02319 ~ Complete ~54:INJECTABLE HYDROGEL, PREPARATION METHOD AND APPLICATION THEREOF ~71:THE THIRD PEOPLE'S HOSPITAL OF CHENGDU, No.82,Qinglong Street, Qingyang District, Chengdu, Sichuan, 610031, People's Republic of China ~72: Gang HUANG;Haifeng PEI;Han GAO;Han WANG;Jiali YANG;Jian HE;Jun HOU;Junbo XU;Shanshan QIN;Shiqiang XIONG;Tian YUE;Yue TANG;ZengdunzhuDAN;Zhen ZHANG~ 33:CN ~31:202311571337.3 ~32:23/11/2023

2024/02321 ~ Complete ~54:ENERGY-SAVING WATER COOLING DEVICE FOR COMPUTERS ~71:HEILONGJIANG INSTITUTE OF CONSTRUCTION TECHNOLOGY, No. 999 Xueyuan Road, Hulan District, Harbin City, Heilongjiang Province, 150025, People's Republic of China ~72: FAN, Liping~

2024/02341 ~ Complete ~54:BIO-OIL FRACTIONS COMPOSITION DERIVED FROM BIO-OIL ~71:Suzano S.A., Avenida Professor Magalhães Neto, 1.752, piso 10, salas 1010 e, 1011, Pituba, SALVADOR 41810-012, BAHIA, BRAZIL, Brazil ~72: DE LIMA, Danilo Ribeiro;GUIMARÃES, Matheus Antunes;MARTINS, Marcus Paulo;RAMIRES, Heloisa Ogushi Romeiro;SILVA, Saulo De Melo Xavier;SOLIMAN, Everton Pires;ZAUZA, Edival Angelo Valverde~ 33:US ~31:63/237,034 ~32:25/08/2021

2024/02324 ~ Complete ~54:DEVICE FOR TREATING INNER WALLS OF DITCHES FOR FARMLAND IRRIGATION ~71:Hohai University, B416, Administrative Building, Jiangning Campus, Hohai University, No. 8 Focheng West Road, Jiangning District, Nanjing, Jiangsu, 211106, People's Republic of China ~72: DING, Jihui;DING, Xinrui;HUANG, Xuan;LI, Bo;MA, Tao;WAN, Qingyu~ 33:CN ~31:2023233965607 ~32:13/12/2023

2024/02334 ~ Complete ~54:GROUPS A AND B: SYSTEM AND METHOD FOR DECENTRALIZED TIMESTAMPING OF A SUBMISSION OF CONTENT ONTO A BLOCKCHAIN GROUP C: METHOD FOR



TIMESTAMPING VERIFICATION OF A SUBMISSION OF CONTENT ONTO A BLOCKCHAIN ~71:UREEQA INC., 55 Victoria Street North, Unit J Kitchener, Ontario N2H 5B7, Canada ~72: DE JONG, Matt;KHANDELWAL, Harsch~ 33:US ~31:63/250,436 ~32:30/09/2021

2024/02339 ~ Complete ~54:PROBIOTIC BACTERIA COMPOSITION FOR INHIBITING FUNGAL PROLIFERATION ~71:Lactobio A/S, Lersø Parkallé 42, 2., COPENHAGEN 2100, DENMARK, Denmark ~72: ELVEBAKKEN, Helena Falholt;KJÆRULFF, Søren;TESDORPF, Jens Edward;VEDEL, Charlotte~ 33:DK ~31:PA202100835 ~32:25/08/2021;33:DK ~31:PA202200503 ~32:31/05/2022

2024/02342 ~ Complete ~54:ANTISENSE OLIGONUCLEOTIDES HAVING ONE OR MORE ABASIC UNITS ~71:Sarepta Therapeutics, Inc., 215 First Street, CAMBRIDGE 02142, MA, USA, United States of America ~72: AHERN, Meghan;KIM, Kevin;OLIVER, Ryan~ 33:US ~31:63/261,860 ~32:30/09/2021;33:US ~31:63/408,277 ~32:20/09/2022

2024/02347 ~ Complete ~54:COMPOSITE RCC DECK AND PRESTRESSED PARABOLIC BOTTOM CHORD UNDERSLUNG OPEN WEB STEEL GIRDER BRIDGE SUPERSTRUCTURE ~71:SINGH, Pramod Kumar, N 4/90 Adityanagar, Varanasi, Uttar Pradesh, 221005, India ~72: SINGH, Pramod Kumar~ 33:IN ~31:202111043274 ~32:24/09/2021

2024/02352 ~ Complete ~54:METHOD FOR MANAGING HEALTH DATA BY ADN NETWORK ~71:GUIZHOU YUOPIN SLEEP HEALTH INDUSTRY CO., LTD, 4/F, No. 17, Smart Industrial Park, Bijiang District, Tongren City, People's Republic of China ~72: LIU, Enping;LIU, Sujun;LIU, Yidi;TAN, Ping;WANG, Shengxiang~

2024/02348 ~ Complete ~54:SEGMENTED GLASS MELTING FURNACE ~71:AGC GLASS EUROPE, Avenue Jean Monnet 4, 1348, Louvain-la-Neuve, Belgium ~72: FABRICE FASILOW;FRANÇOIS BIOUL;NICOLAS BOURGEOIS;ZAKARIA HABIBI~ 33:EP ~31:21193304.9 ~32:26/08/2021;33:EP ~31:21200998.9 ~32:05/10/2021

2024/02307 ~ Complete ~54:METHOD FOR MANAGING HEALTH DATA BY USING LINXIISA ~71:GUIZHOU YUOPIN SLEEP HEALTH INDUSTRY CO., LTD, 4/F, No. 17, Smart Industrial Park, Bijiang District, Tongren City, People's Republic of China ~72: LIU, Enping;LIU, Sujun;LIU, Yidi;TAN, Ping;WANG, Shengxiang~

2024/02337 ~ Complete ~54:AGENT FOR TREATING INFECTIONS CAUSED BY MULTIDRUG-RESISTANT BACTERIA ~71:PROKOPENKO, Dmitriy Olegovich, ul. Esaulenko, d. 1B, kv. 65, Hostinskiy r-n Sochi, Russian Federation;SIDORENKO, Sergey Vladimirovich, ul. Drezdenskaya, d. 12, kv. 13, Russian Federation;SIDOROV, Stanislav Mikhailovich, ul. Rechnaya, d. 11, d. Burtsevo, pos. Filimonkovskoe, Russian Federation;YAKOVLEV, Sergey Vladimirovich, ul. Sushevskiy val, d. 13/1, kv. 53, Russian Federation;YUDIN, Sergey Mikhailovich, ul. Penyaginskaya, d. 12, korp. 1, kv. 5, Russian Federation ~72: PROKOPENKO, Dmitriy Olegovich;SIDORENKO, Sergey Vladimirovich;SIDOROV, Stanislav Mikhailovich;YAKOVLEV, Sergey Vladimirovich;YUDIN, Sergey Mikhailovich~ 33:RU ~31:2022118203 ~32:05/07/2022

2024/02338 ~ Complete ~54:NOVEL PYRAZINYL-TRIAZOLE COMPOUNDS AS PESTICIDES ~71:Bayer Aktiengesellschaft, Kaiser-Wilhelm-Allee 1, LEVERKUSEN 51373, GERMANY, Germany ~72: BÄR, Robin Maximilian;CANCHO GRANDE, Yolanda;DAMIJONAITIS, Arunas;EBBINGHAUS-KINTSCHER, Ulrich;FÜßLEIN, Martin;HEISLER, Iring;JESCHKE, Peter;LINKA, Marc;LÖSEL, Peter;SCHWARZ, Hans-Georg;TELSER, Joachim;TURBERG, Andreas;WINTER, Philipp~ 33:EP ~31:21193101.9 ~32:25/08/2021

2024/02346 ~ Complete ~54:METHOD AND DEVICE FOR CREATING A POLYSYSTEM FOR MIXING SEEDS AND FERTILIZERS ~71:Obschestvo s ogranichennoi otvetstvennostyu "ARTEXIM" (OOO "ARTEXIM"), ul A. Avetisyan, , 36 kv. 50, Yerevan, 0033, Armenia ~72: NALBANDYAN, Armen Vemirovich~ 33:RU ~31:2021114617 ~32:24/05/2021

2024/02349 ~ Complete ~54:COMPOSITIONS AND METHODS FOR TREATING CAG REPEAT DISEASES ~71:BOARD OF TRUSTEES OF SOUTHERN ILLINOIS UNIVERSITY, 801 North Rutledge Street, P.O. Box 19616, Springfield, Illinois, 62974, United States of America;IRIS MEDICINE, INC., 3340 Hillview Avenue, Palo Alto, California, 94304, United States of America ~72: DAVID COREY;ELEONORA DE KLERK;KEITH T GAGNON;MEGAN BLEWETT;MELISSA A KOTTERMAN;PHILIP J JENSIK~ 33:US ~31:63/253,070 ~32:06/10/2021;33:US ~31:63/339,363 ~32:06/05/2022

2024/02353 ~ Complete ~54:METHOD AND SYSTEM FOR BALLASTED RAILWAY TRACK REGULARITY TAMPING AND STORAGE MEDIUM ~71:CHINA RAILWAY FIRST GROUP CO., LTD, No. 1, Yanta North Road, Beilin District, Xi 'an, People's Republic of China;CHINA RAILWAY FIRST GROUP XINYUN ENGINEERING CO., LTD, No.111, Renmin East Road, Weicheng District, Xianyang City, People's Republic of China ~72: CHENG, Jingwei;HAN, Yubo;LIU, Jianxing;NIU, Likun;SUN, Junhong;WANG, Wei;WEN, Zhu;XU, Hong;ZHAO, Shengjian~ 33:CN ~31:2023110697389 ~32:23/08/2023

2024/02317 ~ Complete ~54:SHIP POWER SYSTEM-ORIENTED FAST MODELING METHOD AND DEVICE BASED ON LUMPED PARAMETER METHOD ~71:Wuhan Second Ship Design and Research Institute, No. 19, Yangqiaohu Avenue, Jiangxia District, Wuhan City, Hubei Province, 430070, People's Republic of China ~72: Fang Caihua;Gong Daxin;Hu Chi;Li Guanqun;Pan Yan;Shi Yaguang;Xia Kai;Zhang Rongchuan;Zhang Wenjin~ 33:CN ~31:202311271887.3 ~32:27/09/2023

2024/02329 ~ Complete ~54:INTELLIGENT TOXIC AND HARMFUL GAS ALARM SYSTEM FOR NITRIC ACID PREPARATION ~71:FUJIAN TIANFU ELECTRONIC MATERIAL CO., LTD., 35 Gongye Road, Pingpu Village, People's Republic of China ~72: LI, WENBIN;LIN, DALU;ZHENG, QI~ 33:CN ~31:2023103212612 ~32:29/03/2023

2024/02322 ~ Complete ~54:A DISPENSER ~71:DE VILLIERS, Albertus, Johannes, 29A BURGER STREET, POTCHEFSTROOM, 2526, South Africa ~72: DE VILLIERS, Albertus, Johannes~ 33:ZA ~31:2022/12674 ~32:22/12/2022

2024/02326 ~ Complete ~54:A MECHANICAL SLIDING DEVICE FOR LOGISTICS WAREHOUSING ~71:Huainan Normal University, Dongshan West Road, Tianjia'an District, Huainan City, Anhui Province, 232038, People's Republic of China ~72: Chuanliang Wu;Chun Fang;Wenxian Xu;Yamin Du;Yanfen Li~

2024/02328 ~ Complete ~54:LIQUID CIRCULATION ATOMIZATION SYNTHESIS CONTROL SYSTEM AND METHOD FOR LITHIUM HEXAFLUOROPHOSPHATE PREPARATION ~71:FUJIAN LONGDE NEW ENERGY CO., LTD, 30 Gongye Road, Pingpu Village, People's Republic of China ~72: FU, WEIPENG;FU, YANQIONG;LI, ZHIHONG;ZHANG, DEYI~ 33:CN ~31:2023101899818 ~32:02/03/2023

2024/02331 ~ Complete ~54:UAV WITH PROJECTION FUNCTION ~71:MERRY WISER (JINHUA) TECHNOLOGY DEVELOPMENT CO., LTD, ROOM 9-07-08, BUILDING 1, HENGFENG BUILDING, SHUANGXI WEST ROAD, JIANGNAN STREET, WUCHENG DISTRICT, People's Republic of China;XINGZHI COLLEGE ZHEJIANG NORMAL UNIVERSITY, NO.3388, YINGBIN AVENUE, People's Republic of China ~72: GUCHONG LIN;JUN ZHU;NA LIN;QINGQUAN JIA;RUI ZHENG;RUIYANG HUANG;YUYUN HUANG;ZHIZHUANG DUAN~

2024/02340 ~ Complete ~54:A FUEL MONITORING SYSTEM ~71:Fuel Active Limited, 2 Glan-Y-Llyn Industrial Estate, Cardiff Road, Taffs Well, CARDIFF CF15 7JD, UNITED KINGDOM, United Kingdom ~72: HUGHES, Tomas Edward;JOHNS, Curtis;MASSEY, Nicholas James Andrew;MIDDLETON, Thomas;THOMAS, Jack Ellis~ 33:GB ~31:2112085.2 ~32:23/08/2021

2024/02323 ~ Complete ~54:A LUBRICANT PREPARATION DEVICE AND PREPARATION METHOD ~71:Qingdao Sainuo New Material Co., Ltd, 213 Landi Changsheng Road, Nancun Town, Pingdu City, Qingdao

City, Shandong Province, 266100, People's Republic of China; Sainuochem (Shandong) Co., Ltd., Middle Section of Ningbo Road, Lanshan, Rizhao City, Shandong Province, 276807, People's Republic of China ~72: Jianhong Chen; Jingguang Jiao~ 33:CN ~31:2023107474845 ~32:21/06/2023

2024/02333 ~ Complete ~54:PREPARATION METHOD FOR ARGYRODITE-TYPE SOLID ELECTROLYTE, AND ALL-SOLID-STATE BATTERY APPLICATION THEREOF ~71:SHANGHAI FIRM-LITHIUM NEW ENERGY TECHNOLOGY CO., LTD., Southwest side of Building 4, No.1215, Zhengjia Road, Lin-gang Special Area, (Shanghai) Pilot Free Trade Zone, Shanghai, 201306, People's Republic of China ~72: CHEN, Zhenying;ZHANG, Xi;ZHU, Jinhui~ 33:CN ~31:202111022905.5 ~32:01/09/2021

2024/02344 ~ Complete ~54:AN X-RAY FLUORESCENCE SYSTEM ~71:Commonwealth Scientific and Industrial Research Organisation, Clunies Ross Street, ACTON 2601, AUSTRALIAN CAPITAL TERRITORY, AUSTRALIA, Australia ~72: GANLY, Brianna;TICKNER, James~ 33:AU ~31:2021903067 ~32:24/09/2021

2024/02303 ~ Provisional ~54:U-GO DEVICE ~71:AMAGHECHI CHRYXTEZ BISIAKU OKOKOH, 23 BELLEVUE STR, South Africa ~72: AMAGHECHI CHRYXTEZ BISIAKU OKOKOH~ 33:ZA ~31:ZA2024 ~32:20/03/2024

2024/02305 ~ Complete ~54:PRECISE IRRIGATION DEVICE FOR CROPS ~71:China Agricultural University, No. 2 Yuanmingyuan West Road, Haidian District, Beijing, 100193, People's Republic of China ~72: GUO, Yan;LI, Si'en;MA, Yuntao;SHU, Meiyang~

2024/02320 ~ Complete ~54:CHINESE MEDICINE COMPOSITION OF LONICERA JAPONICA AND HIPPOPHAE RHAMNOIDES FOR TREATING ACNE ~71:Chongqing Chemical Industry Vocational College, No. 2009, Puti East Road, Changshou District, Chongqing, 401220, People's Republic of China;Chongqing Yaoxiaoge Pharmaceutical Technology Co., Ltd., No. 16-6, Daxue City East Road, Xianglushan Street, High-tech Zone, Chongqing, 401331, People's Republic of China;Xiangyang Central Hospital, Affiliated Hospital of Hubei University of Arts and Science, No. 39, Jingzhou Street, Gucheng Street, Xiangcheng District, Xiangyang City, Hubei Province, 441021, People's Republic of China ~72: Guiju CHEN;Rexidan BAIKERI;Ronghao ZHANG;Xi ZHA;Yihao ZHOU;Yuanzhong WANG~

2024/02308 ~ Complete ~54:INVENTION RELATES TO NUTRIENT-HEALTHY MEAL REPLACEMENT FOOD AND PREPARATION METHOD THEREOF ~71:Guangzhou City Polytechnic, NO. 248 Guangyuan Middle Road, Baiyun District, Guangzhou City, Guangdong Province, People's Republic of China ~72: JIANG Jinjin;ZHANG Yuehua~

2024/02314 ~ Complete ~54:AN INTELLIGENT MOLD CONTROL SYSTEM ~71:Zhejiang Industry and Trade Vocational College, No. 301, Yanyun Road, Oujiangkou Industrial Agglomeration Area, Wenzhou City, Zhejiang Province, People's Republic of China ~72: Huang Zhiyang;Liu Jingqi;Teng Shuzhen;Zhang Shanshan;Zhang Yuefei;Zhao Xifeng;Zhu Shaojun~

2024/02318 ~ Complete ~54:ADAPTIVE COMPUTATION SPEEDUP METHOD BASED ON DISPERSION OF FLOW FIELD ~71:Wuhan Second Ship Design and Research Institute, No. 19, Yangqiaohu Avenue, Jiangxia District, Wuhan City, Hubei Province, 430000, People's Republic of China ~72: Fang Caihua;Gong Daxin;Hu Chi;Li Guanqun;Pan Yan;Shi Yaguang;Xia Kai;Zhang Rongchuan;Zhang Wenjin~ 33:CN ~31:202311030775.9 ~32:15/08/2023

2024/02325 ~ Complete ~54:SPLIT-TYPE IRRIGATION CANAL WITH TRASH BLOCKING FUNCTION ~71:China Water Resources Beifang Investigation, Design & Research Co. Ltd., No.60, Dongting Road, Hexi District, Tianjin, 300222, People's Republic of China;Hohai University, B416, Administrative Building, Jiangning Campus, Hohai University, No. 8 Focheng West Road, Jiangning District, Nanjing, Jiangsu, 211106, People's Republic of China;Wu'an Water Resources Bureau, The northeast corner of the intersection of Qiaonan Street

and Minghu Road, Wu'an City, Handan City, Hebei Province, 056300, People's Republic of China ~72: DAI, Yu;HU, Rongjing;MA, Huilin;MA, Wenbo;SONG, Libing;SUN, Lei;WAN, Qingyu;WU, Mengsi;ZHANG, Xiaoli~ 33:CN ~31:2023236618976 ~32:29/12/2023

2024/02327 ~ Complete ~54:APPARATUS AND METHOD FOR EXTRACTING ENERGY FROM A FLUID ~71:Wave Swell Energy Limited, c/o Suite 4, Level 3, 20 George Street, HORNSBY 2077, NEW SOUTH WALES, AUSTRALIA, Australia ~72: DENNISS, Thomas~ 33:AU ~31:2016904200 ~32:17/10/2016;33:AU ~31:2017903451 ~32:26/08/2017

2024/02335 ~ Complete ~54:SEMI-FINISHED PRODUCT FOR PRODUCING A PHOTO BOOK, SET FOR PRODUCING A PHOTO BOOK, PHOTO BOOK AND A METHOD FOR PRODUCING A PHOTO BOOK. ~71:PELEMAN INDUSTRIES NV, Rijksweg 7, Belgium ~72: MORADIA, Pawan;PELEMAN, Guido Frans M.~ 33:BE ~31:20225367 ~32:16/05/2022

2024/02345 ~ Complete ~54:MATERIALS AND PROCESSES FOR GENERATING RADIOISOTOPE ~71:AdvanCell Isotopes Pty Limited, Level 7, 167 Macquarie Street, SYDNEY 2000, NEW SOUTH WALES, AUSTRALIA, Australia ~72: KELLY, Julian Frederick~ 33:AU ~31:2021902649 ~32:23/08/2021

2024/02309 ~ Complete ~54:METHOD FOR MANAGING HEALTH DATA THROUGH STAR CHAIN TECHNOLOGY ~71:GUIZHOU YUOPIN SLEEP HEALTH INDUSTRY CO., LTD, 4/F, No. 17, Smart Industrial Park, Bijiang District, Tongren City, People's Republic of China ~72: LIN, Yongming;LIU, Enping;LIU, Sujun;WANG, Shengxiang~

2024/02312 ~ Complete ~54:HEMOSTATIC MATERIAL AND PREPARATION METHOD THEREOF ~71:The Fourth Medical Center of Chinese People's Liberation Army General Hospital, 51 Fucheng Road, Haidian District, Beijing, 100048, People's Republic of China ~72: MA, Yue;WANG, Tianhao;WANG, Yiming;XUE, Chao;YU, Han;ZHENG, Guoquan~ 33:CN ~31:202311738342.9 ~32:18/12/2023

2024/02315 ~ Complete ~54:TOOL CASTING MOLD CAPABLE OF RAPID HEAT DISSIPATION ~71:Zhejiang Industry and Trade Vocational College, No. 301, Yanyun Road, Oujiangkou Industrial Agglomeration Area, Wenzhou City, Zhejiang Province, People's Republic of China ~72: Li Yong;Teng Shuzhen;Wang Shuguang;Zhang Yuefei;Zhu Shaojun~

2024/02330 ~ Complete ~54:COMPOSITIONS AND METHODS FOR THE TREATMENT OF VIRAL INFECTIONS ~71:CIDARA THERAPEUTICS, INC., 6310 Nancy Ridge Dr., Ste. 101, San Diego, California, 92121, United States of America ~72: ALAIN NONCOVICH;ALLEN BORCHARDT;DANIEL C BENSEN;JAMES M BALKOVEC;JASON COLE;LESLIE W TARI;QUYEN-QUYEN THUY DO;SIMON DOEHRMANN;THANH LAM;THOMAS P BRADY;WANLONG JIANG;ZHI-YONG CHEN~ 33:US ~31:62/727,821 ~32:06/09/2018;33:US ~31:62/746,865 ~32:17/10/2018;33:US ~31:62/782,119 ~32:19/12/2018;33:US ~31:62/788,386 ~32:04/01/2019;33:US ~31:62/813,463 ~32:04/03/2019;33:US ~31:62/815,235 ~32:07/03/2019;33:US ~31:62/832,992 ~32:12/04/2019;33:US ~31:62/840,899 ~32:30/04/2019;33:US ~31:62/852,075 ~32:23/05/2019;33:US ~31:62/859,983 ~32:11/06/2019;33:US ~31:62/873,678 ~32:12/07/2019;33:US ~31:62/890,475 ~32:22/08/2019

2024/02332 ~ Complete ~54:METHOD FOR PREPARING SULFIDE SOLID ELECTROLYTE MATERIAL AND APPLICATION THEREOF ~71:SHANGHAI FIRM-LITHIUM NEW ENERGY TECHNOLOGY CO., LTD., Southwest side of Building 4, No. 1215, Zhengjia Road, Lin-gang Special Area, (Shanghai) Pilot Free Trade Zone, Shanghai, 201306, People's Republic of China ~72: CHEN, Zhenying;ZHANG, Xi;ZHU, Jinhui~ 33:CN ~31:202111021844.0 ~32:01/09/2021

2024/02343 ~ Complete ~54:IMPROVING THE ANGLE DISCRETIZATION IN DECODER SIDE INTRA MODE DERIVATION ~71:InterDigital CE Patent Holdings, SAS, 3 rue du Colonel Moll, PARIS 75017, FRANCE, France ~72: BORDES, Philippe;DUMAS, Thierry;GALPIN, Franck;LE LEANNEC, Fabrice~ 33:EP ~31:21306345.6 ~32:28/09/2021

2024/02336 ~ Complete ~54:DYNAMIC ROCKBOLT ~71:FCI HOLDINGS DELAWARE, INC., 1105 North Market Street, Suite 1300, United States of America ~72: DODDS, Anthony~ 33:AU ~31:2021221472 ~32:24/08/2021

2024/02304 ~ Provisional ~54:TIMBER REINFORCED MINE SUPPORT UNIT ~71:Mining Product Developments (Pty)Ltd, 10 Vegkop Street, Noordheuwel, South Africa ~72: Frans Roelof Petrus Pienaar / Mark Howell~

- APPLIED ON 2024/03/25 -

2024/02350 ~ Provisional ~54:IRREDEEMABLE PROFIT SHARING DEBENTURE (IPSD) TOKEN ~71:Edwin Thabo Letopa, Unit 3 Clearwater Office Park , Struben Valley , Roodepoort, South Africa ~72: Edwin Thabo Letopa;Edwin Thabo Letopa (Pty) Ltd~

2024/02358 ~ Complete ~54:METHOD FOR PREPARING HIGH-PURITY HOUSEFLY ANTIMICROBIAL PEPTIDE SARCOTOXIN-1B ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467041, People's Republic of China ~72: BAI, Jie;FU, Pengfei;HONG, Jun;JI, Shuhui;LU, Min;SUN, Binbin;WANG, Dongmei;WANG, Yanhong;XIE, Zhaohui;ZHAO, Hongbei~

2024/02361 ~ Complete ~54:A CLOUD COMPUTING SYSTEM FOR EXTENDED BATTERY LIFE AND ENHANCED PERFORMANCE ~71:Dr. Bidesh Chakraborty, S/o. Shakti Pada Chakraborty, Associate Professor, Department of Computer Science & Engineering (Data Science), Haldia Institute of Technology, ICARE Complex, Hatiberia, Haldia, Purba Medinipur, West Bengal, 721657, India;Dr. Chiranjib Chakravartty, S/o Manomohan Chakraborty, Professor, Department of Biotechnology, Adamas University, Barasat - Barrackpore Road, Kolkata, West Bengal, 700126, India;Dr. Deepa Naik, D/o. Vishwanath Naik, Assistant Professor, Computer Science & Engineering, Dr. B. C. Roy Engineering College, Jemua Road, Fuljhore, Durgapur, West Bengal, 713206, India;Dr. Durga Prasad Sharma, S/o. Shri Ninua Ram Sharma, Professor & Research Adviser, M. A. I. S. M. Campus Under R. T. U., Ambabari Circle, Jaipur, Rajasthan, 302023, India;Dr. Manojit Bhattacharya, S/o. Biswanath Bhattacharya, Assistant Professor, Postgraduate - Department of Zoology, Fakir Mohan University, Vyasa Vihar, Balasore, Odisha, 756089, India;Dr. Santanu Koley, S/o. Siba Prasad Koley, Professor, Department of Computer Science & Engineering, Haldia Institute of Technology, ICARE Complex, Hatiberia, Haldia, Purba Medinipur, West Bengal, 721657, India;Patrali Pradhan, D/o. Sudhansu Sekhor Pradhan, Assistant Professor, Department of Computer Science & Engineering, Haldia Institute of Technology, ICARE Complex, Hatiberia, Haldia, Purba Medinipur, West Bengal, 721657, India;Rajesh Mukherjee, S/o. Ram Chandra Mukherjee, Assistant Professor, Department of Computer Science & Engineering, Haldia Institute of Technology, ICARE Complex, Hatiberia, Haldia., Purba Medinipur, West Bengal, 721657, India;Rajrupa Metia, D/o. Nishit Baran Metia, Assistant Professor, Department of Computer Science & Engineering, Haldia Institute of Technology, ICARE Complex, Hatiberia, Haldia, Purba Medinipur, West Bengal, 721657, India;Sonal Sameer Bawankule, W/o. Sameer Bawankule, Assistant Professor, Computer Science & Engineering, Priyadarshini J. L. College of Engineering, 846, New Nandanvan Layout, Nagpur, Maharashtra, 440009, India ~72: Dr. Bidesh Chakraborty;Dr. Chiranjib Chakravartty;Dr. Deepa Naik;Dr. Durga Prasad Sharma;Dr. Manojit Bhattacharya;Dr. Santanu Koley;Patrali Pradhan;Rajesh Mukherjee;Rajrupa Metia;Sonal Sameer Bawankule~ 33:IN ~31:202431004833 ~32:24/01/2024

2024/02364 ~ Complete ~54:METHOD FOR ELIMINATING BURNS AND SCALDS, WOUND INFECTIONS, AND FACIAL ACNE SCARS ~71:Xijie Ren, No.10 Fuxue Road, Changping District, Beijing, People's Republic of China ~72: Xijie Ren~ 33:CN ~31:2024102712061 ~32:11/03/2024



2024/02360 ~ Complete ~54:A METHOD AND SYSTEM FOR FORMULATING A MULTI-EPI TOPE PEPTIDE VACCINE AGAINST MONKEYPOX VIRUS ~71:Dr. Chiranjib Chakravartty, S/o. Manomohan Chakraborty, Professor, Department of Biotechnology, Adamas University, Barasat - Barrackpore Road, Kolkata, West Bengal, 700126, India;Dr. Manojit Bhattacharya, S/o. Biswanath Bhattacharya, Assistant Professor, Postgraduate - Department of Zoology, Fakir Mohan University, Vyasa Vihar, Balasore, Odisha, 756089, India;Dr. Santanu Koley, S/o. Siba Prasad Koley, Professor, Haldia Institute of Technology, ICARE Complex, Hatiberia, Haldia, Purba Medinipur, West Bengal, 721657, India;Sagnik Nag, S/o. Gobinda Nag, Masters Student, Department of Biotechnology, School of Biosciences & Technology, Vellore Institute of Technology (VIT), Tiruvalam Road, Vellore, Tamil Nadu, 632014, India;Srijan Chatterjee, S/o. Somnath Chatterjee, Masters Student, Institute for Skeletal Aging & Orthopedic Surgery, Hallym University - Chuncheon Sacred Heart Hospital, Chuncheon, Gangwon - Do, 24252, Republic of Korea ~72: Dr. Chiranjib Chakravartty;Dr. Manojit Bhattacharya;Dr. Santanu Koley;Sagnik Nag;Srijan Chatterjee~ 33:IN ~31:202431013916 ~32:27/02/2024

2024/02371 ~ Complete ~54:INFORMATION PROCESSING DEVICE, METHOD, AND PROGRAM ~71:Sony Group Corporation, 1-7-1, Konan, Minato-ku, TOKYO 1080075, JAPAN, Japan ~72: CHINEN, Toru;HATANAKA, Mitsuyuki;HONMA, Hiroyuki;NAMBA, Ryuichi;TOGURI, Yasuhiro;TSUJI, Minoru~ 33:JP ~31:2021-177285 ~32:29/10/2021;33:IB ~31:2022/000355 ~32:07/01/2022;33:IB ~31:2022/024014 ~32:15/06/2022

2024/02378 ~ Complete ~54:CELLULOSE NANOCRYSTAL STABILIZED CHEMICAL COMPOSITION ~71:Syngenta Crop Protection AG, Rosentalstrasse 67, BASEL 4058, SWITZERLAND, Switzerland ~72: COUGHLIN, Andrew James;DE HEER, Martine Ingrid;WILKINS, Lewis Charles~ 33:US ~31:63/262,525 ~32:14/10/2021

2024/02380 ~ Complete ~54:GIS-TYPE ZEOLITE, ADSORBENT, AND SEPARATION METHOD ~71:Asahi Kasei Kabushiki Kaisha, 1-1-2 Yurakucho, Chiyoda-ku, TOKYO 1000006, JAPAN, Japan ~72: AKAOGI, Takayuki;MAEDA, Saya;OKUBO, Atsushi~ 33:JP ~31:2021-173419 ~32:22/10/2021

2024/02392 ~ Complete ~54:COMPOUNDS AND METHODS FOR TREATMENT OF VIRAL INFECTIONS ~71:GILEAD SCIENCES, INC., 333 LAKESIDE DRIVE, FOSTER CITY, United States of America ~72: BUNYAN, ELAINE;CHUN, BYOUNG-KWON;DEMPAH, KASSIBLA E.;HUI, HON C.;KALLA, RAO V.;MACKMAN, RICHARD L.~ 33:US ~31:63/071,134 ~32:27/08/2020;33:US ~31:63/162,283 ~32:17/03/2021;33:US ~31:63/215,310 ~32:25/06/2021

2024/02369 ~ Complete ~54:COMPOSITIONS AND METHODS FOR TREATING OR PREVENTING INFLAMMATORY DISEASES INCLUDING DIABETES AND THYROID DISEASES ~71:ALKALAY, Rachel, Museum Tower, 6-7th Fl., 4 Berkovitz Street, Israel ~72: ALKALAY, Rachel~ 33:US ~31:63/247,328 ~32:23/09/2021

2024/02359 ~ Complete ~54:PREPARATION METHOD FOR CARBON QUANTUM DOTS ~71:Xinyu University, No. 2666 Sunshine Avenue, High tech Zone, Xinyu City, Jiangxi Province, 338004, People's Republic of China ~72: FU, Haiyan;FU, Kai;HUANG, Jianhua;HUANG, Ping;HUANG, Xuewen;LIU, Lei;XIAO, Zonghu;ZHONG, Wei~

2024/02363 ~ Complete ~54:DETACHABLE CAROTID SINUS MASSAGE DEVICE FOR RELIEVING CARDIAC ARRHYTHMIAS ~71:The Second Affiliated Hospital of Nanchang University, No.1 Minde Road, Donghu District, Nanchang City, Jiangxi Province, People's Republic of China ~72: Hualong Liu;Jin Zhu Hu;Kui Hong;Qianghui Huang;Rong Wan;Yang Shen;Zhenzhen Ju~

2024/02373 ~ Complete ~54:HERBICIDAL IMIDAZOLE COMPOUNDS ~71:Syngenta Crop Protection AG, Rosentalstrasse 67, BASEL 4058, SWITZERLAND, Switzerland ~72: DALE, Suzanna;ELVES, Philip Michael;KINGSTON, Charles William Frederick;MORRIS, James Alan;WATKIN, Samuel Vaughan~ 33:GB ~31:2114863.0 ~32:18/10/2021

2024/02354 ~ Complete ~54:A MACHINING CUTTING DEVICE ~71:Wenzhou Polytechnic, University Town, Chashan and Jiangjiaqiao 81, Wenzhou, Zhejiang, People's Republic of China ~72: Zheng Mosi~

2024/02357 ~ Complete ~54:A NATURAL COMPOSITION OF DUAL INHIBITORS FOR EFFICIENT DIABETES MANAGEMENT ~71:Atul R. Bendale, S/o. Rupchand K. Bendale, Flat No. 102, Riddheesh Residency, Santaji Nagar, Kala Nagar Chowk, Indira Nagar, Nashik, Maharashtra, 422009, India;Johra Khan, W/o. Mohammad Ashraf Ali, Chirawak Village, Gwalati Post, Bulandshahar, Uttar Pradesh, 245408, India;Mithun Rudrapal, S/o. Hiralal Rudrapal, D. No. 135, Dakshin Pulipur, Howaibari Post, Teliamura, Khowai, Tripura, 799205, India ~72: Atul R. Bendale;Johra Khan;Mithun Rudrapal~ 33:IN ~31:202431009315 ~32:12/02/2024

2024/02355 ~ Complete ~54:A DEVICE FOR REMOVING BURRS ON METALWORKING SURFACES ~71:Wenzhou Polytechnic, University Town, Chashan and Jiangjiaqiao 81, Wenzhou, Zhejiang, People's Republic of China ~72: Zheng Mosi~

2024/02351 ~ Provisional ~54:BRICK HOOK ~71:Antonie Coetzee, 77 Burt Drive , Cotswold Extension , 6045 , Port Elizabeth, South Africa ~72: Antonie Coetzee~

2024/02356 ~ Complete ~54:A FEEDING DEVICE FOR RIVETING MACHINES ~71:Wenzhou Polytechnic, University Town, Chashan and Jiangjiaqiao 81, Wenzhou, Zhejiang, People's Republic of China ~72: Zheng Mosi~

2024/02362 ~ Complete ~54:A WATER MIST DEVICE FOR PIPE ROOF DRILL ~71:CCCC FIRST HIGHWAY ENGINEERING GROUP, Shitong Building A, Zhoujiajing, Guanzhuang, Chaoyang District, Beijing, 100000, People's Republic of China;China Communications Construction Co., Ltd. Rail Transit Branch, Room 423, Building 3, Future Iron and Steel Research Institute, Yingcai North Second Street, Future Science City, Changping District, Beijing, People's Republic of China;Sichuan Longjian Engineering Consulting Co., Ltd., Block B, 19F, Sichuan International Building, 206 Shuncheng Street, Chengdu, Sichuan, People's Republic of China;THIRD ENGINEERING CO.,LTD OF CCCC FIRST HIGHWAY ENGINEERING GROUP, No. 10 Jingsheng North Third Street, Jinqiao Science and Technology Industrial Base, Tongzhou Park, Zhongguancun Science and Technology Park, Tongzhou District, Beijing, 101102, People's Republic of China ~72: Jialiang GUO;Nan CUI;Qingshi LI;Wei LI;Wenjing DUAN;Wentao LIU;Zhenwei ZHOU;Zhenxi AI;Zhijia ZHU;Zhiqiang FU~

2024/02365 ~ Complete ~54:COMPOSITIONS AND SYSTEMS COMPRISING TRANSFECTION-COMPETENT VESICLES FREE OF ORGANIC-SOLVENTS AND DETERGENTS AND METHODS RELATED THERETO ~71:THE UNIVERSITY OF BRITISH COLUMBIA, 103-6109 Agronomy Road , Vancouver, British Columbia, V6T 1Z4, Canada ~72: AUSTIN HILL;BLAIR LEAVITT;JAYESH KULKARNI;PAMELA WAGNER;PIETER CULLIS;TERRI PETKAU~ 33:US ~31:62/743,116 ~32:09/10/2018

2024/02376 ~ Complete ~54:PEDESTAL BEARING AND PRODUCTION PLANT WITH SUCH A PEDESTAL BEARING ~71:Primetals Technologies Austria GmbH, Turmstraße 44, LINZ 4031, AUSTRIA, Austria ~72: DIRNBERGER, Gregor;HOHENBICHLER, Gerald;POEPPL, Johann;WIMMER, Franz;ZEMNI, Marvin~ 33:EP ~31:21199895.0 ~32:29/09/2021

2024/02384 ~ Complete ~54:HISTORY-BASED RICE PARAMETER DERIVATIONS FOR WAVEFRONT PARALLEL PROCESSING IN VIDEO CODING ~71:INNOPEAK TECHNOLOGY, INC., 2479 E. Bayshore Rd., Suite 110 Palo Alto, California, 94303, United States of America ~72: HAOPING YU;YUE YU~ 33:US ~31:63/260,600 ~32:26/08/2021;33:US ~31:63/251,385 ~32:01/10/2021;33:US ~31:63/262,078 ~32:04/10/2021

2024/02377 ~ Complete ~54:AUTO INJECTOR WITH MEASUREMENT OF BATTERY CAPACITY LEFT BEFORE RE-CHARGING IS REQUIRED ~71:Ascendis Pharma A/S, Tuborg Boulevard 12, HELLERUP 2900,

DENMARK, Denmark ~72: ARREDONDO, Abel;CHRISTENSEN, John Nørskov;EGESBORG, Henrik;JENSEN, Kurt Stæcker~ 33:EP ~31:21200271.1 ~32:30/09/2021

2024/02381 ~ Complete ~54: DRY POWDER MEDICAMENT INHALER ~71: Norton (Waterford) Limited, Unit 301 IDA Industrial Park, Cork Road, WATERFORD X91 WK68, IRELAND, Ireland ~72: BUCK, Daniel;CROWLEY, Peter John;GOTTESMAN, Josh;HAZENBERG, Jan Geert~ 33:GB ~31:2113921.7 ~32:29/09/2021;33:GB ~31:2200986.4 ~32:26/01/2022

2024/02383 ~ Complete ~54:IMIDAZO[1,2-A]PYRIDINE DERIVATIVES ~71:Syngenta Crop Protection AG, Rosentalstrasse 67, BASEL 4058, SWITZERLAND, Switzerland ~72: BLUM, Mathias;GERMAIN, Nicolas;JEANMART, Stephane André Marie;LUMBROSO, Alexandre Franco Jean Camille;POULIOT, Martin~ 33:EP ~31:21202562.1 ~32:14/10/2021;33:EP ~31:22183563.0 ~32:07/07/2022

2024/02368 ~ Complete ~54:PERIODONTAL MICRONEEDLE LOADED WITH NIR RESPONSIVE COMPOSITE BILIRUBIN NANOPARTICLES AND PREPARATION METHOD THEREOF ~71:STOMATOLOGICAL HOSPITAL OF CHONGQING MEDICAL UNIVERSITY, No. 426, Songshi North Road, Yubei District, Chongqing, 401147, People's Republic of China ~72: GAO, Xiang;SONG, Jinlin;WANG, Yue;YU, Wenliang~ 33:CN ~31:202310352354.1 ~32:04/04/2023

2024/02366 ~ Complete ~54:CANNABIDIOL (CBD) E-LIQUID DELIVERY VEHICLES FOR THERAPEUTIC/NUTRACEUTICAL ADMINISTRATION BY VAPORISATION ~71:CSIR, Scientia, Meiring Naude Road, Brummeria, Pretoria, 0184, South Africa ~72: ATLEGANG KELEBOGILE NYAKALE;BRYLYNE CHITSUNGE;KATLEGO ZEBEDIUS SETSHEDI;LERATO HLEKELELE;LONJI KALOMBO~ 33:ZA ~31:2023/03797 ~32:24/03/2023

2024/02370 ~ Complete ~54:TWO-PHASE CONNECTOR ~71:ZELUP, 38 RUE DE L'UNIVERSITÉ, 69007 LYON, FRANCE, France ~72: ISSLER, Thomas~ 33:FR ~31:FR2110341 ~32:30/09/2021

2024/02372 ~ Complete ~54:COMPOUNDS AND METHODS FOR SKIPPING EXON 44 IN DUCHENNE MUSCULAR DYSTROPHY ~71:Entrada Therapeutics, Inc., One Design Center Place, Suite 17-500, BOSTON 02210, MA, USA, United States of America ~72: ESTRELLA, Nelsa;GIRGENRATH, Mahsweta;KHEIRABADI, Mahboubbeh;LI, Xiang;LIAN, Wenlong;QIAN, Ziqing;SETHURAMAN, Natarajan;WYSK, Mark~ 33:US ~31:63/239,645 ~32:01/09/2021;33:US ~31:63/239,671 ~32:01/09/2021;33:US ~31:63/290,960 ~32:17/12/2021;33:US ~31:63/292,685 ~32:22/12/2021;33:US ~31:63/298,565 ~32:11/01/2022;33:US ~31:63/268,577 ~32:25/02/2022;33:US ~31:63/268,580 ~32:25/02/2022;33:US ~31:63/362,294 ~32:31/03/2022;33:US ~31:63/362,423 ~32:04/04/2022;33:US ~31:63/337,560 ~32:02/05/2022;33:US ~31:63/354,456 ~32:22/06/2022

2024/02374 ~ Complete ~54:POLYPEPTIDE FUSION MOLECULE CLOSE TO NATURAL MOLECULE ~71:TIOC Therapeutics, Ltd., Room 706, Building 21, Hexiang Technology Center, Xiasha Street, Qiantang District, HANGZHOU 310018, ZHEJIANG, CHINA (P.R.C.), People's Republic of China ~72: LI, Yi;TIAN, Ye~ 33:CN ~31:202110990796.X ~32:26/08/2021

2024/02375 ~ Complete ~54:SYSTEM AND METHOD FOR HARVESTING GEOTHERMAL ENERGY FROM A SUBTERRANEAN FORMATION ~71:Colorado School of Mines, 1500 Illinois Street, GOLDEN 80401, CO, USA, United States of America ~72: FLECKENSTEIN, William W.~ 33:US ~31:63/237,425 ~32:26/08/2021;33:US ~31:63/400,687 ~32:24/08/2022

2024/02385 ~ Complete ~54:OPERATION RANGE EXTENSION FOR VERSATILE VIDEO CODING ~71:INNOPEAK TECHNOLOGY, INC., 2479 E. Bayshore Rd., Suite 110, Palo Alto, California 94303, United

States of America, United States of America ~72: HAOPING YU;YUE YU~ 33:US ~31:63/260,600  
~32:26/08/2021;33:US ~31:63/251,385 ~32:01/10/2021;33:US ~31:63/262,078 ~32:04/10/2021

2024/02387 ~ Complete ~54:LOW-DENSITY HIGH-PERFORMANCE GLASS FIBER COMPOSITION, GLASS FIBER AND COMPOSITE MATERIAL THEREOF ~71:JUSHI GROUP CO., LTD., Jushi Science & Technology Building 669 Wenhua Road (South), Tongxiang Economic Development Zone, Tongxiang, Zhejiang, 314500, People's Republic of China ~72: GUORONG CAO;JUAN LIU;LIN ZHANG;WENZHONG XING;YUNFENG CHAI;ZHONGHUA YAO~ 33:CN ~31:202310319034.6 ~32:29/03/2023

2024/02379 ~ Complete ~54:A UV GERMICIDAL TREATMENT SYSTEM FOR OPAQUE LIQUIDS ~71:LyraS DK ApS, Lyngvej 3, AALBORG 9000, DENMARK, Denmark ~72: MATHIAS, Kristensen;MORTENSEN, Rasmus~ 33:DK ~31:PA202170485 ~32:01/10/2021

2024/02382 ~ Complete ~54:ACID MIST SUPPRESSION IN COPPER ELECTROWINNING ~71:Freeport Minerals Corporation, 333 North Central Avenue, PHOENIX 85004, AZ, USA, United States of America ~72: GEBREHIWOT, Ephrem Lemlem;SANDERS, William Duane;SANDOVAL, Scot Philip;TALLMAN, Stanberg Lee;TYAB, Aron~ 33:US ~31:63/253,349 ~32:07/10/2021;33:US ~31:63/297,842 ~32:10/01/2022

2024/02386 ~ Complete ~54:GENE SEQUENCE CONSTRUCT FOR GENE THERAPY FOR HIV INFECTION ~71:KANGLIN BIOTECHNOLOGY (HANGZHOU) CO., LTD., Room 301, Building No. 4, No. 291, Fucheng Road, Economic And Technological Development Zone, Hangzhou, Zhejiang, 310018, People's Republic of China ~72: BAOZHEN SUN;HAOQUAN WU;YING DANG~ 33:CN ~31:PCT/CN2021/115420 ~32:30/08/2021

2024/02388 ~ Provisional ~54:INTELLIGENCE DRIVEN COMMUNITY POLICING ~71:DR. EZEJI CHIJ I LONGINUS, 282 BALKONE 12 AVENUE, GEZINA, South Africa ~72: DR. EZEJI CHIJ I LONGINUS ~

- APPLIED ON 2024/03/26 -

2024/02430 ~ Complete ~54:SYSTEMS AND METHODS FOR LINEAR ALPHA OLEFINS PRODUCTION ~71:SABIC GLOBAL TECHNOLOGIES B.V., Plasticlaan 1, Netherlands ~72: ASHRI, Abdulrahman;HAZZAA, Zaid Bin~ 33:EP ~31:21199661.6 ~32:29/09/2021

2024/02429 ~ Complete ~54:CYP11A1 INHIBITOR FOR USE IN THE TREATMENT OF PROSTATE CANCER ~71:Orion Corporation, Orionintie 1, ESPOO 02200, FINLAND, Finland ~72: IKONEN, Tarja;VUORELA, Annamari~ 33:FI ~31:20217146 ~32:28/09/2021

2024/02393 ~ Complete ~54:TUBERCULOSIS VIRUS-LIKE PARTICLES AND PREPARATION METHOD AND APPLICATION THEREOF ~71:PLA NAVY MEDICAL UNIVERSITY, No. 800, Xiangyin Road, Yangpu District, People's Republic of China ~72: TIAN, Yini;ZHANG, Dongmei;ZHANG, Yilong;ZHOU, Fangbin~ 33:CN ~31:2024100728050 ~32:18/01/2024

2024/02396 ~ Complete ~54:HYDROPNEUMATIC SYSTEM PROVIDED WITH HYDROPNEUMATIC CYLINDERS FOR SUSPENSIONS OF VEHICLE WHEEL ASSEMBLIES, AND RELATIVE VEHICLE ~71:Cometto S.p.A., Via Cuneo, 20, BORGO SAN DALMAZZO (CN) 12011, ITALY, Italy ~72: FICKERS, Alexander;FRONI, Francesco;GHIGLIONE, Stefano;GIORDANO, Gabriele;LIPPI, Fabrizio;MARTINI, Alessandro~ 33:IT ~31:102023000005817 ~32:27/03/2023

2024/02404 ~ Complete ~54:COMPOSITIONS AND METHODS FOR EXPRESSING FACTOR IX FOR HEMOPHILIA B THERAPY ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: BAIK, Andrew;CALAFATI, Philip;CYGNAR, Katherine;KATAKOWSKI, Joseph;KYRATSOUS, Christos;MOLLER-TANK, Sven;PEFANIS, Evangelos;SABIN, Leah;SAMAI, Poulami~

33:US ~31:63/272,324 ~32:27/10/2021;33:US ~31:63/306,037 ~32:02/02/2022;33:US ~31:63/369,864 ~32:29/07/2022

2024/02423 ~ Complete ~54:PROTEINS BINDING NKG2D, CD16 AND BAFF-R ~71:Dragonfly Therapeutics, Inc., 35 Gatehouse Drive, WALTHAM 02451, MA, USA, United States of America ~72: BELLI, Aaron;CHEUNG, Ann F.;DRABIC, Stacey V.;FALLON, Daniel;FISCHER, Benjamin;GRINBERG, Asya;HEIN, Pyae P.;IVANOV, Alexander;JUO, Zong Sean;LEWANDOWSKI, Mark;LI, Xinbi;SCHNEIDER, Matthew~ 33:US ~31:63/250,160 ~32:29/09/2021

2024/02437 ~ Complete ~54:AN EXCAVATOR WEAR ASSEMBLY ~71:CQMS PTY LTD, C/- James and Wells, Australia ~72: ASHBY, Ian;BECK, Samuel;HUME, David;LAWLER, Todd;LILLEY, Bruce;WATERMAN, Brendan~ 33:AU ~31:2021903375 ~32:21/10/2021

2024/02390 ~ Provisional ~54:ELECTRICAL CONTACT ~71:VAN ZYL, Pieter Willem Jordaan, 12 Jukskei Road, South Africa ~72: VAN ZYL, Pieter Willem Jordaan~

2024/02399 ~ Complete ~54:WIND-WAVE IMPACT TEST SYSTEM FOR JACK-UP OFFSHORE PLATFORM ~71:ZHEJIANG INTERNATIONAL MARITIME COLLEGE, No. 268, Haitian Avenue, Lincheng New District, Zhoushan City, People's Republic of China ~72: LIU, Zailiang;ZHANG, Bo~

2024/02405 ~ Complete ~54:PALLET INSPECTION SYSTEM AND ASSOCIATED METHODS ~71:CHEP TECHNOLOGY PTY LIMITED, Level 29, 255 George Street, Sydney, Australia ~72: CONEJO, Sergio;GEROU, Christopher J.;SOOMRO, Khurram~ 33:US ~31:63/262,452 ~32:13/10/2021;33:US ~31:18/045,579 ~32:11/10/2022

2024/02407 ~ Complete ~54:HETEROCYCLIC COMPOUNDS FOR USE IN THE TREATMENT OF CANCER ~71:ARTIOS PHARMA LIMITED, Babraham Hall, Babraham Research Campus, United Kingdom ~72: DAVIS, Owen;FINCH, Harry;HEALD, Robert;MANN, Sam;STOCKLEY, Martin~ 33:GB ~31:2115156.8 ~32:21/10/2021

2024/02401 ~ Complete ~54:ARTIFICIAL INTELLIGENT EXHIBITION TABLE WITH FILL-IN LIGHT REGULATED ON BASIS OF LIGHT SENSATION CHANGES ~71:HEBEI CHEMICAL AND PHARMACEUTICAL COLLEGE, No. 88 Fangxing Road, Yuhua District, Shijiazhuang, Hebei, 050026, People's Republic of China ~72: DONG, Yalei~

2024/02408 ~ Complete ~54:METHODS AND PRODUCTS FOR TREATING SUBJECTS WITH AUTISM SPECTRUM DISORDERS ~71:NEURIM PHARMACEUTICALS (1991) LTD., 27 HaBarzel Street, Israel ~72: LAUDON, Moshe;ZISAPEL, Nava~ 33:US ~31:63/251,935 ~32:04/10/2021

2024/02420 ~ Complete ~54:RESMETIROM FOR REDUCING LIVER VOLUME ~71:Madrigal Pharmaceuticals, Inc., Four Tower Bridge, 200 Barr Harbor Drive, Suite 200, WEST CONSHOHOCKEN 19428, PA, USA, United States of America ~72: TAUB, Rebecca~ 33:US ~31:63/248,634 ~32:27/09/2021

2024/02422 ~ Complete ~54:METHODS FOR SEPARATING MOLECULAR SPECIES OF GUANINE-RICH OLIGONUCLEOTIDES ~71:Amgen Inc., One Amgen Center Drive, THOUSAND OAKS 91320-1799, CA, USA, United States of America ~72: DUFF, Robert J.;LIPPENS, Jennifer;SCHILLINGER, Helena~ 33:US ~31:63/250,650 ~32:30/09/2021

2024/02435 ~ Complete ~54:NITROGEN-CONTAINING TRICYCLIC COMPOUND AND PHARMACEUTICAL USE THEREOF ~71:JAPAN TOBACCO INC., 1-1, Toranomon 4-chome, Minato-ku, Tokyo, 1056927, Japan ~72: HIROSHI UENO;KOICHI SUZAWA;MAKI YAMAKAWA;TOMOYA YAMASHITA;TOMOYUKI MANABE~ 33:JP ~31:2021-142742 ~32:01/09/2021



2024/02398 ~ Complete ~54:A COMPOSITION FOR USE IN INHIBITING SPONTANEOUS COMBUSTION OF COAL SLOPES ~71:KUPHELA ENVIRONMENTAL SOLUTIONS (PTY) LTD, 1st Floor, Block 3, Beaulieu Office Park, Corner Stallion and Papenfus Drive, South Africa ~72: BUCKLE, Johannes Daniel~ 33:ZA ~31:2023/04155 ~32:05/04/2023

2024/02402 ~ Complete ~54:ARTIFICIAL INTELLIGENT FACE RECOGNITION DEVICE HAVING TEMPERATURE MEASUREMENT STRUCTURE ~71:HEBEI CHEMICAL AND PHARMACEUTICAL COLLEGE, No. 88 Fangxing Road, Yuhua District, Shijiazhuang, Hebei, 050026, People's Republic of China ~72: DONG, Yalei~

2024/02406 ~ Complete ~54:DETECTION OF HEAT TREATED MARKINGS ON A WOODEN PALLET ~71:CHEP TECHNOLOGY PTY LIMITED, Level 29, 255 George Street, Sydney, Australia ~72: ARGIBAY CAÑAS, José Manuel;COHEN, Elazar;GEROU, Christopher J.;HIDALGO, Francisco Jesus;SAFRAN, Moshe;SOOMRO, Khurram;TOMER, Daniel;ZAZO DE LA ROCHA, Miguel Ángel~ 33:US ~31:63/262,453 ~32:13/10/2021;33:US ~31:18/045,586 ~32:11/10/2022

2024/02409 ~ Complete ~54:NAPHTHYRIDINONE DERIVATIVES FOR THE TREATMENT OF A DISEASE OR DISORDER ~71:NOVARTIS AG, Lichtstrasse 35, Switzerland ~72: CHANG, Xingjuan;CHEUNG, Atwood Kim;GAI, Yu;GE, Heng;LIU, Donglei;PEUKERT, Stefan~ 33:US ~31:63/282,492 ~32:23/11/2021;33:CN ~31:PCT/CN2022/128601 ~32:31/10/2022

2024/02428 ~ Complete ~54:ZONED THREE-WAY CONVERSION CATALYSTS COMPRISING PLATINUM, PALLADIUM, AND RHODIUM ~71:BASF Corporation, 100 Park Avenue, FLORHAM PARK 07932, NJ, USA, United States of America ~72: DUMBUYA, Karifala;JI, Chunxin;JOHNSON, Stephen;LI, Yuejin;RAVINDRAN, Pramod;SUN, Yipeng;SUNG, Shiang;TRAN, Pascaline;ZHENG, Xiaolai~ 33:EP ~31:21197341.7 ~32:17/09/2021

2024/02427 ~ Complete ~54:NOVEL LIPIDS FOR DELIVERY OF NUCLEIC ACID SEGMENTS ~71:AstraZeneca AB, SÖDERTÄLJE SE-151-85, SWEDEN, Sweden ~72: KRISHNAMURTHY, Venkata R.;LINDFORS, Lennart;ULKOSKI, David~ 33:US ~31:63/271,960 ~32:26/10/2021

2024/02425 ~ Complete ~54:SUBCUTANEOUS ADMINISTRATION OF CD19-BINDING T CELL ENGAGING ANTIBODIES ~71:Amgen Research (Munich) GmbH, Staffelseestrasse 2, MUNICH 81477, GERMANY, Germany ~72: ZUGMAIER, Gerhard~ 33:US ~31:63/256,056 ~32:15/10/2021;33:US ~31:63/281,992 ~32:22/11/2021

2024/02410 ~ Complete ~54:NEW ORAL PHARMACEUTICAL COMPOSITION AND DOSE REGIMEN FOR THE THERAPY OF PROGRESSIVE FIBROSING INTERSTITIAL LUNG DISEASES ~71:BOEHRINGER INGELHEIM INTERNATIONAL GMBH, Binger Strasse 173, Germany ~72: BAUER, Verena;BOSSERT, Sebastian Martin;HESSLINGER, Christian;KOBBER, Susan;LIU, Yi;NICKOLAUS, Peter;SARNO, Maria;VOSS, Florian~ 33:US ~31:63/287,642 ~32:09/12/2021;33:EP ~31:21218202.6 ~32:29/12/2021;33:EP ~31:22177750.1 ~32:08/06/2022

2024/02412 ~ Complete ~54:DUAL CHAMBERED PROTECTIVE MASK AND FRAME INSERT FOR FORMING THE SAME ~71:RODAN ENTERPRISES, LLC, 19 Short Road Doylestown,, United States of America;RUSSIKOFF, Ronald, K., 717 S. Columbus Boulevard, Unit 1008, United States of America ~72: RUSSIKOFF, Ronald, K.~ 33:US ~31:63/360,142 ~32:08/09/2021

2024/02414 ~ Complete ~54:THRUST DEVICE ~71:QACHA, Rojane Paul, 135 Chianti Estate, 39 Leeuwkop Road, 2191, Sunninghill, Gauteng, South Africa ~72: QACHA, Rojane Paul~ 33:ZA ~31:2021/05045 ~32:19/07/2021

2024/02418 ~ Complete ~54:COMPOSITIONS AND PROCESSES FOR THE EXTRACTION OF METALS USING NON-AQUEOUS SOLVENTS ~71:Argo Natural Resources Limited, Lynton House 7-12 Tavistock Square, LONDON WC1H 9BQ, UNITED KINGDOM, United Kingdom ~72: HARRIS, Robert;JENKIN, Gawen~ 33:GB ~31:2113800.3 ~32:27/09/2021

2024/02433 ~ Complete ~54:A CORNER INSERT FOR FORMWORK PANELS ~71:PERI SE, Rudolf-Diesel-Strasse 19, Germany ~72: ARUN, KS;FRANCESCONI, Davide;GIRARDI, Marco;RAO, CNVS;ROUTH, Anibrata;SHARANAPPA, A~ 33:IN ~31:202111045993 ~32:08/10/2021

2024/02434 ~ Complete ~54:CLEANSING COMPOSITION ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: RAFAEL ASTOLFI;SERGIO ROBERTO LEOPOLDINO;YURIY KONSTANTINOVICH YAROVY~ 33:EP ~31:21199326.6 ~32:28/09/2021

2024/02417 ~ Complete ~54:MOBILE GENERATOR CHARGING SYSTEM AND METHOD ~71:DER-X HOLDINGS LLC, 16192 Coastal Highway, United States of America ~72: RICKETTS, Jeffrey James~ 33:US ~31:63/247,586 ~32:23/09/2021;33:US ~31:17/950,701 ~32:22/09/2022

2024/02391 ~ Provisional ~54:HAND TOOL GUIDE ~71:HAWTHORN, Trevor Dean, No. 10 Willow Lane, Winterskloof, South Africa ~72: HAWTHORN, Trevor Dean~

2024/02394 ~ Complete ~54:MULTI-ANGLE DUST REMOVAL EQUIPMENT FOR MINE BLASTING ~71:Anhui Jiangnan Blasting Engineering Co., Ltd, East Zone of Huifeng Garden, Shanmen North Road, Ningguo City, Anhui Province, 242399, People's Republic of China ~72: FAN Baolong;GAO Pengfei;GE Lifang;LUO Jiangtao;MA Guoqiang;WANG Gang;YAN Bo;YANG Ling;ZHOU Xing~

2024/02397 ~ Complete ~54:INTERLOCK PIPE HUB CLAMP ASSEMBLY ~71:SCHOLTZ, Johann, 2 Osborn Road, Wadeville, South Africa ~72: SCHOLTZ, Johann~ 33:ZA ~31:2023/03979 ~32:30/03/2023

2024/02403 ~ Complete ~54:ANTI-HER3 ANTIBODY DRUG CONJUGATE, COMPOSITION THEREOF, AND USE THEREOF ~71:CHIA TAI TIANQING PHARMACEUTICAL GROUP CO., LTD., No.369 Yuzhou South Rd., Lianyungang, People's Republic of China ~72: CHEN, Tianxi;FENG, Weiwei;TANG, Xiaoqi;XU, Tongjie;ZHANG, Zhengping~ 33:CN ~31:202111085308.7 ~32:16/09/2021

2024/02436 ~ Complete ~54:A CONDUCTIVE YARN ~71:CARRARO S.R.L., Via Sareia, 7 28040 Paruzzaro (NO), Italy ~72: RINALDO CARRARO~ 33:IT ~31:102021000024659 ~32:27/09/2021

2024/02426 ~ Complete ~54:PEPTIDE DENDRONS AND METHODS OF USE THEREOF ~71:AstraZeneca AB, SÖDERTÄLJE SE-151-85, SWEDEN, Sweden ~72: CHRISTIE, Ronald James;URELLO, Morgan Audrey;VAUGHAN, Hannah~ 33:US ~31:63/262,269 ~32:08/10/2021

2024/02431 ~ Complete ~54:SUBSTITUTED 1H-PYRAZOLO [4,3-C] QUINOLINES, METHODS OF PREPARATION, AND USE THEREOF ~71:LOMOND THERAPEUTICS, INC., 12730 High Bluff Drive, Suite 100, United States of America ~72: ABAGYAN, Ruben;IVACHTCHENKO, Alexandre Vasilievich;MITKIN, Oleg;PARCHINSKY, Vladislav Zenonovich;PUSHECHNIKOV, Alexei;SAVCHUK, Nikolay~ 33:US ~31:63/256,260 ~32:15/10/2021

2024/02395 ~ Complete ~54:INVENTION RELATES TO GRADED PEANUT SHELL BREAKING MACHINE WITH SCREENING FUNCTION ~71:Huzhou Vocational and Technical College, No.299,Xuefu Road, Wuxing District, Huzhou City, Zhejiang Province, 313000, People's Republic of China;Zhejiang Sci-Tech University, No.928, No.2 Street, Xiasha Higher Education Park, Hangzhou, Zhejiang Province, 310018, People's Republic of China ~72: CHEN Liquan;PENG Qiang;SHEN Qiqi;WANG Rongyang;YAN Liqiang~

2024/02400 ~ Complete ~54:ROCK CORE CATCHING DEVICE FOR UNDERGROUND DRILLING ~71:Institute of Hydrogeology and Environmental Geology, Chinese Academy of Geological Sciences, 268 Zhonghua North Street, Shijiazhuang City, Hebei Province, 050061, People's Republic of China ~72: Cui Shangjin;Liu Pengfei;Liu Xuequan;Meng Lingqun;Zhu Pucheng~ 33:CN ~31:202311445411.7 ~32:02/11/2023

2024/02413 ~ Complete ~54:USE OF A FEED ADDITIVE IN LOW ENERGY FEED FOR PIGS ~71:Alzchem Trostberg GmbH, Dr.-Albert-Frank-Strasse 32, Germany ~72: Judith RINGEL;Peter LOIBL~ 33:DE ~31:10 2021 126 581.9 ~32:13/10/2021

2024/02416 ~ Complete ~54:METHOD OF NAVIGATING AN AUTOMATED GUIDED VEHICLE FOR INTERNAL LOGISTICS AND A SYSTEM FOR ITS IMPLEMENTATION ~71:TECHNICKA UNIVERZITA V LIBERCI, Studentska 1402/2, Czech Republic ~72: David KRCMARIK;Jan KOCL;Jaroslav HLAVA;Jindrich CYRUS~

2024/02421 ~ Complete ~54:FACILITY FOR HIGH-SPEED PROCESSING OF NEWLY HATCHED BIRDS ~71:Egg-Chick Automated Technologies, Rue Alfred Nobel, Zone Industrielle du Vern, LANDIVISIAU 29400, FRANCE, France ~72: BOYER, William;MALET, Bertrand;PENGLOAN, Johann;TARVYDAS, Johan~ 33:FR ~31:2110240 ~32:29/09/2021

2024/02438 ~ Provisional ~54:CAPNAV - CAPSIZE ALERT AND POSITION NAVIGATION ~71:Gerhard Britz, , 529 7th street, South Africa ~72: Gerhard Britz~ 33:ZA ~31:1 ~32:01/03/2024

2024/02424 ~ Complete ~54:TRANSMISSION ASSEMBLY FOR SWITCHBOX ~71:General Equipment and Manufacturing Company, Inc. d/b/a Topworx, Inc., 3300 Fern Valley Road, LOUISVILLE 40213, KY, USA, United States of America ~72: PEYTON, Jason B.;STUMBO, Briana N.~ 33:US ~31:63/250,844 ~32:30/09/2021;33:US ~31:17/571,388 ~32:07/01/2022

2024/02411 ~ Complete ~54:HANDS-FREE DEVICES AND METHODS FOR THE PREVENTION AND TREATMENT OF MIGRAINES AND OTHER HEAD AND NECK DISORDERS ~71:PARNES, Jason, Michael, 25 EAST CALVARY DRIVE, NEW CITY, NY 10956, USA, United States of America ~72: PARNES, Jason, Michael~ 33:US ~31:63/238,832 ~32:31/08/2021;33:US ~31:17/822,967 ~32:29/08/2022

2024/02415 ~ Complete ~54:A TINCTURE FOR TREATING BURNS AND SCALDS AND A PREPARATION METHOD THEREOF ~71:Shan Hua, Room 118, No.235 Lianshan Road, Pingyi County, Linyi, Shandong, People's Republic of China ~72: Chenming Hua;Kefu Wang;Lingyi Kong;Mingjian Hua;Teng Hua;Xianfeng Du;Xiang Li;Xiangang Gong;Xin Gong;Yanhong Li~

2024/02419 ~ Complete ~54:ANTI-PSMA ANTIBODIES AND USES THEREOF ~71:Janssen Biotech, Inc., 800/850 Ridgeview Drive, HORSHAM 19044, PA, USA, United States of America ~72: GOLDBERG, Shalom;KLEIN, Donna;KOHLLI, Neeraj;MCDEVITT, Theresa;ORCUTT, Steven J.~ 33:US ~31:63/237,663 ~32:27/08/2021

2024/02432 ~ Complete ~54:FRET ENZYMATIC SUBSTRATE AND USES THEREOF IN LIVER CANCER ~71:URTESTE S.A., ul. Starodworska 1, Poland ~72: GRUBA, Natalia;LESNER, Adam~ 33:PL ~31:P.439405 ~32:03/11/2021

- APPLIED ON 2024/03/27 -

2024/02443 ~ Provisional ~54:PASSENGER MONITORING SYSTEM ~71:CUBAN TECHNOLOGY CAVE (PTY) LTD, iMBALI YOUTH ENTERPRISE PARK FJ SITHOLE ROAD iMBALI, South Africa ~72: SIBISI Nhlakanipho~

2024/02448 ~ Complete ~54:ORTHOPEDIC INSTRUMENT CONNECTION MECHANISMS AND RELATED ASSEMBLIES AND SYSTEMS ~71:MICROPORT ORTHOPEDICS HOLDINGS INC., 5677 Airline Road,

Arlington, United States of America ~72: BOWMAN, Fred W.;BROOKS, Michael L.;HOLLANDSWORTH, Michael D.~ 33:US ~31:63/511,407 ~32:30/06/2023

2024/02454 ~ Complete ~54:SYSTEM AND METHOD FOR WATER ENVIRONMENT TREATMENT ~71:Guizhou Institute of prataculture, No. 1, Jinnong Road, Jinnong Community, Jinzhu Street Office, Huaxi District, Guiyang City, Guizhou Province, 550006, People's Republic of China ~72: LI, Yajiao;OU, Erling;WEI, Xin;WEI, Xingdi;ZENG, Qingfei~

2024/02456 ~ Complete ~54:COMPOSITIONS COMPRISING CYTISINE IN THE TREATMENT AND/OR PREVENTION OF ADDICTION IN SUBJECTS IN NEED THEREOF ~71:ACHIEVE LIFE SCIENCES, INC., 520 Pike Street, Suite 2250, Seattle, Washington, 98101, United States of America ~72: ANTHONY CLARKE;CINDY A JACOBS;DANIEL F CAIN~ 33:US ~31:62/899,637 ~32:12/09/2019;33:US ~31:62/988,890 ~32:12/03/2020

2024/02464 ~ Complete ~54:HIGH-POWER-DENSITY MODULAR ENERGY STORAGE CONVERTER ~71:JINGTSING TECHNOLOGY LTD, Room 1003, 10th Floor, Building 1, Yard 5, Beihuang Muchang North Street, People's Republic of China ~72: GUAN, Eryong;WANG, Dongyang~

2024/02468 ~ Complete ~54:MOUTHPIECE FOR AEROSOL DELIVERY DEVICE ~71:RAI STRATEGIC HOLDINGS, INC., 401 North Main Street, United States of America ~72: HUBBARD, Sawyer A.;SHORT, Jason M.~ 33:US ~31:17/449,686 ~32:01/10/2021

2024/02482 ~ Complete ~54:FOLDABLE ELECTRONIC DEVICE COMPRISING FLEXIBLE PRINTED CIRCUIT BOARD ~71:SAMSUNG ELECTRONICS CO., LTD., 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea ~72: CHANHEE OH;JOON HEO;SEYOON BAE;YONGYOUN KIM~ 33:KR ~31:10-2021-0127720 ~32:28/09/2021

2024/02489 ~ Complete ~54:COMPOSITIONS COMPRISING DIFFERENT DRIFT RETARDING AGENTS ~71:Bayer CropScience LP, 800 North Lindbergh Blvd., SAINT LOUIS 63167, MO, USA, United States of America ~72: SENGUPTA, Ashoke~ 33:US ~31:63/240,267 ~32:02/09/2021;33:EP ~31:21202518.3 ~32:13/10/2021;33:US ~31:63/392,371 ~32:26/07/2022

2024/02495 ~ Complete ~54:SYSTEM AND METHOD FOR MONITORING PUMP VIBRATIONS ~71:S.P.M. Instrument AB, Box 504, STRÄNGNÄS 645 25, SWEDEN, Sweden ~72: SUNDSTRÖM, Tim~ 33:SE ~31:2151246-2 ~32:09/10/2021;33:SE ~31:2251177-8 ~32:09/10/2022

2024/02509 ~ Complete ~54:BATTERY MEASURING SYSTEM ~71:Heimdalytics GmbH, Wischhofstraße 1-3, KIEL 24149, GERMANY, Germany ~72: VAN ZEYL, Clemens;WEBER, Christoph~ 33:DE ~31:10 2021 210 298.0 ~32:16/09/2021

2024/02441 ~ Provisional ~54:A SCREENING APPARATUS ~71:NEL, Francina Carolina, 24 Marx Street, Klippoortjie AH, GERMISTON 1401, Gauteng Province, SOUTH AFRICA, South Africa ~72: NEL, Francina Carolina~

2024/02453 ~ Complete ~54:CHEST PIECE STRUCTURE OF CONSTANT TEMPERATURE STETHOSCOPE CAPABLE OF BLUETOOTH TRANSMISSION ~71:The Affiliated Hospital of Southwest Medical University, No.25,Taiping Road, Jiangyang, Luzhou, Sichuan, People's Republic of China ~72: FU Yong;GAN Yang;LIAO Bin;LIAO Ruili;LIU Hui;NIE Yongmei;WAN Juyi;WANG Changyi;YU Fengxu~

2024/02461 ~ Complete ~54:CONNECTING MECHANISM, ELECTRICAL ENERGY TRANSMISSION DEVICE AND MOTOR VEHICLE ~71:CHANGCHUN JETTY AUTOMOTIVE TECHNOLOGY CO.,LTD., No. 957, Shunda

Road, High-tech Development Zone, Chaoyang District, People's Republic of China ~72: WANG, Chao~ 33:CN  
~31:202111167062.8 ~32:01/10/2021;33:CN ~31:202122400673.4 ~32:01/10/2021

2024/02471 ~ Complete ~54:CORYNEBACTERIUM GENUS MICROORGANISM PRODUCING L-ARGININE,  
AND METHOD FOR PRODUCING L-ARGININE USING SAME ~71:CJ CHEILJEDANG CORPORATION, 330,  
DONGHO-RO, JUNG-GU, SEOUL 04560, REP OF KOREA, Republic of Korea ~72: CHANG, Jin Sook;CHOI,  
Sun Hyoung;KIM, Hyo Kyung;LEE, Zeewon~ 33:KR ~31:10-2021-0137890 ~32:15/10/2021

2024/02485 ~ Complete ~54:PHOTOVOLTAIC ASSEMBLY FOR A PORTABLE SOLAR ENERGY SYSTEM  
~71:CEP-IP LTD, Wellington House, East Road, Cambridge, Cambridgeshire, CB1 1BH, United Kingdom ~72:  
THOMAS MCGREGOR JAMES GRANT~ 33:EP ~31:21196429.1 ~32:13/09/2021

2024/02486 ~ Complete ~54:A METHOD OF RECYCLING TEXTILE WASTE CELLULOSE ~71:ASIA PACIFIC  
RESOURCES INTERNATIONAL HOLDINGS LTD., Dallas Building, 7 Victoria Street, Hamilton, HM11, Bermuda  
~72: EDUWARD GINTING;H'NG YIN YING;RUDINE ANTES;SURYA DARMA PANDITA~ 33:SG  
~31:10202109553V ~32:01/09/2021

2024/02494 ~ Complete ~54:COMPOSITIONS AND METHODS FOR SKIPPING EXON 45 IN DUCHENNE  
MUSCULAR DYSTROPHY ~71:Entrada Therapeutics, Inc., One Design Center Place, Suite 17-500, BOSTON  
02210, MA, USA, United States of America ~72: ESTRELLA, Nelsa;GIRGENRATH, Mahsweta;KHEIRABADI,  
Mahboubbeh;LI, Xiang;LIAN, Wenlong;LIU, Nanjun;PATHAK, Anushree;PEDDIGARI, Suresh;QIAN,  
Ziqing;SETHURAMAN, Natarajan;ZHOU, Ming~ 33:US ~31:63/239,671 ~32:01/09/2021;33:US ~31:63/244,915  
~32:16/09/2021;33:US ~31:63/290,960 ~32:17/12/2021;33:US ~31:63/298,565 ~32:11/01/2022;33:US  
~31:63/268,577 ~32:25/02/2022;33:US ~31:63/337,574 ~32:02/05/2022;33:US ~31:63/354,454  
~32:22/06/2022

2024/02503 ~ Complete ~54:RNAI AGENTS FOR INHIBITING EXPRESSION OF MATRIX  
METALLOPROTEINASE 7(MMP7), COMPOSITIONS THEREOF, AND METHODS OF USE ~71:Arrowhead  
Pharmaceuticals, Inc., 177 East Colorado Boulevard, Suite 700, PASADENA 91105, CA, USA, United States of  
America ~72: BUSH, Erik W.;NICHOLAS, Anthony;PEI, Tao;YUAN, Tingting~ 33:US ~31:63/270,849  
~32:22/10/2021;33:US ~31:63/308,289 ~32:09/02/2022;33:US ~31:63/345,654 ~32:25/05/2022

2024/02440 ~ Provisional ~54:GELATINOUS BLAST SHOCKWAVE PROPAGATOR COMPOSITION ~71:Blast  
Assist (Pty) Ltd, 98 Armstrong Avenue, Block 2, Ground Floor, South Africa ~72: GRAHAM, Michael~

2024/02446 ~ Provisional ~54:WATER-ENERGY NEXUS BUILDING PANEL ~71:CAPE PENINSULA  
UNIVERSITY OF TECHNOLOGY (CPUT), Keizersgracht and Tennant Street Zonnebloem, Cape Town, 8000,  
South Africa ~72: ATANDA RAJI;KEAMOGETSE BRIDGET MOKOMELE;KUMAR PALLAV~

2024/02451 ~ Complete ~54:INVENTION RELATES TO ADJUSTABLE STORAGE SHELF AND CONTROL  
METHOD THEREOF ~71:CHANGZHOU INSTITUTE OF TECHNOLOGY, No. 666 Liaohe Road, Xinbei District,  
Changzhou City, Jiangsu Province, People's Republic of China ~72: YANG Hui~

2024/02455 ~ Complete ~54:METHOD FOR GROWING YAG LASER CRYSTALS BY USING LARGE-  
INTERFACE SEED CRYSTALS, AND IRIIDIUM SEED CRYSTAL ROD ~71:Guangzhou Semiconductor Material  
Research Institute, No. 161, Dongguanhuang Road, Tianhe District, Guangzhou City, Guangdong Province,  
510610, People's Republic of China ~72: GUO, Yongwen;HUANG, Guowei;HUANG, Jinjiang;JIN, Ningchang;KE,  
Guanzhen;LI, Handa;LIU, Ji'an;LIU, Jun;QUAN, Jiliang;ZHANG, Yali~ 33:CN ~31:202310332864.2  
~32:31/03/2023



2024/02459 ~ Complete ~54:COMPOUNDS FOR REGULATING TRAINED IMMUNITY, AND THEIR METHODS OF USE ~71:ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI, One Gustave L. Levy Place, United States of America; TRAINED THERAPEUTIX DISCOVERY, INC., P.O. Box 224626, United States of America ~72: GENABEEK, Bas Van; HOEBEN, Freek Johannes Maria; JANSSEN, Henricus Marie; MULDER, Willem M.J.; SONTJENS, Serge Hendrikus Mathijs ~ 33:US ~31:63/163,428 ~32:19/03/2021

2024/02463 ~ Complete ~54:POWER DEVICE AND ENERGY STORAGE CONVERTER ~71:JINGTSING TECHNOLOGY LTD, Room 1003, 10th Floor, Building 1, Yard 5, Beihuang Muchang North Street, People's Republic of China ~72: GUAN, Eryong; WANG, Dongyang ~

2024/02469 ~ Complete ~54:ORGANOSULFUR COMPOUNDS AS PLANT BIOSIMULANTS ~71:AHV INTERNATIONAL B.V., Schokkerweg 10, Netherlands; CROP HEALTH VISION B.V., Jupiter 250, Netherlands ~72: DE BOER, Lex; GRIMBERGEN, Ard Jan ~ 33:NL ~31:PCT/NL2021/050610 ~32:08/10/2021

2024/02472 ~ Complete ~54:CHILD RESISTANT ZIPPER CLOSURE, SLIDER, RECLOSABLE POUCH & METHODS ~71:REYNOLDS PRESTO PRODUCTS INC., 1900 WEST FIELD COURT, LAKE FOREST, IL 60045, USA, United States of America ~72: DERUE, Nicholas, A.; THOMPSON, Gregg; WEHRLE, Richard ~ 33:US ~31:17/463,990 ~32:01/09/2021

2024/02480 ~ Complete ~54:REMEDIATION METHOD OF CONTAMINATED GROUNDWATER FOR IN-SITU LEACHING URANIUM MINES ~71:THE FOURTH RESEARCH AND DESIGN ENGINEERING CORPORATION OF CNNC, No.261 Tiyu South Street, Shijiazhuang City, People's Republic of China ~72: HE Lining; LIAN Guoxi; MENG Tong; SU Xuebin; YANG Bing; ZHANG Haoyan ~ 33:CN ~31:202310524371.9 ~32:11/05/2023

2024/02483 ~ Complete ~54:ASSEMBLY FOR A PORTABLE SOLAR ENERGY SYSTEM ~71:CEP-IP LTD, Wellington House, East Road, Cambridge, Cambridgeshire, CB1 1BH, United Kingdom ~72: THOMAS MCGREGOR JAMES GRANT ~ 33:EP ~31:21196431.7 ~32:13/09/2021

2024/02488 ~ Complete ~54:METHOD AND SYSTEM FOR VALIDATING A DIGITAL CONTENT ~71:SICPA HOLDING SA, Avenue de Florissant 41, PRILLY 1008, SWITZERLAND, Switzerland ~72: GILLET, Philippe; THEVOZ, Philippe ~ 33:EP ~31:21194289.1 ~32:01/09/2021

2024/02491 ~ Complete ~54:METHOD FOR OPERATING A COKE OVEN PLANT ~71:Paul Wurth S.A., 32, rue d'Alsace, LUXEMBOURG 1122, LUXEMBOURG, Luxembourg ~72: CALCAGNO, Riccardo; FERRARIS, Alessio ~ 33:LU ~31:500783 ~32:25/10/2021

2024/02500 ~ Complete ~54:INTER PREDICTION CODING WITH RADIUS INTERPOLATION FOR PREDICTIVE GEOMETRY-BASED POINT CLOUD COMPRESSION ~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 ~31:63/252,093 ~32:04/10/2021; 33:US ~31:63/254,472 ~32:11/10/2021; 33:US ~31:17/933,920 ~32:21/09/2022

2024/02501 ~ Complete ~54:METHOD FOR APPLYING A PRIMER COATING TO GLASS CONTAINERS ~71:Owens-Brockway Glass Container Inc., One Michael Owens Way, PERRYSBURG 43551, OH, USA, United States of America ~72: CHISHOLM, Brian ~ 33:US ~31:17/483,919 ~32:24/09/2021

2024/02504 ~ Complete ~54:DEVICE FOR COLLECTING LIQUIDS ~71:Swiss Safe Collect SA, Espace De L'europe 3, NEUCHÂTEL 2000, SWITZERLAND, Switzerland ~72: CAILLETEAU, Benoît ~ 33:FR ~31:FR2110230 ~32:28/09/2021

2024/02506 ~ Complete ~54:MULTI-LAYERED DEXTROSE TABLETS ~71:Fertin Pharma A/S, Dandyvej 19, VEJLE 7100, DENMARK, Denmark ~72: WITTORFF, Helle~ 33:US ~31:17/502,322 ~32:15/10/2021

2024/02439 ~ Provisional ~54:PHARMACEUTICAL COMPOSITION ~71:GORAM RESEARCH AND INVESTMENTS PROPRIETARY LIMITED, 8A Avenue Disandt, Fresnaye, Sea Point, Cape Town, 8005, SOUTH AFRICA, South Africa ~72: GORDON, Brent Michael~

2024/02447 ~ Provisional ~54:MICROFLUIDIC LIQUID DISPENSING SYSTEM ~71:CSIR, Scientia, Meiring Naude Road, Brummeria, Pretoria, 0184, South Africa ~72: MANFRED RUDOLF SCRIBA;MARTIN BRIAN WILLIAMS;MASIBULELE TIMOTHY KAKAZA~

2024/02457 ~ Complete ~54:MYRISTOYL DERIVATIVES OF 9-AMINO-DOXYCYCLINE FOR TARGETING CANCER STEM CELLS AND PREVENTING METASTASIS ~71:LUNELLA BIOTECH, INC., 145 Richmond Road, Ottawa, Ontario, K1Z 1A1, Canada ~72: BÉLA OZSVARI;FEDERICA SOTGIA;JUSSI KANGASMETSA;MICHAEL P LISANTI~ 33:US ~31:63/024,216 ~32:13/05/2020

2024/02462 ~ Complete ~54:PHTHALAZINE DERIVATIVES AS PYRUVATE KINASE MODULATORS ~71:SITRYX THERAPEUTICS LIMITED, 101 Bellhouse Building, Magdalen Centre, United Kingdom ~72: BARBA, Oscar;COUSIN, David~ 33:EP ~31:21206793.8 ~32:05/11/2021;33:EP ~31:21216843.9 ~32:22/12/2021;33:EP ~31:22177827.7 ~32:08/06/2022

2024/02470 ~ Complete ~54:INITIATING SMALL DATA TRANSMISSION BASED ON ONE OR MORE CONDITIONS SPECIFIC TO DEVICE TYPE ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: KOSKINEN, Jussi-Pekka;TURTINEN, Samuli, Heikki~ 33:FI ~31:20215926 ~32:02/09/2021

2024/02484 ~ Complete ~54:FOLDABLE PHOTOVOLTAIC ASSEMBLY FOR A PORTABLE SOLAR ENERGY SYSTEM ~71:CEP-IP LTD, Wellington House, East Road, Cambridge, Cambridgeshire, CB1 1BH, United Kingdom ~72: THOMAS MCGREGOR JAMES GRANT~ 33:EP ~31:21196430.9 ~32:13/09/2021

2024/02487 ~ Complete ~54:RANDOM ACCESS PROCEDURE TECHNIQUES ~71:ZTE CORPORATION, ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan, Shenzhen, Guangdong, 518057, People's Republic of China ~72: BO GAO;KE YAO;LING YANG;XIAOLONG GUO;YANG ZHANG~

2024/02493 ~ Complete ~54:METHOD AND TOOL FOR PRODUCING A BASE PIECE OF A MULTI-PART CARTRIDGE CASE, BASE PIECE AND CARTRIDGE CASE ~71:RUAG Ammotec AG, Uttigenstrasse 67, THUN 3602, SWITZERLAND, Switzerland ~72: BIEDERMANN, Peter;GLOOR, Fabian~ 33:DE ~31:10 2021 124 431.5 ~32:21/09/2021

2024/02511 ~ Complete ~54:COMPOSITIONS AND METHODS FOR PRODUCING CIRCULAR POLYRIBONUCLEOTIDES ~71:Flagship Pioneering Innovations VI, LLC, 55 Cambridge Parkway, 8th Floor, CAMBRIDGE 02142, MA, USA, United States of America ~72: DE BOER, Alexandra Sophie;DUDKIN, Vadim;NELSON, Jennifer A.;PAEK, Ki Young~ 33:US ~31:63/245,354 ~32:17/09/2021

2024/02474 ~ Complete ~54:GLAZED PANEL DEVICE AND ASSOCIATED INSTALLATION METHOD ~71:André AKERIB, 5 allée de Diane, France ~72: AKERIB, André~ 33:FR ~31:2110120 ~32:27/09/2021

2024/02478 ~ Complete ~54:DEVICE FOR TESTING EFFICIENCY OF MICROBIAL ENHANCED COAL SEAM GAS DESORPTION THROUGH PHYSICAL SIMULATION ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, No.168, Taifeng Street, Huainan, Anhui, 232001, People's Republic of China ~72:

LIU,Bingjun;WANG,Junyu;WANG,Yuewu;XUE,Sheng;YANG,Yang;ZHANG,Xun;ZHOU,Tianyao~ 33:CN  
~31:CN202211640286.0 ~32:19/12/2022

2024/02499 ~ Complete ~54:ION PRODUCTION SYSTEM WITH FIBROUS LATTICE FOR ION COLLECTION  
~71:SHINE Technologies, LLC, 3400 Innovation Court, JANESVILLE 53546, WI, USA, United States of America  
~72: CHEREKDJIAN, Sarko;SISSON, Rich~ 33:US ~31:63/251,397 ~32:01/10/2021

2024/02510 ~ Complete ~54:SECURITY DEVICES ~71:Zeal Innovation Ltd, c/o Bevan & Buckland Langdon  
House, Langdon Road, Swansea Waterfront, SWANSEA SA1 8QY, UNITED KINGDOM, United Kingdom ~72:  
BARRON, Neil Anthony~ 33:GB ~31:2113956.3 ~32:29/09/2021

2024/02442 ~ Provisional ~54:A SYSTEM AND METHOD FOR UTILISING USER DATA TO PROVIDE USER-  
SPECIFIC PRODUCTS AND SERVICES ~71:MTN GROUP MANAGEMENT SERVICES (PROPRIETARY)  
LIMITED, 216 - 14th Avenue, Fairland, South Africa ~72: MATOVU, Anthony;MUSLIM, Muhammad  
Yaseen;OLAGESIN, Mabel~

2024/02449 ~ Complete ~54:ASSAY FOR DISTINGUISHING BETWEEN SEPSIS AND SYSTEMIC  
INFLAMMATORY RESPONSE SYNDROME ~71:THE SECRETARY OF STATE FOR HEALTH, Richmond  
House 79, Whitehall London, United Kingdom;UNIVERSITY COLLEGE CARDIFF CONSULTANTS LIMITED, 30 -  
36 Newport Road, Cardiff CF24 0DE, United Kingdom ~72: BALL, Graham;HALL, Judith;KEMPSELL,  
Karen;SHAH, Sanjoy;SZAKMANY, Tamas~ 33:GB ~31:1616557.3 ~32:29/09/2016

2024/02465 ~ Complete ~54:HYDROCHLORIDE SALT OF INUPADENANT, PHARMACEUTICAL  
COMPOSITIONS AND METHODS OF USE THEREOF ~71:ITEOS BELGIUM SA, Rue des Frères, Wright, 29,  
Belgium ~72: ARET, Edwin;DE MATAS, Marcel;DICKINSON, Paul;GANGOLLI, Esha;LAGER,  
Joanne;MADASAMY, Pratheepan;MARTINOLI, Chiara;ROSS, Sally;ROSSETTI, Maura;SCHNEIDER,  
Manfred;SRIVASTAVA, Shouraydeep;VAN BERKEL, Chantalle~ 33:US ~31:63/253,537 ~32:07/10/2021;33:US  
~31:63/309,163 ~32:11/02/2022;33:US ~31:63/341,621 ~32:13/05/2022

2024/02475 ~ Complete ~54:THREADED CONTAINER COMPONENTS HAVING FRUSTUM SHAPED  
SURFACES ENABLING NESTING ~71:POWERCAN HOLDING, LLC, 2860 West State Road 84, Suite 112, Fort  
Lauderdale, FL, 33312, United States of America ~72: ALBRIGHT, Steven, Todd;STAMMEN, Dennis;ZABALETA,  
Daniel, A.~ 33:US ~31:63/248,531 ~32:26/09/2021;33:US ~31:17/952,306 ~32:25/09/2022

2024/02479 ~ Complete ~54:PHARMACEUTICAL COMPOSITION COMPRISING ENAVOGLIFLOZIN  
~71:DAEWOONG PHARMACEUTICAL CO., LTD., 35-14, Jeyakongdan 4-gil, Hyangnam-eup, Republic of  
Korea ~72: CHO, Sangeun;HA, Songyi;HWANG, On;KIM, Gwanyoung;KIM, Gyoungwon;LEE, Heewon;LEE,  
Seoyeo;PARK, Minhyung;YOUN, Seungbin~ 33:KR ~31:10-2021-0130239 ~32:30/09/2021

2024/02496 ~ Complete ~54:CYCLIC ACETALS AND KETALS FOR THE LIGHT-INDUCED RELEASE OF  
ACTIVE ALDEHYDES AND KETONES ~71:Firmenich SA, 7, rue de la Bergère, SATIGNY 1242,  
SWITZERLAND, Switzerland ~72: HERRMANN, Andreas;WOMACK, Gary~ 33:US ~31:63/275,186  
~32:03/11/2021;33:EP ~31:21207675.6 ~32:11/11/2021

2024/02508 ~ Complete ~54:ELECTRICAL SWITCHGEAR WITH IMPROVED COOLING ~71:Eaton Intelligent  
Power Limited, 30 Pembroke Road, DUBLIN 4 D04 Y0C2, IRELAND, Ireland ~72: BANKAR,  
Akshay;GEUSENDAM, Paul;GHAG, Bhavesh;HEILERSIG, Dinant Johan;MISHRA, Shashank;PARMAR, Vinod  
Kumar~ 33:IN ~31:202111040505 ~32:07/09/2021;33:GB ~31:2115416.6 ~32:27/10/2021

2024/02444 ~ Provisional ~54:MOUNTING BRACKET ~71:VAN ROOYEN, Gert Thomas, No. 12 Mimosapark,  
Buffelfontein Road, South Africa ~72: VAN ROOYEN, Gert Thomas~

2024/02466 ~ Complete ~54:ENHANCED ELECTRO-OXIDATION SYSTEM ~71:LUMMUS TECHNOLOGY LLC, 5825 N. Sam Houston Parkway West, Suite 600 Houston, United States of America ~72: CLARK, Mark;FELCH, Chad L.;KUMFER, Bryan J.~ 33:US ~31:63/270,220 ~32:21/10/2021

2024/02476 ~ Complete ~54:ABSORBENT CONTAINING MOUTHPIECE FOR AEROSOL DELIVERY DEVICE ~71:RAI STRATEGIC HOLDINGS, INC., 401 North Main Street, United States of America ~72: HUBBARD, Sawyer A.;SHORT, Jason M.~ 33:US ~31:17/449,690 ~32:01/10/2021

2024/02497 ~ Complete ~54:ROCK BOLT ~71:Sandvik Mining and Construction Australia (Production/Supply) Pty Ltd, Level 5, 135 Coronation Drive, MILTON 4064, QUEENSLAND, AUSTRALIA, Australia ~72: DARLINGTON, Bradley;RATAJ, Mietek~ 33:EP ~31:21205283.1 ~32:28/10/2021

2024/02507 ~ Complete ~54:TRICYCLIC POLYPEPTIDE CONJUGATED DRUG AND USE THEREOF ~71:Conjustar (Zhuhai) Biologics Co., Ltd., Room 310Q, Building A, International Health Port Testing Office Building, No. 628 Airport West Road, Sanzao Town, Jinwan District, ZHUHAI CITY 519000, GUANGDONG, CHINA (P.R.C.), People's Republic of China ~72: CHEN, Shuhui;HE, Haiying;JIANG, Zhigan;LI, Huining;XIA, Jianhua~ 33:CN ~31:202111150517.5 ~32:29/09/2021;33:CN ~31:202111216628.1 ~32:19/10/2021

2024/02445 ~ Provisional ~54:ELECTRODE CASING ASSEMBLY AND METHOD OF ASSEMBLING AN ELECTRODE CASING ~71:TENOVA SOUTH AFRICA (PTY) LTD, Midrand Business Park, Building no 4 563 Old Pretoria Road Halfway House, Midrand, 1685, South Africa ~72: PIET JONKER~

2024/02450 ~ Complete ~54:METHOD FOR CULTURING PARENT PRAWNS IN HIGH-SALINITY SEAWATER ~71:Bohai Fisheries Technology (Binzhou) Co., Ltd., South Building 105, Building A5, Bohai Institute of Advanced Technology, Changjiang Fifth Road, Binzhou Economic and Technological Development Zone, Shandong Province, 256600, People's Republic of China;Bohai Seafoods Co., Ltd., Gaotian, Mashanzi Town, Beihai New District, Binzhou City, Shandong Province, 251907, People's Republic of China ~72: CHEN, Mao;SHI, Gongmin;XING, Baokai;ZHANG, Bin;ZHANG, Hengzhuang~ 33:CN ~31:202311139643.X ~32:05/09/2023

2024/02467 ~ Complete ~54:PHYTOSTEROL-BASED AGRICULTURAL COMPOSITION AND THEIR USE ~71:ELICIT PLANT, 1 Passage de la Croix, Lieudit Le Châtaignier, France ~72: BOUSSIRON, Charlene;MOLIN, Aymeric;VILLETTE, Solange~ 33:EP ~31:21306420.7 ~32:08/10/2021

2024/02477 ~ Complete ~54:ORAL LIQUID ENZALUTAMIDE COMPOSITIONS ~71:FERRING B.V., Polaris Avenue 144, Netherlands ~72: BIRADAR, Shailesh Vishwanath;PADHI, BijayKumar;SONGA, Ambedkar Sunil~ 33:IN ~31:202111044703 ~32:01/10/2021

2024/02498 ~ Complete ~54:A MIXTURE OF PYRETHROIDS AND MILBEMYCINS AND USES THEREOF ~71:Valent BioSciences LLC, 1910 Innovation Way, Suite 200, LIBERTYVILLE 60048, IL, USA, United States of America ~72: CLARK, Jason;KESAVARAJU, Banugopan~ 33:US ~31:63/254,264 ~32:11/10/2021

2024/02505 ~ Complete ~54:CIRCULAR GRIT REMOVER WITH TUBE SETTLERS ~71:Smith & Loveless Inc., 14040 Santa Fe Trail Drive, LENEXA 66215-1284, KS, USA, United States of America ~72: KELLY, John K.;MRKVICKA, Rodney S.;ZUZELSKI, Alexander P.~

2024/02452 ~ Complete ~54:EXTRUSION DEVICE FOR EXTRUDING COUPLING AGENT ~71:The Affiliated Hospital of Southwest Medical University, No.25,Taiping Road, Jiangyang, Luzhou, Sichuan, People's Republic of China ~72: FU Yong;GAO Yidan;LEI Bi;LIAO Bin;LIAO Yuanyang;LIU Hui;LIU Lang;OUYANG Yaling;WAN Juyi~

2024/02458 ~ Complete ~54:T CELL RECEPTORS AND IMMUNE THERAPY USING THE SAME AGAINST PRAME POSITIVE CANCERS ~71:Immatix Biotechnologies GmbH, Paul-Ehrlich-Straße 15, TÜBINGEN 72076,

GERMANY, Germany ~72: ALTEN, Leonie;BUNK, Sebastian;FERBER, Mathias;MAURER, Dominik;WAGNER, Claudia~ 33:DE ~31:10 2017 106 305.6 ~32:23/03/2017;33:US ~31:62/475,329 ~32:23/03/2017

2024/02460 ~ Complete ~54:DEVICE FOR DETERMINING THE COEFFICIENT OF DYNAMIC FRICTION OF FLEXIBLE PLANAR AND/OR LINEAR STRUCTURES AND A METHOD FOR DETERMINING THE COEFFICIENT OF DYNAMIC FRICTION ~71:TECHNICKA UNIVERZITA V LIBERCI, Studentska 1402/2, Czech Republic ~72: Dana KREMENAKOVA;Jiri MILITKY;Miroslav SVOBODA~ 33:EP ~31:21202368.3 ~32:13/10/2021

2024/02473 ~ Complete ~54:NUCLEIC ACIDS FOR INHIBITING EXPRESSION OF COMPLEMENT FACTOR B (CFB) IN A CELL ~71:SILENCE THERAPEUTICS GMBH, ROBERT-RÖSSLE-STRASSE 10, 13125 BERLIN, GERMANY, Germany ~72: AUMILLER, Verena;DAMES, Sibylle;JOHANNSEN, Timo;MORRISON, Eliot;RATHJEN, Stefan;SCHUBERT, Steffen~ 33:EP ~31:21194654.6 ~32:02/09/2021

2024/02481 ~ Complete ~54:CONSTRUCTION SYSTEM FOR ASSEMBLY OF A STRUCTURAL CONSTRUCTION ~71:PRODUKTIF NORWAY AS, c/o Vaager Innovasjon AS, Bygning 5 Raufoss Industripark, Norway ~72: KONGSHAUG, Rune~ 33:NO ~31:20211042 ~32:30/08/2021

2024/02490 ~ Complete ~54:METHOD FOR REDUCING CARBON FOOTPRINT IN OPERATING A METALLURGICAL PLANT FOR PRODUCING PIG IRON ~71:Paul Wurth S.A., 32, rue d'Alsace, LUXEMBOURG 1122, LUXEMBOURG, Luxembourg ~72: HANSMANN, Thomas;KRULL, Jan;PAPALIA, Katia~ 33:LU ~31:500764 ~32:19/10/2021;33:LU ~31:502634 ~32:08/08/2022

2024/02492 ~ Complete ~54:NEW INTERLEUKIN-7 IMMUNOCONJUGATES ~71:F. Hoffmann-La Roche AG, Grenzacherstrasse 124, BASEL 4070, SWITZERLAND, Switzerland ~72: CARPY GUTIERREZ CIRLOS, Alejandro;CODARRI DEAK, Laura;DURINI, Greta;FREIMOSER-GRUNDSCHÖBER, Anne;KLEIN, Christian;KOLL, Johann;LAUENER, Laura;MOESSNER, Ekkehard;NICOLINI, Valeria;SCHULENBURG, Cindy;UMAÑA, Pablo~ 33:EP ~31:21202553.0 ~32:14/10/2021

2024/02502 ~ Complete ~54:USER-FRIENDLY NEGATIVE PRESSURE WOUND THERAPY DEVICES AND METHODS OF OPERATING SUCH DEVICES ~71:T.J.Smith and Nephew, Limited, PO Box 81, 101 Hessle Road, HULL HU3 2BN, UNITED KINGDOM, United Kingdom ~72: BOSCARO, Angela;ELDER, David Michael;HOWARTH, Grant;IVAN, Pavel;KNIGHT, Reece James;MAGGIORE, Andrea;WEBB, Christopher John~ 33:GB ~31:2115353.1 ~32:26/10/2021;33:GB ~31:2117771.2 ~32:09/12/2021

- APPLIED ON 2024/04/02 -

2024/02517 ~ Provisional ~54:WATER OXYGENATION APPARATUS ~71:Watermed (Pty) Ltd, 730 Currie Road, Morningside, South Africa ~72: BELL, Gilbert John~

2024/02522 ~ Complete ~54:OPERATION BOX FOR CARDIAC SURGERY SIMULATION TRAINING ~71:The Affiliated Hospital of Southwest Medical University, No.25,Taiping Road, Jiangyang, Luzhou, Sichuan, People's Republic of China ~72: FU Yong;GAN Yang;LIAO Bin;LIAO Ruili;LIU Hui;NIE Yongmei;WAN Juyi;WANG Changyi;YU Fengxu~

2024/02526 ~ Complete ~54:SYSTEM FOR COMPREHENSIVE EVALUATION OF TUNNEL LIGHTING EFFECT ~71:Fuzhou Shun'an Traffic Technology Co., Ltd., Room 1923-14, 19th Floor, Building 17, Innovation Park Phase II, No. 7 Wulongjiang Middle Avenue, Shangjie Town, Minhou County, Fujian Province, 350108, People's Republic of China ~72: LI, Congying;YANG, Yanqun~



2024/02532 ~ Complete ~54:METHOD FOR PREPARING PROTEIN-BASED SURFACTANTS FROM LEATHER SCRAPS ~71:Jinjiang Quanjie Biotechnology Co.,Ltd, Creative Entrepreneurship Innovation Park, No.3001, South Section of Century Avenue, Luoshan Sub-district, Jinjiang city, Quanzhou Municipality, Fujian Province, People's Republic of China ~72: CAI Qingyi;DIAO Shen;DUAN Baorong;JI Zhiqiang;QIN Jing;SONG Jianguo;WANG Quanjie;WENG Yonggen~

2024/02553 ~ Complete ~54:SUBSTITUTED S-ALANINATE DERIVATIVES ~71:Bayer Aktiengesellschaft, Kaiser-Wilhelm-Allee 1, LEVERKUSEN 51373, GERMANY, Germany ~72: BECK, Hartmut;BROEHL, Andreas Peter;BUCHMÜLLER, Anja;BÄRFACKER, Lars;DIETZE-TORRES, Julia;FOLLMANN, Markus;GERDES, Christoph;GERICKE, Kersten Matthias;HEITMEIER, Stefan;HILLISCH, Alexander;KERSTEN, Elisabeth;LEHMANN, Lutz;LEVILAIN, Guillaume;MESCH, Stefanie;PARTIKEL, Katrin;PFAFF, Nils;SÜßMEIER, Frank;TERSTEEGEN, Adrian;VAKALOPOULOS, Alexandros;ZIMMERMANN, Stefanie~ 33:EP ~31:21194781.7 ~32:03/09/2021

2024/02557 ~ 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 ~31:2115188.1 ~32:22/10/2021

2024/02564 ~ Complete ~54:SYSTEM AND METHOD FOR SUPPORTING ELEVATED POWER RAILS ~71:CATERPILLAR GLOBAL MINING EQUIPMENT LLC, 875 W. Cushing Street, Tucson, Arizona, 85745, United States of America ~72: IGOR STRASHNY~ 33:US ~31:17/563,339 ~32:28/12/2021

2024/02523 ~ Complete ~54:DEVICE FOR SIMULATING CARDIOVASCULAR INTERVENTIONAL THERAPY ~71:The Affiliated Hospital of Southwest Medical University, No.25,Taiping Road, Jiangyang, Luzhou, Sichuan, People's Republic of China ~72: FU Yong;GAN Yang;LIAO Bin;LIAO Ruili;LIU Hui;NIE Yongmei;WAN Juyi;WANG Changyi;YU Fengxu~

2024/02545 ~ Complete ~54:A STRUCTURAL SPACER MEMBER, A WASHER ASSEMBLY, AND A ROCK BOLT ASSEMBLY ~71:Rocbolt Technologies (Pty) Ltd., 30 North Reef Road, Elandsfontein, GERMISTON 1429, SOUTH AFRICA, South Africa ~72: BELLINGHAM, Werner Cornelius;MULLER, Peter~

2024/02549 ~ Complete ~54:SYSTEM FOR TRANSPORTING AND STORING, IN PARTICULAR HYDROGEN AND ITS MIXTURES ~71:JURASZ, Jerzy, Rataja 10/16, 35-116, Rzeszow, Poland;JURASZ, Olga, Wisniowa 100, 38-124, Wisniowa, Poland ~72: JURASZ, Jerzy;JURASZ, Olga~ 33:PL ~31:P.439371 ~32:31/10/2021

2024/02565 ~ Complete ~54:ROLLER ASSEMBLY ~71:BELVAC PRODUCTION MACHINERY, INC., 237 Graves Mill Road, Lynchburg, Virginia, 24502-4203, United States of America ~72: HAROLD JAMES MARSHALL;JOSHUA OKRAH;MICHAEL RIGHTMYER~ 33:US ~31:63/240,304 ~32:02/09/2021

2024/02527 ~ Complete ~54:AN INTELLIGENT SYSTEM FOR ECO-BURIAL AND METHOD THEREOF ~71:Dr. George Vayalil Joseph, S/o. George Vayalil, G. C. C. House, H. No. 340, Indiranagar Double Road, Stage 1, Indiranagar, Bengaluru, Karnataka, 560038, India;Garden City University, 16th KM Old Madras Road, Garden City University, Bengaluru, Karnataka, 560049, India ~72: Dr. George Vayalil Joseph~ 33:IN ~31:202441013117 ~32:23/02/2024

2024/02574 ~ Complete ~54:RPA DETECTION PRIMER GROUP FOR DRUG RESISTANCE GENE MCR-8, KIT AND METHOD ~71:SHANDONG PROVINCE FEED VETERINARY DRUG QUALITY INSPECTION CENTER, NO. 4566, TANGYE WEST ROAD, People's Republic of China ~72: LI, Meng;LI, Youzhi;LIU, Shaoning;TANG, Wenli;WEI, Maolian;ZHANG, Anyuan~

2024/02575 ~ Complete ~54:RHIZOMA IRIDIS TECTORI ORAL LIQUID FOR TREATING NECROTIC ENTERITIS OF CHICKENS AND PREPARATION METHOD THEREOF ~71:SHANDONG PROVINCE FEED VETERINARY DRUG QUALITY INSPECTION CENTER, NO. 4566, TANGYE WEST ROAD, People's Republic of China ~72: HOU, Yunfeng;LI, Meng;LI, Youzhi;LIU, Shaoning;NIE, Jing;TANG, Wenli;WEI, Maolian;ZHANG, Anyuan~

2024/02541 ~ Complete ~54:BLOCKCHAIN-BASED SECURITY PROCESSING SYSTEM AND METHOD FOR SENSITIVE DATA ~71:SOUTHWEST UNIVERSITY, No. 2 Tiansheng Road, Beibei District, Chongqing, 400715, People's Republic of China ~72: Angela Huang;Cui Hao;Luo Zhiyong;Ma Jingwei;Min Xinren;Wang Lei;Wen Jiahui;Xie Linyang;Zhang Libo;Zhong Mingyang;Zhu Lei~

2024/02555 ~ Complete ~54:COMPOSITION ~71:Inovyn Europe Limited, PO Box 9, Bankes Lane Office, Bankes Lane, RUNCORN WA7 4JE, CHESHIRE, UNITED KINGDOM, United Kingdom ~72: HERMANT, Thomas~ 33:EP ~31:21207833.1 ~32:11/11/2021

2024/02576 ~ Complete ~54:RPA DETECTION PRIMER GROUP FOR SUPER-BACTERIAL DRUG RESISTANCE GENE NDM-1, KIT AND METHOD ~71:SHANDONG PROVINCE FEED VETERINARY DRUG QUALITY INSPECTION CENTER, NO. 4566, TANGYE WEST ROAD, People's Republic of China ~72: LI, Meng;LI, Youzhi;LIU, Shaoning;TANG, Wenli;WEI, Maolian;ZHANG, Anyuan~

2024/02529 ~ Complete ~54:INVENTION RELATES TO PREPARATION METHOD OF MODIFIED PET MESH FABRIC ~71:HUZHOU COLLEGE, No. 1, Bachelor Road, Wuxing District, Huzhou City, Zhejiang Province, People's Republic of China ~72: CAO Feng;CHEN Haifeng;HAO Lifeng;LUO Wenqin;WANG Yongya;YU Ying~

2024/02537 ~ Complete ~54:SOCKET ~71:Hangzhou XiangHe Electric Appliance Co., Ltd., 3rd Floor, Factory Building No. 1, Chengnan Industrial Functional Zone, Meicheng Town, Jiande City, Hangzhou, Zhejiang, 311604, People's Republic of China ~72: ZHENG Ruxiang~ 33:CN ~31:2024203186872 ~32:21/02/2024

2024/02543 ~ Complete ~54:A BLAST RESISTANT CAGE ~71:ITA SECURITY PRODUCTS AND SERVICES COMPANY (PTY) LTD, 245 3rd Avenue Bredell, Kempton Park, 1619, South Africa ~72: BENJAMIN LUYT~ 33:ZA ~31:2023/01757 ~32:06/02/2023

2024/02558 ~ Complete ~54:A STABLE AGROCHEMICAL COMPOSITION ~71:UPL Limited, UPL House, 610 B/2, Bandra Village, Off Western Express Highway, Bandra (East), MUMBAI 400 051, INDIA, India ~72: CAMPOS, Luiz;PAGARE, Ritesh;SAINI, Anil;SHIRSAT, Rajan Ramakant~ 33:IN ~31:202121044726 ~32:01/10/2021

2024/02536 ~ Complete ~54:PROCESSING DEVICE FOR BUILDING DATA ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467036, People's Republic of China ~72: LIU, Changsheng~

2024/02539 ~ Complete ~54:A SYSTEM AND METHOD FOR TRANSPORTING THE NON-BIODEGRADABLE PRODUCTS TO LUNAR SURFACE ~71:Techno India University, West Bengal, EM-4, Sector V, Salt lake City, Kolkata-700091, West Bengal, India ~72: Dipayan Ghosh;Dr. Subashis Biswas~ 33:IN ~31:202331032527 ~32:08/05/2023

2024/02542 ~ Complete ~54:CORONAVIRUS VACCINE ~71:BIONTECH SE, An der Goldgrube 12, 55131, Mainz, Germany ~72: ALEXANDER MUIK;ALPTEKIN GÜLER;ANDREAS KUHN;ANNETTE VOGEL;KERSTIN WALZER;SONJA WITZEL;STEPHANIE HEIN;UGUR SAHIN;ÖZLEM TÜRECI~ 33:EP ~31:PCT/EP2020/061239 ~32:22/04/2020;33:EP ~31:PCT/EP2020/066968 ~32:18/06/2020;33:EP ~31:PCT/EP2020/068174 ~32:26/06/2020;33:EP ~31:PCT/EP2020/069805 ~32:13/07/2020;33:EP

~31:PCT/EP2020/071733 ~32:31/07/2020;33:EP ~31:PCT/EP2020/071839 ~32:03/08/2020;33:EP  
 ~31:PCT/EP2020/073668 ~32:24/08/2020;33:EP ~31:PCT/EP2020/081544 ~32:09/11/2020;33:EP  
 ~31:PCT/EP2020/081981 ~32:12/11/2020;33:EP ~31:PCT/EP2020/082601 ~32:18/11/2020;33:EP  
 ~31:PCT/EP2020/082989 ~32:20/11/2020;33:EP ~31:PCT/EP2020/083435 ~32:25/11/2020;33:EP  
 ~31:PCT/EP2020/084342 ~32:02/12/2020;33:EP ~31:PCT/EP2020/085145 ~32:08/12/2020;33:EP  
 ~31:PCT/EP2020/085653 ~32:10/12/2020;33:EP ~31:PCT/EP2020/087844 ~32:23/12/2020;33:EP  
 ~31:PCT/EP2021/050027 ~32:04/01/2021;33:EP ~31:PCT/EP2021/050874 ~32:15/01/2021;33:EP  
 ~31:PCT/EP2021/050875 ~32:15/01/2021;33:EP ~31:PCT/EP2021/051772 ~32:26/01/2021;33:EP  
 ~31:PCT/EP2021/052572 ~32:03/02/2021;33:EP ~31:PCT/EP2021/052716 ~32:04/02/2021;33:EP  
 ~31:PCT/EP2021/054622 ~32:24/02/2021

2024/02566 ~ Complete ~54:ADENO-ASSOCIATED VECTORS AND VIRIONS TO TREAT GALACTOSEMIA AND METHODS OF USE AND MANUFACTURE ~71:JAGUAR GENE THERAPY, LLC, Two Conway Park 150 N. Field Drive Suite 300, Lake Forest, Illinois, 60045, United States of America ~72: MICHAEL HUGHES~ 33:US ~31:63/239,650 ~32:01/09/2021

2024/02569 ~ Provisional ~54:POULTECH TRACKABLE MEMORY STICK WITH A BUZZER, WITH BLUETOOTH THAT IS WATERPROOF & HAS AN ON & OFF SWITCH TO SAVE BATTERY ~71:POULETHER LAETECIA NEO BUCIBA, 4696 MODIKO STREET, South Africa ~72: POULETHER LAETECIA NEO BUCIBA ~

2024/02516 ~ Provisional ~54:REINFORCED WHEEL RIM ~71:NERO, Richard Leif, 3 Zeezicht, Zandberg Estate, 50 Pyracantha Street, South Africa ~72: NERO, Richard Leif~

2024/02544 ~ Complete ~54:TELESCOPIC ARM FOR SELF-PROPELLED OPERATING MACHINES ~71:MANITOU ITALIA S.R.L., Via Cristoforo Colombo 2, Castelfranco Emilia (Modena), 41013, Italy ~72: MARCO IOTTI~ 33:IT ~31:102023000006594 ~32:04/04/2023

2024/02546 ~ Complete ~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~ 33:ZA ~31:2021/06536 ~32:07/09/2021

2024/02518 ~ Provisional ~54:A METHOD OF PREPARING A MULTIPixel IMAGE FOR QUILTING AND A PREPARED IMAGE ~71:SWANEPOEL, Ansulet, 34 Sipres Avenue, BAINSVLEI, Bloemfontein 9301, Free State, SOUTH AFRICA, South Africa ~72: SWANEPOEL, Ansulet~

2024/02520 ~ Complete ~54:A DEVICE AND METHOD FOR HEATING WATER AND COOKING ~71:VREDEHOEK PLUMBING (PTY) LTD, 22 Pomanu Cress, Kyalami Estate, South Africa ~72: VAN NIEKERK, Nico~

2024/02512 ~ Provisional ~54:PROCESS FOR SULFOALKYLATION OF K-HUMATES AND THE ADDITION OF A POLY CARBOXYLIC ACID ORGANIC COMPOUND ~71:OMNIA GROUP (PROPRIETARY) LIMITED, Building H, Monte Circle Office Park, South Africa ~72: HUYSER, Johannes Jacobus;KLEINHANS, George;MAREE, Darren;STANDER, Barend Frederik~

2024/02514 ~ Provisional ~54:4G SMART DRONE BUILT-IN ELECTRONIC SIM CARD FOR LARGER DISTANCES AND BUILT-IN CAMERAS AND LOUDSPEAKER AND MICROPHONE AND MAPPING AFTER IT IS CONNECTED TO THE SMART MOBILE PHONE APP ~71:AHMED WASEEF SAIB, 24 Park Ave, Desainager, South Africa ~72: AHMED WASEEF SAIB~

2024/02524 ~ Complete ~54:CEMENT GROUTING DEVICE ~71:Jiangsu Vocational Institute of Architectural Technology, 26 Xueyuan Road, Tongshan District, Xuzhou City, Jiangsu Province, 221116, People's Republic of China ~72: GUO, Yu;MA, Qinghua;WANG, Wei;WANG, Yao;YU, Mingxu~

2024/02535 ~ Complete ~54:EQUIPMENT FOR SEPARATING CAPS FROM THEIR CONDITIONING TRAY ~71:A. RAYMOND ET CIE, 113 COURS BERRIAT, 38000 GRENOBLE, FRANCE, France ~72: REY, Gaëtan~ 33:FR ~31:FR2303537 ~32:07/04/2023

2024/02552 ~ Complete ~54:TRANSMEMBRANE PEPTIDIC ANTAGONISTS OF PLEXIN-A1 AND THEIR THERAPEUTIC USES ~71:INSTITUT NATIONAL DE LA SANTÉ ET DE LA RECHERCHE MÉDICALE (INSERM), 101 rue de Tolbiac, France;UNIVERSITE DE STRASBOURG, 4 rue Blaise Pascal, France ~72: BAGNARD, Dominique;BINAME, Fabien~ 33:EP ~31:21306229.2 ~32:08/09/2021

2024/02563 ~ Complete ~54:AN ASSOCIATION SOLUTION FOR A WIRELESS COMMUNICATION NETWORK ~71:WIREPAS OY, Visiokatu 4, Tampere, 33720, Finland ~72: VILLE JUVEN~ 33:FI ~31:20215935 ~32:03/09/2021

2024/02533 ~ Complete ~54:PREPARATION AND APPLICATION OF SELF-MONITORING CEMENTITIOUS COMPOSITES FOR BRIDGES ~71:Jilin Jianzhu University, No. 5088, Xincheng Street, Changchun City, Jilin Province, People's Republic of China ~72: AI Yongming;HUANG Qing;LIU Zhuangzhuang;MA Lijun;QIAN Xuesong;WANG Jing;ZHANG Yunlong;ZHANG Yunlong~

2024/02631 ~ Provisional ~54:LIFESTYLE MONITORING AND FOLLOW THE MONEY SYSTEM ~71:Makhubedu Presley Mthobisi, Stand No. 661, Mgcobaneni Trust, South Africa ~72: Makhubedu Presley Mthobisi~

2024/02551 ~ Complete ~54:METHOD, APPARATUS, DEVICE, SYSTEM AND STORAGE MEDIUM FOR COLLECTING SPATIOTEMPORAL BEHAVIORS AND GENERATING A SPATIOTEMPORAL BEHAVIOR TRACK ~71:KINGFAR INTERNATIONAL INC., 4th Floor, Building 16, Guanghua Venture Park, 18 Anningzhuang East Road, Haidian District, People's Republic of China ~72: YANG, Ran;ZHAO, Qichao~ 33:CN ~31:202111172921.2 ~32:08/10/2021

2024/02562 ~ Complete ~54:SYSTEM AND METHOD FOR CHARGING AN ELECTRIC VEHICLE ~71:CATERPILLAR INC., 100 NE Adams Street - AH9510, United States of America ~72: BARNICKEL, William E.;BREWER, Michael A.;CONVERSE, Perry D.;OTHTMAN, Jeffery;VITALE, Andrew J.~ 33:US ~31:17/492,895 ~32:04/10/2021

2024/02521 ~ Complete ~54:ELASTIC FIXING METHOD OF HIGH-PRESSURE GASEOUS TYPE IV BOTTLE NECK ~71:Sinoma Science & Technology(chengdu)Co.,Ltd, No.136 Pingtang East Road, Puxing Street (New Material Industry Functional Zone), Xinjin District, Chengdu, Sichuan, People's Republic of China ~72: GUO Yongzhi;HU Lei;LI Ming;LIU Bo;QI Na~

2024/02554 ~ Complete ~54:FUNGICIDAL COMPOSITIONS COMPRISING FLUDIOXONIL ~71:Syngenta Crop Protection AG, Rosentalstrasse 67, BASEL 4058, SWITZERLAND, Switzerland ~72: LAN, Lan;LU, Liang;ZHANG, Lianhong~ 33:IB ~31:2021/127248 ~32:29/10/2021

2024/02556 ~ Complete ~54:CANCER THERAPY TARGETING NKG2A ~71:Les Laboratoires Servier, 35 rue de Verdun, SURESNES CEDEX 92284, FRANCE, France ~72: ANDERSEN, Daniel;LAUGEL, Bruno;MELANDER, Eva Maria Carlsen;NANCY-PORTEBOIS, Vanessa;OCANA FERNANDEZ, Alberto;PIERRAT, Marie-Jeanne;UHLENBROCK, Franziska Katharina~ 33:EP ~31:21306386.0 ~32:04/10/2021

2024/02519 ~ Complete ~54:INTELLIGENT CHESTNUT PESTICIDE DELIVERY DEVICE AND PESTICIDE DELIVERY METHOD THEREOF ~71:Shandong Institute of Pomology, No.66 Longtan Road, Tai'an City, Shandong Province, People's Republic of China ~72: SHEN Guangning;SUN Xiaoli;TIAN Shoule;WANG Hairong;WANG Jinping~

2024/02513 ~ Provisional ~54:I PAY-U ~71:Ahmed Khan, No2 Ncondo Place, South Africa ~72: Ahmed Khan~

2024/02534 ~ Complete ~54:POSITION-LIMITING ADJUSTABLE PREFABRICATED BLASTING TUBE AND INSTALLATION METHOD THEREOF ~71:SHAOXING UNIVERSITY, No.508 Huancheng West Road, Shaoxing City, Zhejiang Province, 312000, People's Republic of China;Shaoxing future community development and construction co., ltd, Room 627, Floor 6, No.135 Fenglin West Road, Shaoxing City, Zhejiang Province, 312000, People's Republic of China ~72: CAI Mingcheng;DING Jiahao;FU Jiahao;HUANG Wenhai;JI Bingyao;JIANG Ruiwen;KANG Huijun;LU Chenhao;MENG Huabin;QIAN Gang;SHOU Feifeng;WANG Jian;WANG Tianzuo;XUE Fei;ZHAO Dandan;ZHU Chengfeng~

2024/02515 ~ Provisional ~54:HOPPER COUPLING ~71:VAN ZYL, Cornis, 8 Dawn Ave, Flamwood, South Africa ~72: VAN ZYL, Cornis~

2024/02525 ~ Complete ~54:ACCESSORY DEVICE FOR EMERGENCY PARKING STRIP ON HIGHWAY OR IN TUNNEL ~71:Fuzhou Shun'an Traffic Technology Co., Ltd., Room 1923-14, 19th Floor, Building 17, Innovation Park Phase II, No. 7 Wulongjiang Middle Avenue, Shangjie Town, Minhou County, Fujian Province, 350108, People's Republic of China ~72: LI, Congying;YANG, Yanqun~

2024/02550 ~ Complete ~54:MOLD AND STRETCH-BLOW-MOLDED POLYESTER BOTTLE ~71:ALPLA WERKE ALWIN LEHNER GMBH & CO. KG, Allmendstrasse 81, Austria ~72: Adem DEMIR;Andreas REHDE~ 33:CH ~31:070266/2021 ~32:14/09/2021

2024/02559 ~ Complete ~54:CLOSURE ~71:Huawei Technologies Co., Ltd., Huawei Administration Building, Bantian, Longgang District, SHENZHEN 518129, GUANGDONG, CHINA (P.R.C.), People's Republic of China ~72: CHENG, Jian;HE, Boyong;MA, Zhigang~ 33:CN ~31:202111178189.X ~32:09/10/2021

2024/02561 ~ Complete ~54:A PHARMACEUTICAL FORMULATION OF IMMUNE CHECK POINT INHIBITORS ~71:DR REDDY'S LABORATORIES LTD., 8-2-337, Road No. 3, Banjara Hills, India ~72: AGGARWAL, Lovisha;INGALE, Mahesh;JACOB, Reinhard;JAYARAMAN, Murali;K GOUD, Saisharan;LABALA, Suman;NANATH, Maya;NANKAR, Sunil Ashok;PRIYA, R., L. Shri Ranga;SARKAR, Puja;SURESH, Abirami~ 33:IN ~31:202141040074 ~32:03/09/2021

2024/02568 ~ Provisional ~54:THE ECOLOGICAL SUBSTITUTE FOR SINGLE-USE-PLASTIC STICKS ~71:ANGELIQUE GREYLING, 1282 Lawson Avenue, Waverley, South Africa ~72: ANGELIQUE GREYLING~

2024/02528 ~ Complete ~54:CULTURE METHOD FOR IMPROVING VARIOUS GINSENOSIDE CONTENT OF ADVENTITIOUS ROOT OF PANAX GINSENG C.A.MEYER ~71:Yanbian University, No. 977 Gongyuan Road, Yanji City, Jilin Province, 133002, People's Republic of China ~72: KONG, Linghui;LI, Xiangguo;PANG, Donglin;XU, Yapeng;XU, Yimeng~

2024/02530 ~ Complete ~54:DOUBLE-LAYER CYLINDER-TYPE TOWED HARVESTER FOR CYPERUS ESCULENTUS L. ~71:Shihezi University, Shihezi University, No. 221 Beisi Road, Xiangyang Street, Shihezi City, Xinjiang Uygur Autonomous Region, 832003, People's Republic of China ~72: CHEN, Wenhui;GAO, Jianping;HUANG, Lidong;MENG, Hewei;PENG, Huijie;QI, Jiangtao;YANG, Luoyi~ 33:CN ~31:2023231839436 ~32:24/11/2023



2024/02531 ~ Complete ~54:SIZE-ADJUSTABLE ELECTRIC CLAMPING AUXILIARY WELDING TOOL FOR RECTANGULAR FRAME ~71:CHANGZHOU INSTITUTE OF TECHNOLOGY, No. 666 Liaohe Road, Xinbei District, Changzhou City, Jiangsu Province, People's Republic of China ~72: YANG Hui~

2024/02538 ~ Complete ~54:EXTRACTION DEVICE FOR PREPARING QUERCETIN ~71:Inner Mongolia Medical University, Chiechuan dairy economic development zone, Hohhot, Inner Mongolia Autonomous Region, 010110, People's Republic of China ~72: Feng GAO;Jun LI;Mengdi ZHANG;Qian ZHANG;Tuya BAI;Xiaoli LV;Yue WU;Yuxia HU~ 33:CN ~31:2024101486650 ~32:02/02/2024

2024/02540 ~ Complete ~54:LOCKING MECHANISM OF SLUICE BOARD ~71:Hohai University, No. 1, Xikang Road, Gulou District, Nanjing City, Jiangsu Province, 210000, People's Republic of China ~72: Cui Chaoyang;Gu Pengcheng;Hu Rongjing;Ji Yongjie;Lian Qiuyan;Luan Qinghua;Ma Yanfang;Sun Lei;Zhang Weifang~

2024/02547 ~ Complete ~54:PLANT-BASED RECOMBINANT PROTEIN EXPRESSION SYSTEM ~71:COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH, Meiring Naudé Road Brummeria, South Africa;UNIVERSITY OF PRETORIA, Lynnwood Road Hatfield, South Africa ~72: CHIKWAMBA, Rachel Kerina;KUNERT, Karl Josef;PILLAY, Priyen;SINGH, Advaita Acarya;TSEKOA, Tsepo Lebiletsa;VORSTER, Juan Barend~ 33:ZA ~31:2021/06641 ~32:09/09/2021

2024/02548 ~ Complete ~54:APPARATUS FOR PROGRESSIVELY DRYING TEA WITH CIRCULATING AIR FROM HEAT PUMP ~71:Huangshan Xinanyuan Organic Tea Development Co., LTD, Wanning Industrial Park, Xiuning County, Huangshan City, Anhui Province, 245400, People's Republic of China;Huangshan Xinanyuan Trading Co, LTD, Wanning Industrial Park, Xiuning County, Huangshan City, Anhui Province, 245400, People's Republic of China ~72: Fang, Guofan;Fang, Guoqiang;Fang, Jianwu;Fang, Suxia;Huang, Yisheng;Wang, Qiangsong;Yang, Jun~ 33:CN ~31:2023107090243 ~32:15/06/2023

2024/02560 ~ Complete ~54:A METHOD OF IMPROVING STABILITY OF IMMUNE CHECK POINT INHIBITORS ~71:DR REDDY'S LABORATORIES LTD., 8-2-337, Road No. 3, Banjara Hills, India ~72: AGGARWAL, Lovisha;DESAI, Mayur Vijay;INGALE, Mahesh;JAYARAMAN, Murali;K GOUD, Saisharan;KALIGATLA, Sireesha Goswamy;KIRAVE, Prathibha Chandrashekhar;LABALA, Suman;MARIKANTY, Ravi Kumar;NANATH, Maya;NANKAR, Sunil Ashok;PENMETSA, Ravi Kiranmai;SARKAR, Puja;SHINDE, Chetan Govindrao;SIGIREDDI, Indra Kumar;SIVALANKA, Giridhar;SURESH, Abirami~ 33:IN ~31:202141040075 ~32:03/09/2021;33:IN ~31:202241019550 ~32:31/03/2022

2024/02567 ~ Complete ~54:HDV READY ELECTROCHEMICAL ELECTRODES WITH NOVEL COMPOSITION, STRUCTURE AND METHOD OF MANUFACTURE ~71:BLUE-O TECHNOLOGY INC, Unit 37 - 1529 West 71st Avenue, Canada ~72: GIRGIS, Emad Azmy Sultan;RUAN, Hai Xiong~ 33:US ~31:63/240,673 ~32:03/09/2021

- APPLIED ON 2024/04/03 -

2024/02578 ~ Complete ~54:ANTI-OSTEOPOROSIS AND ANTI-OSTEOARTHRITIS TRADITIONAL CHINESE MEDICION COMPOSITION ~71:Chongqing Chemical Industry Vocational College, No. 2009, Puti East Road, Changshou District, Chongqing, 401220, People's Republic of China;Chongqing Yaoxiaoge Pharmaceutical Technology Co., Ltd., No. 16-6, Daxue City East Road, Xianglushan Street, High-tech Zone, Chongqing, 401331, People's Republic of China;Xiangyang Central Hospital, Affiliated Hospital of Hubei University of Arts and Science, No. 39, Jingzhou Street, Gucheng Street, Xiangcheng District, Xiangyang City, Hubei Province, 441021, People's Republic of China ~72: Guiju CHEN;Rexidan BAIKERI;Ronghao ZHANG;Xi ZHA;Yihao ZHOU;Yuanzhong WANG~

2024/02586 ~ Complete ~54:ADJUSTABLE SAFETY CLOTHES HANGER WITH COLLAR COMPRESSING FUNCTION ~71:CHANGZHOU INSTITUTE OF TECHNOLOGY, No. 666 Liaohe Road, Xinbei District, Changzhou City, Jiangsu Province, People's Republic of China ~72: TIAN Wentong~

2024/02591 ~ Complete ~54:A TONIC AND HEALTH-CARE MEDICINAL LIQUOR AND A PREPARATION METHOD THEREOF ~71:Shanweidao (Shenzhen) Health Technology Co., Ltd., Room 206, 2nd Floor, Building B, Jihong R&D Building, No. 1 Binglang Road, Fubao Community, Fubao Street, Futian District, Shenzhen, Guangdong, People's Republic of China ~72: Junquan Zhang;Lingsheng Xu;Mingyue Zhao;Xiaomei Huang;Zhengying Cui~ 33:CN ~31:2023112421513 ~32:25/09/2023

2024/02593 ~ Complete ~54:ERROR COMPENSATION METHOD FOR HVPG MEASUREMENT OF PORTAL HYPERTENSION PRESSURE GRADIENT ~71:Huaxi Jingchuang Medical Technology (Chengdu) Co., Ltd., 8th Floor, Block B, Building 3, No. 200 Tianfu Fifth Street, Chengdu High-tech Zone, China (Sichuan) Pilot Free Trade Zone, Chengdu City, Sichuan Province, 610095, People's Republic of China ~72: LEI, Jianguo;ZHANG, Tailue~ 33:CN ~31:202310811959.2 ~32:04/07/2023

2024/02595 ~ Complete ~54:BLOWN SAND ENVIRONMENT SIMULATION TEST BENCH AND APPLICATION THEREOF ~71:Xinjiang Institute of Ecology and Geography , Chinese Academy of Sciences, No. 818 Beijing South Road, Urumqi, Xinjiang Uygur Autonomous Region, 830011, People's Republic of China ~72: Fan Jinglong;Li Shengyu;Wang Haifeng;Yu Xiangxiang~ 33:CN ~31:202410279077.0 ~32:12/03/2024

2024/02570 ~ Provisional ~54:INTEGRATED BIOMECHANICAL PROSTHETIC ARM WITH EMBEDDED MACHINE LEARNING AND MULTIFUNCTIONAL USER INTERFACE ~71:4TH AI HOLDINGS (PTY) LTD, 240 HARRY GWALA ROAD WIGGINS, South Africa ~72: BUCU Mlungiseleli Birthwell~

2024/02573 ~ Provisional ~54:APPARATUS FOR DELIVERING AN ADDITIVE TO AN IRRIGATION SYSTEM ~71:NEL, Theunis Jacobus, Kromellebroog Farm, District Utrecht, South Africa ~72: NEL, Theunis Jacobus~

2024/02605 ~ Complete ~54:MULTISPECIFIC BINDING AGENTS AGAINST PD-L1 AND CD137 IN COMBINATION WITH ANTI PD-1 ANTIBODIES FOR TREATING CANCERS ~71:BIONTECH SE, An der Goldgrube 12, Germany;GENMAB A/S, Carl Jacobsens Vej 30, Denmark;MSD INTERNATIONAL BUSINESS GMBH, Tribschenstrasse 60, Switzerland ~72: JURE-KUNKEL, Maria N.;MUIK, Alexander;NÜRMBERGER, Kristina;PENCHEVA, Nora;SAHIN, Ugur~ 33:US ~31:63/253,106 ~32:06/10/2021;33:US ~31:63/257,901 ~32:20/10/2021

2024/02582 ~ Complete ~54:SHIP ANTI-ROLLING DEVICE AND SHIP ~71:Binzhou Polytechnic, No. 919 Huanghe 12th Road, Bincheng District, Binzhou City, Shandong Province, 256603, People's Republic of China ~72: BI Yanliang;WANG Zhen;YU Mengmeng;ZHAI Wei;ZHAO Zhiqiang~

2024/02592 ~ Complete ~54:SIMULATION DRIVING CALIBRATION SYSTEM FOR UNMANNED SHIP ~71:ZHEJIANG INTERNATIONAL MARITIME COLLEGE, No. 268, Haitian Avenue, Lincheng New District, Zhoushan City, People's Republic of China ~72: LIU, Zailiang;WANG, Jiazheng;ZHANG, Bo~ 33:CN ~31:202311823435.1 ~32:27/12/2023

2024/02581 ~ Complete ~54:DENTAL IMPLANTATION DEVICE FOR ORAL SURGERY ~71:Hainan Medical University, No. 3 Xueyuan Road, Longhua District, Haikou City, Hainan Province, People's Republic of China ~72: Haiyan CHEN;Jie ZHOU;Meiyan ZHOU;Qing YUAN;Siyu TAO;Song YANG;Xuejing LIN;Yulei DONG;Zhongyu SHI;Zhuling GUO~ 33:CN ~31:2023103864550 ~32:11/04/2023

2024/02584 ~ Complete ~54:BATHING DEVICE FOR BEDRIDDEN PATIENTS ~71:CHANGZHOU INSTITUTE OF TECHNOLOGY, No. 666 Liaohe Road, Xinbei District, Changzhou City, Jiangsu Province, People's Republic of China ~72: YANG Hui~

2024/02589 ~ Complete ~54:NOVEL SHIP CHARGING EQUIPMENT ~71:Binzhou Polytechnic, No. 919 Huanghe 12th Road, Bincheng District, Binzhou City, Shandong Province, 256603, People's Republic of China ~72: BI Yanliang;LU Baocheng;MA Lili;ZHAI Wei;ZHANG Lei;ZHAO Zhiqiang;ZONG Yonggang~

2024/02594 ~ Complete ~54:A PREPARATION PROCESS FOR IRON SACCHARATE OF IRON SUPPLEMENTS ~71:GUANGXI NORMAL UNIVERSITY FOR NATIONALITIES, 23 Fozhi Road, Chongzuo City, People's Republic of China ~72: LI, Zhibao;LU, Zhenlan;TANG, Silong;XU, Zujin;ZHOU, Funeng~

2024/02602 ~ Complete ~54:PROTOPORPHYRINOGEN OXIDASE INHIBITORS ~71:ENKO CHEM, INC., 62 Maritime Drive, Mystic, Connecticut, 06355, United States of America ~72: DAVID JEFFREY LAUFFER;NEVILLE JOHN ANTHONY;PAUL GALATSIS;PETER STCHUR III~ 33:US ~31:63/244,586 ~32:15/09/2021;33:US ~31:63/299,855 ~32:14/01/2022;33:US ~31:63/400,365 ~32:23/08/2022

2024/02587 ~ Complete ~54:DIAMOND COMPACT AND PREPARATION METHOD AND APPLICATION THEREOF ~71:ANHUI UNIVERSITY OF SCIENCE & TECHNOLOGY, No.168 Taifeng Street, Tianjia'an District, Huainan City, Anhui Province, 232001, People's Republic of China ~72: HAN Lei~

2024/02606 ~ Provisional ~54:WIRELESS COOLANT LEVEL MONITORING SYSTEM ~71:Eben Louw, 23 Everglades rd, Eversdal, South Africa ~72: Eben Louw~

2024/02596 ~ Complete ~54:SYSTEM AND METHOD FOR MANAGEMENT OF INFORMATION ON LABORATORY TESTS IN NEONATAL SCREENING ~71:Carmen Gloria Berríos Durán, Gabriel González Videla #59, Paine, Santiago, 9540000, Chile;Claudio Alberto Ruff Escobar, General Gana #1702, Santiago, 8370854, Chile;Eliana Pizarro Ibarra, Sevilla #1774 B, Independencia, Santiago, 8380409, Chile;Felipe Gonzalo Rosales Lillo, José Miguel, Carrera #359, Santiago, 8370152, Chile;Hospital San Juan de Dios, Huérfanos #3255, Santiago, 8350488, Chile;José Tomás Doña Vial, Plaza Yolanda, #74, Las Condes, Santiago, 7561112, Chile;Midori Valeria Sawada Tsukame, Martin Alonso Pinzón #5180, Las Condes, Santiago, 7580329, Chile;Pedro Pablo Gabriel Lobo Sotomayor, Vitacura #10108, Apartment #131, Vitacura, Santiago, 7630000, Chile;Ricardo Francisco Garcés Lagos, Rupanco #400 La Florida, Santiago, 8260220, Chile;Susana del Carmen Valdebenito Alcaíno, Hernán Cortés #2400, Apartment B-73, Ñuñoa, Santiago, 7750000, Chile;Universidad Bernardo O'Higgins, Vie1 Av. #1497, Santiago, 8370993, Chile;Viviana Elizabeth Ortega Balbi, La Siembra Av. #4217, C-31. Lampa, Santiago, 9380000, Chile;Ximena Andrea Espinoza Raglianti, El Canelo #1076, Villa Aires de Nos, San Bernardo, Santiago, 8082392, Chile ~72: Carmen Gloria Berríos Durán;Claudio Alberto Ruff Escobar;Eliana Pizarro Ibarra;Felipe Gonzalo Rosales Lillo;José Tomás Doña Vial;Midori Valeria Sawada Tsukame;Pedro Pablo Gabriel Lobo Sotomayor;Ricardo Francisco Garcés Lagos;Susana del Carmen Valdebenito Alcaíno;Viviana Elizabeth Ortega Balbi;Ximena Andrea Espinoza Raglianti~

2024/02599 ~ Complete ~54:NOVEL ACETOHYDROXY ACID SYNTHASE VARIANT, AND METHOD FOR PRODUCING L-ISOLEUCINE USING SAME ~71:CJ CHEILJEDANG CORPORATION, 330, DONGHO-RO, JUNG-GU, SEOUL 04560, REP OF KOREA, Republic of Korea ~72: CHEONG, Ki Yong;CHOI, Woosung;KIM, Heeyeong;KIM, Kyungrim~ 33:KR ~31:10-2021-0128911 ~32:29/09/2021

2024/02572 ~ Provisional ~54:DETONATION OF EXPLOSIVES ~71:AECI MINING LIMITED, AECI Place, 23/24 The Woodlands, Woodlands Drive, Woodmead,, SANDTON 2191, SOUTH AFRICA, South Africa ~72: BOROS, Arvanesh;YAKAN A NWAI, Christian~

2024/02577 ~ Complete ~54:MONITORING SYSTEM FOR INTEGRATED EXCAVATION AND ANCHORING MACHINE BASED ON DIGITAL TWIN TECHNOLOGY ~71:Taiyuan University of Technology, No.79 West Street Yingze, Taiyuan City, Shanxi Province, 030024, People's Republic of China ~72: CHEN, Long;GENG, Yide;GUAN, Shengyu;LIU, Feng;WANG, Hongli;WANG, Hongwei~

2024/02583 ~ Complete ~54:MINE TERRAIN SURVEYING METHOD AND SYSTEM BASED ON MULTI-SOURCE DATA ~71:ANHUI UNIVERSITY OF SCIENCE & TECHNOLOGY, No.168 Taifeng Street, Tianjia'an District, Huainan City, Anhui Province, 232001, People's Republic of China ~72: XIE Shicheng;YU Xuexiang~

2024/02604 ~ Complete ~54:STORAGE OCCUPANCY SPRINKLER SYSTEM ~71:VICTAULIC COMPANY, 4901 Kesslersville Road, Easton, Pennsylvania, 18040-6714, United States of America ~72: JOHN DESROSIER;KEVIN DESMOND MAUGHAN;STEPHEN J MEYER~ 33:US ~31:63/244,307 ~32:15/09/2021;33:US ~31:63/244,514 ~32:15/09/2021

2024/02590 ~ Complete ~54:FORMULATIONS OF POLYALKYLENE OXIDE-ASPARAGINASE AND METHODS OF MAKING AND USING THE SAME ~71:SERVIER IP UK LIMITED, Sefton House Sefton Park, Bells Hill, Stoke Poges, United Kingdom ~72: FORNASINI, Gianfranco;PHILLIPS, Christopher;SOUKHAREVA, Nadejda~

2024/02603 ~ Complete ~54:METHOD FOR ACQUIRING MULTISPECTRAL IMAGES AND PANCHROMATIC THUMBNAILED IMAGES ~71:SAFRAN REOSC, Avenue de la Tour Maury, 91280, Saint-Pierre-du-Perray, France ~72: JEAN-LOUIS CAREL~ 33:FR ~31:FR2110050 ~32:23/09/2021

2024/02571 ~ Provisional ~54:TRANSFORMER OR REACTOR WITH CORNER LOSS REDUCTION COIL(S). ~71:Jacobus Johannes van der Merwe, 1060 Pierneef Street, Villieria, South Africa ~72: Jacobus Johannes van der Merwe~

2024/02579 ~ Complete ~54:A COMPOUND FENGSHINING GEL PATCH AND ITS PREPARATION METHOD ~71:Shanxi University of Chinese Medicine, 121 Daxue Street, University Park, Jinzhong, Shanxi, 030606, People's Republic of China ~72: Liyan Lu;Tao Peng;Xiuhong Wei;Yanmiao Ma;Yingli Wang;yonghui Wang~ 33:CN ~31:CN202310830367.5 ~32:06/07/2023

2024/02588 ~ Complete ~54:AIR PURIFICATION DEVICE FOR PIGSTY ~71:ANCHEE(SHANDONG) ACADEMY OF ANIMAL NUTRITION Co.LTD, Room 02, Building 5, Block 5, Yinfeng Biological City, No.1177 Chunlan Road, High-tech Zone, Jinan City, Shandong Province, People's Republic of China;Institute of Animal Science and Veterinary Medicine, Shandong Academy of Agricultural Sciences, No.23788 Industrial North Road, Licheng District, Jinan City, Shandong Province, People's Republic of China ~72: DU Yushi;GUO Jianfeng;LIN Haichao;LIU Xiaohui;WANG Huaizhong;ZHAO Xueyan~

2024/02601 ~ Complete ~54:MASKRCNN WATER SEEPAGE DETECTION METHOD AND SYSTEM BASED ON WEAK LIGHT COMPENSATION ~71:CSG POWER GENERATION (GUANGDONG) ENERGY STORAGE TECHNOLOGY CO., LTD, Room 208, No.100 Dongxing Road, Donghuan Street, Panyu District Guangzhou, People's Republic of China;CSGES OPERATION MANAGEMENT BRANCH COMPANY, Room 410, No. 858, West Lotus Avenue, Donghuan Street, Panyu District, Guangzhou, People's Republic of China ~72: CAI, Xichang;FENG, Wenyu;HUANG, Zuliang;LIN, Jiesheng;LIU, Xin;OUYANG, Jifan;WANG, Jin;WENG, Zheng;XU, Xiaomeng;ZHAO, Shaohua;ZHOU, Wanjun;ZHOU, Yuquan~ 33:CN ~31:202210464625.8 ~32:29/04/2022

2024/02598 ~ Complete ~54:THERAPEUTIC ENGINEERED MICROBIAL CELL SYSTEMS AND METHODS FOR TREATING CONDITIONS IN WHICH OXALATE IS DETRIMENTAL ~71:UNLOCKED LABS INC., 1938 HARNEY ST., STE 247, LARAMIE, WY 82072, UNITED STATES OF AMERICA, United States of America ~72: GEISLER, Christoph~ 33:US ~31:63/261,034 ~32:09/09/2021

2024/02600 ~ Complete ~54:METHOD AND SYSTEM FOR PROVIDING A SITE SPECIFIC FERTILIZER RECOMMENDATION ~71:YARA INTERNATIONAL ASA, Drammensveien 131 0277, Norway ~72: JASPER, Jörg;REUSCH, Stefan~ 33:EP ~31:21201463.3 ~32:07/10/2021

2024/02580 ~ Complete ~54:AN INTELECTIN, ITS ENCODING GENES, AND APPLICATIONS DERIVED FROM ANDRIAS DAVIDIANUS ~71:Northwest A&F University, No. 22, Xinong Road, Yangling District, Xianyang City, Shaanxi Province, People's Republic of China ~72: Chen Yongqing;Liu Kexin;Mo Haolin;Wang Lixin;Yu Huixia;Yu Jiajia~ 33:CN ~31:2024102696622 ~32:11/03/2024

2024/02585 ~ Complete ~54:MOUNTAIN GEOLOGICAL DISASTER MONITORING SYSTEM BASED ON REMOTE SENSING IMAGES ~71:ANHUI UNIVERSITY OF SCIENCE & TECHNOLOGY, No.168 Taifeng Street, Tianjia'an District, Huainan City, Anhui Province, 232001, People's Republic of China ~72: HAN Yuchen;YU Xuexiang~

2024/02597 ~ Complete ~54:METHOD AND APPARATUS FOR TRAFFIC PROBING ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83 STOCKHOLM, SWEDEN, Sweden ~72: JAISWAL, Abhishek;LU, Yunjie;WANG, Wu;WU, Yiming;ZHAN, Deqin;ÖRTENBLAD, Helen~ 33:CN ~31:PCT/CN2021/117483 ~32:09/09/2021

- APPLIED ON 2024/04/04 -

2024/02610 ~ Complete ~54:POWER PACK ~71:MARCUS, Dean Shane, 65 Serenade Road, Elandsfontein, South Africa ~72: MARCUS, Dean Shane~ 33:ZA ~31:2023/00227 ~32:05/01/2023

2024/02612 ~ Complete ~54:METHOD OF MICROPROPAGATING ASPALATHUS LINEARIS ~71:STELLENBOSCH UNIVERSITY, Admin B, Victoria Street, Stellenbosch, South Africa ~72: BROOKES, Jolene;MAKUNGA, Nokwanda Pearl;WILKINSON, Catherine~

2024/02615 ~ Complete ~54:TREM COMPOSITIONS AND METHODS OF USE ~71:FLAGSHIP PIONEERING INNOVATIONS VI, LLC, 55 Cambridge Parkway, 8th Floor Suite 800E, United States of America ~72: ANASTASSIADIS, Theonie;ARCADIA, Christopher, E.;BUTLER, David, Charles Donnell;EICHHORN, Stephen, William;KIESMAN, William, F.;KUBICA, Neil;LI, Qingyi;NARYSHKIN, Nikolai;NGOUNOU WETIE, Armand, Gatien;YU, Hongchuan~ 33:US ~31:63/255,420 ~32:13/10/2021;33:US ~31:63/255,426 ~32:13/10/2021;33:US ~31:63/284,934 ~32:01/12/2021;33:US ~31:63/284,946 ~32:01/12/2021

2024/02627 ~ Complete ~54:BIOACTIVE MOLECULES FOR USE IN TREATING INSULIN RESISTANCE AND/OR RESTORING GLUCOSE HOMEOSTASIS ~71:PALTECH, 5 avenue du Général Tripier, 75007, Paris, France ~72: CHARLES-HENRI MALBERT;MAURICE REGINALD ALLOUCHE~ 33:FR ~31:PCT/FR2021/051573 ~32:14/09/2021

2024/02630 ~ Complete ~54:SYSTEMS, METHODS, AND DEVICES FOR REMOVING CONTAMINANTS FROM STORMWATER ~71:STORMTRAP, LLC, 1287 Windham Parkway, Romeoville, Illinois, 60446, United States of America ~72: DAN FAJMAN;GREGORY WILLIAMS;LUKE MATTESON;ROBERT J MORAN~ 33:US ~31:17/477,274 ~32:16/09/2021

2024/02619 ~ Complete ~54:BINDING AGENTS TARGETING TROP2-EXPRESSING TUMOR CELLS ~71:KisoJi Biotechnology Inc., 3576 avenue du Parc, Suite 4310, MONTRÉAL H2X 3P9, QUÉBEC, CANADA, Canada ~72: DA CRUZ, Luis;HOU, Wenyang;YAO, Shugang;YOUNG, David S.~ 33:US ~31:63/249,728 ~32:29/09/2021;33:US ~31:63/326,572 ~32:01/04/2022



2024/02622 ~ Complete ~54:METHOD AND APPARATUS FOR POINT CLOUD COMPRESSION USING HYBRID DEEP ENTROPY CODING ~71:InterDigital VC Holdings, Inc., 200 Bellevue Parkway, Suite 300, WILMINGTON 19809, DE, USA, United States of America ~72: LODHI, Muhammad Asad;PANG, Jiahao;TIAN, Dong~ 33:US ~31:63/252,482 ~32:05/10/2021

2024/02617 ~ Complete ~54:THREE CLUSTER GALACTOSE TYPE COMPOUND, CONJUGATE, MAKING METHOD AND USE THEREOF ~71:GUANGZHOU RIBOBIO CO., LTD., No.7 Suida Street, Huangpu District, People's Republic of China ~72: WU, Naixing;ZHANG, Bill Biliang;ZHAO, Haoting~ 33:CN ~31:202310897323.4 ~32:20/07/2023

2024/02621 ~ Complete ~54:GENE EDITING OF PCSK9 OR ANGPTL3 AND COMPOSITIONS AND METHODS OF USING SAME FOR TREATMENT OF DISEASE ~71:Verve Therapeutics, Inc., 201 Brookline Avenue, Suite 601, BOSTON 02215, MA, USA, United States of America ~72: BELLINGER, Andrew M.;CHADWICK, Alexandra;CHENG, Christopher;DE ALMEIDA PINTO GARCIA, Sara Cristina;DENIZIO, Jamie;IYER, Sowmya;JAYARAM, Hariharan;LEE, Richard Glenn;RAJEEV, Kallanthottathil G.;REISS, Caroline;ROHDE, Ellen;WANG, Kui~ 33:US ~31:63/247,236 ~32:22/09/2021;33:US ~31:63/255,333 ~32:13/10/2021;33:US ~31:63/389,679 ~32:15/07/2022

2024/02608 ~ Provisional ~54:PRODUCTION OF TITANIUM METAL POWDER ~71:VAN VUUREN, David, Steyn, 274 ALBERT STREET, WATERKLOOF, 0181, PRETORIA, SOUTH AFRICA, South Africa ~72: VAN VUUREN, David, Steyn~

2024/02614 ~ Complete ~54:VIRAL PARTICLES RETARGETED TO SKELETAL MUSCLE ~71:REGENERON PHARMACEUTICALS, INC., Corporation New York, 777 Old Saw Mill River Road, United States of America ~72: KYRATSOUS, Christos;MOLLER-TANK, Sven;MURPHY, Andrew, J.;SABIN, Leah;SAMAI, Poulami;STEC, Michael~ 33:US ~31:63/275,731 ~32:04/11/2021;33:US ~31:63/369,761 ~32:28/07/2022

2024/02611 ~ Complete ~54:LAYERED CODING FOR COMPRESSED SOUND OR SOUND FIELD REPRESENTATIONS ~71:DOLBY INTERNATIONAL AB, Apollo Building, 3E Herikerbergweg 1-35, 1101 CN, Amsterdam Zuidooost, Netherlands ~72: ALEXANDER KRUEGER;SVEN KORDON~ 33:EP ~31:15306589.1 ~32:08/10/2015;33:EP ~31:15306653.5 ~32:15/10/2015;33:US ~31:62/361,416 ~32:12/07/2016;33:US ~31:62/361,461 ~32:12/07/2016

2024/02629 ~ Complete ~54:AN ONCOLYTIC VIRUS VECTOR CODING FOR INTERLEUKIN-7 (IL-7) POLYPEPTIDE ~71:TILT BIOTHERAPEUTICS OY, c/o Biomedicum 2B Tukholmankatu 8 B 00290 Helsinki, Finland ~72: AKSELI HEMMINKI;DAFNE QUIXABEIRA;JAMES CLUBB;RIIKKA HAVUNEN;TATIANA KUDLING~ 33:FI ~31:20216026 ~32:04/10/2021

2024/02609 ~ Complete ~54:METHOD FOR IMPROVING POLLUTANT REMOVAL RATE AND/OR CONTROLLING MEMBRANE FOULING IN AQUACULTURE WASTEWATER ~71:SHANGHAI ACADEMY OF AGRICULTURAL SCIENCES, No. 1000, Jinqi Road, Fengxian District, Shanghai, People's Republic of China ~72: HUANG, Weiwei;LIU, Yaqin;LV, Weiwei;YANG, Hang;YUAN, Quan;ZHOU, Wenzong~

2024/02618 ~ Complete ~54:ARTICLE WITH COMBUSTION RETARDING PROPERTIES AND USES THEREOF ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: ABI AOUN, Walid;HERNANDEZ SANCHEZ, Jose;HODGSON, Matthew~ 33:GB ~31:2115008.1 ~32:20/10/2021

2024/02626 ~ Complete ~54:MULTISPECIFIC BINDING MOIETIES COMPRISING PD-1 AND TGF- $\beta$ RII BINDING DOMAINS ~71:INCYTE CORPORATION, 1801 Augustine Cut-Off, Wilmington, Delaware, 19803, United States of America;MERUS N.V., Uppsalalaan 17, 3rd & 4th Floor, 3584 CT Utrecht, Netherlands ~72:

CECILIA ANNA WILHELMINA GEUIJEN;LIANG-CHUAN WANG;PATRICK MAYES;SHAUN M STEWART~  
33:NL ~31:2029844 ~32:19/11/2021

2024/02616 ~ Complete ~54:METHOD AND SYSTEM FOR PROVIDING A SITE SPECIFIC FERTILIZER  
RECOMMENDATION ~71:YARA INTERNATIONAL ASA, Drammensveien 131 0277, Norway ~72: Stefan  
REUSCH~ 33:EP ~31:21201468.2 ~32:07/10/2021

2024/02613 ~ Complete ~54:USE OF ANTI-CD6 MONOCLONAL ANTIBODIES IN THE PREVENTION OF  
CELLULAR AND ORGAN DAMAGE RESULTING FROM HYPER- INFLAMMATORY RESPONSE ~71:CENTRO  
DE INMUNOLOGIA MOLECULAR, Calle 216 esq. 15, Atabey, Playa, Cuba ~72: ABDO CUZA, Anselmo  
Antonio;CORREA PADILLA, Jorge Miguel;GARCÍA VEGA, Yanelda de los Angeles;LEÓN MONZÓN,  
Kalet;SUÁREZ LÓPEZ, Juliette Maria;ÁLVAREZ BENITO, Octavio~ 33:CU ~31:2021-0074 ~32:08/09/2021

2024/02620 ~ Complete ~54:PROTEINS COMPRISING THE EXTRACELLULAR DOMAIN OF P75NTR  
~71:PetMedix Ltd, The Glenn Berge Building, Building 940, Babraham Research Campus, Babraham,  
CAMBRIDGE CB22 3FH , CAMBRIDGESHIRE, UNITED KINGDOM, United Kingdom ~72: BARDELLI, Marco;LI,  
Meng Amy~ 33:GB ~31:2115098.2 ~32:21/10/2021;33:US ~31:17/506,876 ~32:21/10/2021

2024/02607 ~ Provisional ~54:INTEGRATED UNDERGROUND MINING SYSTEM WITH OSCILLATING  
POLYCRYSTALLINE DIAMOND CUTTERS AND ADAPTIVE OPERATIONAL CAPABILITIES ~71:BOOI  
INDUSTRIES (PTY) LTD, 1236 XHOSA STREET TSAKANE BRAKPAN, South Africa ~72: BOOI, Delisile  
Mackdonald;MASHININI, Wandile Solomon~

2024/02624 ~ Complete ~54:METHODOLOGY AND APPARATUS FOR MAKING CARBON NANOMATERIALS AND  
METHODS USING LITHIUM-FREE ELECTROLYTES ~71:C2CNT LLC, 625 W. Venice Ave, United States of  
America ~72: LICHT, Gad;LICHT, Stuart~ 33:US ~31:63/250,662 ~32:30/09/2021

2024/02623 ~ Complete ~54:BOREHOLE DEPTH LOGGING ~71:REFLEX INSTRUMENTS ASIA PACIFIC PTY  
LTD, 216 Balcatta Road, Western Australia, Australia;UNIVERSAL FIELD ROBOTS PTY LTD, Unit 2, 112 Fison  
Avenue West Eagle Farm, Australia ~72: CASSELL, Timothy Joseph;JACKSON, John;KOPLAN, Christopher  
Thomas~ 33:AU ~31:2021903305 ~32:14/10/2021;33:AU ~31:2022900867 ~32:04/04/2022

2024/02628 ~ Complete ~54:A ROOT BUSHING, A BUSHING INSERT THEREOF, A WIND TURBINE BLADE  
COMPRISING SAID ROOT BUSHING AND A MANUFACTURING METHOD THEREOF ~71:ENVISION  
ENERGY CO., LTD, No.3 Shengzhuang Road, New Energy Industrial Park of JiangYin Harbor Economic  
Development District, Wuxi, Jiangsu, 214443, People's Republic of China ~72: GIROLOMINI GIANCARLO;GLUD  
JENS;OVERGAARD LARS~ 33:DK ~31:PA 2021 70490 ~32:05/10/2021

2024/02625 ~ Complete ~54:ELECTRONIC DEVICE COMPRISING HEAT DISSIPATION STRUCTURE  
~71:SAMSUNG ELECTRONICS CO., LTD., 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677,  
Republic of Korea ~72: MOONHYUNG KWON;TAEKKYUN CHOI;TAEWOOK HAM;WONHYUNG  
HEO;YOUNGGIRL YUN~ 33:KR ~31:10-2021-0128315 ~32:28/09/2021

- APPLIED ON 2024/04/05 -

2024/02665 ~ Provisional ~54:GRINDER CUTTING ACCURACY GUARD ~71:SAKHILE HOPEWELL NTULI,  
9042 SIYANQONBA, South Africa ~72: SAKHILE HOPEWELL NTULI ~

2024/02651 ~ Complete ~54:ANALYTICAL METHODS OF ASSESSING CYTISINE PURITY ~71:ACHIEVE LIFE  
SCIENCES, INC., 22722 29th Dr. SE, Suite 100, Bothell, Washington, 98021, United States of America ~72:

CURTIS SWIFT;KATIE WILLIAMS;MARCO DELGADO;NIGEL RICHARDSON~ 33:US ~31:63/241,829  
~32:08/09/2021

2024/02657 ~ Complete ~54:PRESS MOLDING METHOD OF A CUP SHAPED FIBER PRODUCT, A FIBER  
PRESS MOULD AND A CUP SHAPED FIBER PRODUCT ~71:Blue Ocean Closures AB, Innovation Park  
Sommargatan 101A, KARLSTAD 656 37, SWEDEN, Sweden ~72: SANDBERG, Lars~ 33:SE ~31:2151225-6  
~32:06/10/2021

2024/02634 ~ Provisional ~54:MOLECULAR MODELLING METHOD FOR A FUNCTIONAL MATERIAL  
~71:CSIR, Scientia, Meiring Naude Road, Brummeria, Pretoria, 0184, South Africa ~72: KATLEGO JAFTA  
RAMALATSWA;RAPELA REGINA MAPHANGA~

2024/02641 ~ Complete ~54:PANIC TRANSCEIVER SYSTEM FOR A SAFE ~71:Custech (Pty) Ltd, Verdi St.  
594, Constantia Park, South Africa ~72: DE WITT, Sarel Jacobs~

2024/02649 ~ Complete ~54:AGRICULTURAL COMPOSITIONS AND METHODS FOR MAKING AND USING  
THE SAME ~71:KOCH AGRONOMIC SERVICES, LLC, 4111 East 37th Street North, Wichita, Kansas, 67220,  
United States of America ~72: AHMED A IMAN;DREW R BOBECK;STACEY LEIGH WERTZ~ 33:US  
~31:63/251,697 ~32:04/10/2021

2024/02655 ~ Complete ~54:PROCESS FOR AN INSTANT NON-FRIED NOODLE ~71:Société des Produits  
Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: GARG, Prateeksha;GULIA,  
Neelam;UPADHYAY, Rohit~ 33:IN ~31:202111041602 ~32:15/09/2021;33:EP ~31:21206346.5  
~32:04/11/2021

2024/02663 ~ Complete ~54:TEMPERATURE PROGRAMMABLE SMALL MOLECULES FOR  
THERMORESPONSIVE SMART WINDOWS AND APPLICATIONS THEREOF ~71:COUNCIL OF SCIENTIFIC  
AND INDUSTRIAL RESEARCH, Anusandhan Bhawan, India ~72: AYYAPPANPILLAI, Ajayaghosh;PATRA,  
Dipak;POOPANAL, Sreejith Shankar~ 33:IN ~31:202113045339 ~32:04/10/2021

2024/02648 ~ Complete ~54:NOVEL GREEN LITHIUM IRON PHOSPHATE PRECURSOR, PREPARATION  
METHOD THEREFOR AND APPLICATION THEREOF ~71:SHANGHAI LIANGFU NEW ENERGY  
TECHNOLOGY CO., LTD., Rm. 33018, Bldg. 5, No. 269 Yushu Rd., Yongfeng Str., Songjiang District Shanghai,  
201699, People's Republic of China ~72: XIAOLIN YU~ 33:CN ~31:202111064354.9 ~32:10/09/2021

2024/02654 ~ Complete ~54:METHODS AND KITS FOR DIAGNOSING MUSCLE ATROPHY ~71:CENTRE  
HOSPITALIER UNIVERSITAIRE DE CLERMONT-FERRAND, 58 Rue Montalembert BP69 63003, Clermont-  
Ferrand, France;INSTITUT NATIONAL DE RECHERCHE POUR L'AGRICULTURE, L'ALIMENTATION ET  
L'ENVIRONNEMENT, 147 rue de l'Université, 75007, Paris, France;UNIVERSITE CLERMONT AUVERGNE, 49  
Bld François Mitterrand CS60032 63001, Clermont-Ferrand, France ~72: ANNE ELISABETH HENG;DANIEL  
TAILLANDIER;JULIEN ANIORT~ 33:EP ~31:21306403.3 ~32:06/10/2021

2024/02658 ~ Complete ~54:ACTIVATION OF LATE RESPONSE GENES USING NEUROMODULATION  
~71:GE Precision Healthcare LLC, 9900 W. Innovation Drive, WAUWATOSA 53226, WI, USA, United States of  
America ~72: COTERO, Victoria Eugenia;PULEO, Christopher Michael~ 33:US ~31:63/255,339 ~32:13/10/2021

2024/02632 ~ Provisional ~54:A SYSTEM AND METHOD FOR AUTOMATED ELECTROCARDIOGRAM (ECG)  
INTERPRETATION USING ARTIFICIAL INTELLIGENCE ~71:RUSHERN RUVASHIN CHETTY, 3 Cotswold  
Drive, South Africa ~72: RUSHERN RUVASHIN CHETTY~

2024/02633 ~ Provisional ~54:A COT ~71:KIT COT (PTY) LTD., 7 Villiers Road, Walmer, PORT ELIZABETH 6070, Eastern Cape, SOUTH AFRICA, South Africa ~72: MACKENZIE, Alison Ann;MACKENZIE, Andrew Ronald~

2024/02638 ~ Complete ~54:VEHICLE TO VEHICLE COLLISION AVOIDANCE SYSTEM AND METHOD ~71:MATRIX DESIGN GROUP, LLC, 5741 Prospect Drive, P. O. Box 1446, United States of America ~72: LEMOND, Ben;POLK, Jeff;PORTER, Robert;WILSON, Kenton~ 33:US ~31:18/309,520 ~32:28/04/2023

2024/02642 ~ Complete ~54:PICTURE FRAME ~71:FERGUSON, Roger Keith, 31 Jonkershoek Road, THE HILL, Johannesburg 2197, Gauteng, SOUTH AFRICA, South Africa ~72: FERGUSON, Roger Keith~

2024/02644 ~ Complete ~54:CAN END ~71:TOP CAP HOLDING GMBH, Untere Sparchen 50, Austria ~72: PIECH, Gregor, Anton~ 33:DE ~31:102022129193.6 ~32:04/11/2022

2024/02647 ~ Complete ~54:TREATMENT WITH ILEAL BILE ACID TRANSPORTER (IBAT) INHIBITORS FOR INCREASED EVENT-FREE SURVIVAL (EFS) ~71:MIRUM PHARMACEUTICALS, INC., 950 Tower Lane, Suite 1050, United States of America ~72: GARNER, Will;VIG, Pamela~ 33:US ~31:63/276,480 ~32:05/11/2021;33:US ~31:63/315,762 ~32:02/03/2022

2024/02653 ~ Complete ~54:METHOD FOR PRODUCING HIGH-STRENGTH TINPLATE AND TINPLATE PRODUCED THEREWITH ~71:TATA STEEL IJMUIDEN B.V., Wenckebachstraat 1, 1951 JZ Velsen-Noord, Netherlands ~72: JOHN ANTONY GAMBLE~ 33:EP ~31:21202573.8 ~32:14/10/2021;33:EP ~31:21204747.6 ~32:26/10/2021

2024/02660 ~ Complete ~54:CHARGING GUIDANCE SIGNAL ACQUISITION CIRCUIT, NEW ENERGY VEHICLE-MOUNTED CHARGING SOCKET, AND CHARGING PILE ~71:CHANGCHUN JETTY AUTOMOTIVE TECHNOLOGY CO., LTD., No. 957, Shunda Road, High-tech Development Zone, Chaoyang District, People's Republic of China ~72: WANG, Chao~ 33:CN ~31:202111144495.1 ~32:28/09/2021

2024/02664 ~ Complete ~54:AMMONIA-BASED PHOTOCATALYTIC REACTOR SYSTEMS AND METHODS ~71:SYZGY PLASMONICS INC., 9000 Kirby Drive, United States of America ~72: CHAPMAN, Jonathan Morris;GARDEZI, Syed Ali;GLOSE, Morgan;KHATIWADA, Suman;ROBATJAZI, Hossein;SHAH, Shreya~ 33:US ~31:63/271,337 ~32:25/10/2021

2024/02639 ~ Complete ~54:SUSTAINABLE DIGESTIVE AID ~71:MPT-NNA JOINT VENTURE, 10 Surrey Manor, 101 Dennis Road, ATHOLL, Johannesburg 2196, Gauteng Province, SOUTH AFRICA, South Africa ~72: MHLANLANYEKOSI, Ndebele Godfrey~ 33:ZA ~31:2023/05230 ~32:12/05/2023

2024/02662 ~ Complete ~54:PLATE-SHAPED NUCLEAR FUEL ELEMENT AND METHOD OF MANUFACTURING THE SAME ~71:FRAMATOME, 1 place Jean Millier, Tour Areva, France ~72: GRASSE, Michel;STEPNIK, Bertrand~ 33:EP ~31:21306462.9 ~32:19/10/2021

2024/02656 ~ Complete ~54:COMPOSITIONS FOR ACUTE AND CHRONIC WOUNDS ~71:DEBx Medical Holding B.V., Barbara Strozziilaan 362, HN AMSTERDAM 1083, THE NETHERLANDS, Netherlands ~72: BIGNOZZI, Carlo Alberto;COGO, Alberto;QUINT, Bertus Jozef~ 33:IT ~31:102021000025541 ~32:07/10/2021

2024/02635 ~ Provisional ~54:CHEMISTRY PROCESS FOR THE PRODUCTION OF CANNABINOID COMPOUNDS ~71:COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH, MEIRING NAUDE ROAD BRUMMERIA, South Africa ~72: STEENKAMP, Lucia Hendrina;VAN DER WESTHUYZEN, Christiaan Wynand~

2024/02637 ~ Provisional ~54:PUMPOVER SIPHON SEWER ~71:Jan-Wynand Naude, Plot 139 Bloemspruit, Bloemfontein, Bloemfontein, Free State, 9301, South Africa ~72: Jan-Wynand Naude~

2024/02643 ~ Complete ~54:INHIBITORS OF HUMAN IMMUNODEFICIENCY VIRUS REPLICATION ~71:ViiV HEALTHCARE UK (No.5) LIMITED, GSK Medicines Research Centre, Gunnels Wood Road, United Kingdom ~72: DALWADI, Gautam~ 33:US ~31:63/255,056 ~32:13/10/2021;33:US ~31:63/257,212 ~32:19/10/2021

2024/02661 ~ Complete ~54:BIOMASS GASIFICATION AND WASTE INCINERATION INTEGRATED FURNACE ~71:HUADIAN ELECTRIC POWER RESEARCH INSTITUTE CO., LTD., No. 10, Xiyuan 1st Road, Sandun Town, People's Republic of China ~72: XUE, Zhipeng~ 33:CN ~31:202310992910.1 ~32:08/08/2023

2024/02645 ~ Complete ~54:COMPOSITION AND METHOD FOR USE OF 1-ALKYL-5-OXOPYRROLIDINE-3-CARBOXYLIC ACIDS AS COLLECTORS FOR PHOSPHATE AND LITHIUM FLOTATION ~71:CLARIANT INTERNATIONAL LTD, Rothausstrasse 61, Switzerland ~72: BICALHO, Leandro Seixas;DA SILVA, Wagner Claudio;GROSSMANN, Adriana;LEINWEBER, Dirk~ 33:US ~31:17/470,795 ~32:09/09/2021;33:EP ~31:21199322.5 ~32:28/09/2021

2024/02652 ~ Complete ~54:EGFR INHIBITOR POLYMORPH FORMS ~71:AXEL RAINER MAIER, Rheinfelden/Baden, Baden-Württemberg, D-79618, Germany;ERASCA, INC., 3115 Merryfield Row Suite 300 San Diego, California 92121, United States of America;FRITZ BLATTER, Reinach, CH-4153, Switzerland;NICOLINO TUFILLI, Moehlin, CH-4313, Switzerland ~72: AXEL RAINER MAIER;FRITZ BLATTER;JEAN-MICHEL VERNIER;NICOLINO TUFILLI~ 33:US ~31:63/247,774 ~32:23/09/2021

2024/02636 ~ Provisional ~54:INVENTION OF A HIGH-SECURITY ARMoured BATTERY CABINET FOR TELECOMMUNICATIONS INFRASTRUCTURE ~71:A.MILLARD, 12 Honeyguide cr, South Africa ~72: A.MILLARD~

2024/02640 ~ Complete ~54:INDUCTIVE USER INTERFACE SYSTEM FOR ROTATIONAL MOVEMENT ~71:AZOTEQ HOLDINGS LIMITED, c/o Spyrou Kyprianou Avenue 20, Chapo Central, Cyprus ~72: BRUWER, Frederick Johannes;RADEMEYER, Daniel Barend~ 33:ZA ~31:2023/04975 ~32:05/05/2023

2024/02650 ~ Complete ~54:MUSCLE TARGETING COMPLEXES FOR TREATING DYSTROPHINOPATHIES ~71:DYNE THERAPEUTICS, INC., 1560 Trapelo Road Waltham, Massachusetts, 02451, United States of America ~72: BENJAMIN VIEIRA;BRENDAN QUINN;CODY A DESJARDINS;JOHN NAJIM;MOHAMMED T QATANANI;PEIYI SHEN;ROMESH R SUBRAMANIAN;TIMOTHY WEEDEN~ 33:US ~31:63/274,306 ~32:01/11/2021

2024/02659 ~ Complete ~54:SYNTHESIS OF MAVORIXAFOR AND INTERMEDIATES THEREOF ~71:X4 Pharmaceuticals, Inc., 61 North Beacon Street, 4th Floor, BOSTON 02134, MA, USA, United States of America ~72: BRANDS, Karel Marie Joseph;HANSELMANN, Roger~ 33:US ~31:63/262,225 ~32:07/10/2021

2024/02646 ~ Complete ~54:SEED TREATMENT COMPOSITIONS THAT INCREASE MICROORGANISM LONGEVITY ~71:PRO FARM GROUP, INC., 1540 Drew Avenue, Davis, California, 95618, United States of America ~72: PATHAK, Pankaj;PIERONI, Sergio;VASAR, Virge;VIRTA, Kalle~ 33:US ~31:63/244,877 ~32:16/09/2021

- APPLIED ON 2024/04/08 -

2024/02697 ~ Complete ~54:TARGETED CATALYTIC COMPLEMENT-ACTIVATING MOLECULES AND METHODS OF USE THEREOF ~71:Omeros Corporation, 201 Elliott Avenue West, SEATTLE 98119, WA, USA, United States of America ~72: ALI, Mohammed Youssif Ibrahim;DEMOPULOS, Gregory A.;DOULAMI, Christiana;SCHWAEBLE, Hans-Wilhelm;YABUKI, Munehisa~ 33:US ~31:63/253,211 ~32:07/10/2021



2024/02776 ~ Complete ~54:CD73 COMPOUNDS ~71:GILEAD SCIENCES, INC., 333 Lakeside Drive, Foster City, United States of America ~72: BARTLETT, MARK J.;CHIN, GREGORY F.;CLARKE, MICHAEL O.;COSMAN ELLIS, JENNIFER L.;ENSAN, DEEBA;GOYAL, BINDU;HO, STEPHEN;MACKMAN, RICHARD L.;MISH, MICHAEL R.;SIEGEL, DUSTIN S.;TAMSHEN, KYLE C.;YANG, HAI~ 33:US ~31:63/273,454 ~32:29/10/2021

2024/02667 ~ Provisional ~54:MONO-DIRECTIONAL PACKAGING ~71:MPACT LIMITED, 4th Floor, 3 Melrose Boulevard, Melrose Arch, Johannesburg, Gauteng, 2196, South Africa ~72: STEFAN HOFMEYR BOSHOF~

2024/02683 ~ Complete ~54:AN EMERGENCY NOTIFICATION DEVICE ~71:ROESTOFF, Maryne, 15 SEEKAT STREET, GLENTANA, WESTERN CAPE, 6525, SOUTH AFRICA, South Africa ~72: DU PLESSIS, Barend, Jacobus;LOUW, Andre;ROESTOFF, Maryne~

2024/02689 ~ Complete ~54:METHOD FOR PURIFYING POLYSACCHARIDE OF PORUS MEDICINALIS BY SEQUENTIAL SIMULATED MOBILE CHROMATOGRAPHY ~71:HEILONGJIANG BAYI AGRICULTURAL UNIVERSITY, No.5 Xinfeng Road, Gaoxin District, Daqing City, Heilongjiang Province, 163711, People's Republic of China;HEILONGJIANG BAYI AGRICULTURAL UNIVERSITY MUDANJIANG INSTITUTE OF FOOD AND BIOTECHNOLOGY, Building 16, Incubation Center of Sino-Russian Science and Technology Information Industry Park, Jiangnan New City, Mudanjiang City, Heilongjiang Province, 157000, People's Republic of China ~72: BAO Rongpeng;CAO Rongan;HE Tianfeng;LI Chaoyang;LI Liangyu;LIN Xinmei;LU Baoxin;WANG Yuankai~ 33:CN ~31:2022116964389 ~32:28/12/2022

2024/02700 ~ Complete ~54:CHARGING SEAT FOR HIGH-PRECISION TERMINAL CENTERING AND MOTOR VEHICLE ~71:CHANGCHUN JETTY AUTOMOTIVE TECHNOLOGY CO., LTD., No. 957, Shunda Road, High-tech Development Zone, Chaoyang District Changchun, Jilin 130000, People's Republic of China ~72: CHAO WANG~ 33:CN ~31:202111083188.7 ~32:15/09/2021;33:CN ~31:202122236573.2 ~32:15/09/2021

2024/02702 ~ Complete ~54:DIOXAZINES AND THEIR USE IN TREATMENT OF GBA-RELATED DISEASES ~71:ZEVRA DENMARK A/S, Ole Maaløes Vej 3, 2200, Copenhagen, Denmark ~72: KENNETH THIRSTRUP;SØREN NEVE;WILLIAM DALBY BROWN~ 33:EP ~31:21199449.6 ~32:28/09/2021

2024/02668 ~ Complete ~54:MOVABLE SOIL EROSION DYNAMIC SIMULATION DEVICE ~71:Fujian Polytechnic of Water Conservancy and Electric Power, No.2199 Baxi Avenue, Yong'an City, Fujian Province, People's Republic of China ~72: HAO Yanfang;TONG Fan;ZHAO Xiaofang~ 33:CN ~31:2024100191712 ~32:05/01/2024

2024/02671 ~ Complete ~54:LIFTABLE DEVICE FOR MEASURING SOIL EROSION UNDER FORESTS AND ON SLOPES ~71:Fujian Polytechnic of Water Conservancy and Electric Power, No.2199 Baxi Avenue, Yong'an City, Fujian Province, People's Republic of China ~72: HAO Yanfang;TONG Fan;ZHAO Xiaofang~ 33:CN ~31:2024101565050 ~32:04/02/2024

2024/02675 ~ Complete ~54:LEATHER WASTE RECYCLING PROCESSOR ~71:Binzhou Medical University, No. 346, Guanhai Road, Laishan District, Yantai City, Shandong Province, People's Republic of China;Yantai University, No. 30, Qingquan Road, Laishan District, Yantai City, Shandong Province, People's Republic of China ~72: DUAN Baorong;LENG Guorui;LIU Junjie;QU Jiale;WANG Shanshan;WENG Yonggen~

2024/02682 ~ Complete ~54:SHIP HYBRID POWER DEVICE ~71:Binzhou Polytechnic, No. 919 Huanghe 12th Road, Bincheng District, Binzhou City, Shandong Province, 256603, People's Republic of China ~72: BI Yanliang;CUI Xuan;LU Baocheng;SUN Qingyun;WANG Bin;WANG Zhen;ZHAI Wei;ZHAO Zhiqiang~

2024/02685 ~ Complete ~54:RENEWABLE ENERGY SYSTEM MOUNTING APPARATUS AND BUOYANT PLATFORM ~71:MARINE POWER SYSTEMS LIMITED, Ethos Building, Kings Road, United Kingdom ~72: FOSTER, Graham~ 33:GB ~31:2116002.3 ~32:08/11/2021

2024/02688 ~ Complete ~54:COAL PERMEATION-WETTING EXPERIMENT SYSTEM BASED ON SOLUTION IN-SITU PRESSURE INJECTION ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, 168 Taifeng Street, Huainan, Anhui, 232001, People's Republic of China ~72: HAN, Feilin;JIANG, Bingyou;LI, He;LI, Yaobin;REN, Bo;XUE, Sheng;ZHAO, Yang;ZHENG, Chunshan;ZHENG, Xiaoliang;ZHENG, Yuannan~ 33:CN ~31:202310758563.6 ~32:26/06/2023

2024/02692 ~ Complete ~54:COMPOUNDS AND METHODS FOR REDUCING PSD3 EXPRESSION ~71:IONIS PHARMACEUTICALS, INC., 2855 Gazelle Court, Carlsbad, United States of America ~72: BUI, Huynh-Hoa;FREIER, Susan M.;LEE, Richard~ 33:US ~31:63/274,405 ~32:01/11/2021

2024/02693 ~ Complete ~54:FULL-AUTOMATIC INTEGRATED FERMENTATION EQUIPMENT AND METHOD ~71:ANHUI BEIBAO FOOD CO., LTD, No. 6, Fengguan Road, Fenghuangshan Economic Development Zone, Huaibei, Anhui, 235000, People's Republic of China ~72: PAN, Deng~ 33:CN ~31:202311337039.8 ~32:16/10/2023

2024/02699 ~ Complete ~54:ELECTRIC SWITCHING SYSTEM AND METHOD FOR INITIALIZING SECONDARY SYSTEMS IN VEHICLES ~71:ROBERT BOSCH LIMITADA, Via Anhanguera, KM 98, Vila Boa Vista, 13065900, Campinas, São Paulo, Brazil ~72: ANTONI BOMBESSI;FRANCISCO HENRIQUE CARRARA;LUIS MIGUEL GAMA FRANCISCO~ 33:BR ~31:BR 102021018346-2 ~32:15/09/2021

2024/02703 ~ Complete ~54:PYRIDINES AND THEIR USE IN TREATMENT OF GBA-RELATED DISEASES ~71:ZEVRA DENMARK A/S, Ole Maaløes Vej 3, 2200, Copenhagen, Denmark ~72: KENNETH THIRSTRUP;SØREN NEVE;WILLIAM DALBY BROWN~ 33:EP ~31:21199468.6 ~32:28/09/2021

2024/02706 ~ Complete ~54:POLYPEPTIDE AND APPLICATION THEREOF AS CCK RECEPTOR AGONIST/ANTAGONIST ~71:CENTRE FOR REGENERATIVE MEDICINE AND HEALTH, HONG KONG INSTITUTE OF SCIENCE & INNOVATION, CHINESE ACADEMY OF SCIENCES LIMITED, 5/F, 15 Science Park West Avenue Hong Kong Science Park, Pak Shek Kok N.T., People's Republic of China;CITY UNIVERSITY OF HONG KONG, 83 Tat Chee Avenue Kowloon,, People's Republic of China ~72: HE, Jufang;TORTORELLA, Mickey Daniel~ 33:CN ~31:202111222161.1 ~32:20/10/2021

2024/02707 ~ Complete ~54:ELECTROTHERMIC COMPOSITIONS AND RELATED COMPOSITE MATERIALS AND METHODS ~71:FLEXAHOPPER PLASTICS LTD., 2530 – 39TH STREET, LETHBRIDGE, Canada ~72: FAGHIHI, Farhad;SPENCELEY, James W.~

2024/02679 ~ Complete ~54:EQUIPMENT OPERATION MONITORINGAND MANAGEMENT SYSTEM AND METHOD BASED ON INTELLIGENT ANALYSIS ~71:ZHENGZHOU YOUMEI INTELLIGENT TECHNOLOGY CO., LTD., 6th Floor, Block B, No. 4 Building, Innovation Park, Henan University Science and Technology Park (East Zone), No. 289 West Third Ring Road, High tech Zone, Zhengzhou City, People's Republic of China ~72: Guopeng LI;Lei YU;Lijun Guo;Renyan ZHAO;Zhong LI~ 33:CN ~31:2023115856945 ~32:24/11/2023

2024/02777 ~ Complete ~54:ENGINEERED PD-1 ANTIBODIES AND USES THEREOF ~71:MIROBIO LIMITED, First Floor, Winchester House, Heatley Road, Oxford Science Park, United Kingdom ~72: CHRISTOPHER PALUCH;LYNNE MURRAY~ 33:US ~31:63/281,404 ~32:19/11/2021

2024/02669 ~ Complete ~54:BOOK TEMPORARY STORAGE AND TRANSFER DEVICE FOR BOOK MANAGEMENT AND WORKING METHOD THEREOF ~71:CHANGZHOU INSTITUTE OF TECHNOLOGY, No.

666 Liaohe Road, Xinbei District, Changzhou City, Jiangsu Province, People's Republic of China ~72: TIAN Wentong~

2024/02677 ~ Complete ~54:WASTE ANESTHETIC GAS EXTRACTION DEVICE AND ANESTHETIC APPARATUS ~71:SOOCHOW UNIVERSITY, No.199 Renai Road, Industrial Park, Suzhou, Jiangsu, 215000, People's Republic of China ~72: BI, Guorong;DING, Jun;HUO, Wenwen;JI, Fuhai;KUAI, Lingyu;LEI, Yishan;LI, Lin;LI, Wenting;LIU, Huayue;LIU, Linlin;MA, Zhengmin;MENG, Xiaowen;PENG, Ke;SHAN, Xisheng;WANG, Yichan;WANG, Yu;WANG, Yulan;XU, Qiya;XU, Shangxian;YANG, Guowang;YANG, Yufan;YE, Jianqin;ZHANG, Mian;ZHAO, Dan;ZHU, Yajuan~

2024/02681 ~ Complete ~54:GOLD INVERSE OPAL MICROSPHERE AND PREPARATION METHOD AND APPLICATION THEREOF ~71:JIANGSU CANCER HOSPITAL, No. 42 Baiziting, Xuanwu District, Nanjing City, Jiangsu Province, 210009, People's Republic of China ~72: MU, Zhongde;WANG, Qi;YE, Feng;ZHAI, Zhenyu~

2024/02686 ~ Complete ~54:ROTATABLE FULLY AUTOMATIC FERMENTATION DEVICE AND FERMENTATION METHOD THEREOF ~71:ANHUI BEIBAO FOOD CO., LTD, No. 6, Fengguan Road, Fenghuangshan Economic Development Zone, Huaibei, Anhui, 235000, People's Republic of China ~72: PAN, Deng~ 33:CN ~31:202311301077.8 ~32:08/10/2023

2024/02691 ~ Complete ~54:MODIFIED GUIDE RNAS FOR GENE EDITING ~71:INTELLIA THERAPEUTICS, INC., 40 Erie Street, Cambridge, United States of America ~72: CHEN, Weijun;CHOI, Sung Hee;MULEPATI, Sabin;PARMAR, Rubina Giare;STRETZ, Lindsey Jean;YOON, Eun Soo;YOUNG, Michelle~ 33:US ~31:63/275,426 ~32:03/11/2021;33:US ~31:63/352,161 ~32:14/06/2022

2024/02694 ~ Complete ~54:SOLAR ENERGY STORAGE AND POWER GENERATION SYSTEM ~71:WINNER TECHNOLOGY CO., LTD., 1F., No.27, Huamei St. Miaoli County, Taiwan (R.O.C) ~72: LIN, Chih-shen~ 33:CN ~31:202111197780.X ~32:14/10/2021

2024/02696 ~ Complete ~54:NEW QUINOLINE DERIVATIVES ~71:Elanco Animal Health GmbH, Alfred-Nobel-Str. 50, MONHEIM AM RHEIN 40789, GERMANY, Germany ~72: BOERNGEN, Kirsten;GRIEBENOW, Nils;HEISLER, Iring;HÜBSCH, Walter;KULKE, Daniel;SELBACH, Claudia;TAHTAOUI, Chouaib;ZHUANG, Wei~ 33:EP ~31:21195853.3 ~32:09/09/2021

2024/02704 ~ Complete ~54:INTELLIGENT MONITORING SYSTEM FOR MINERAL LOADING PROCESS ~71:JEPI S.A.C., Bronsino 477, Lima, 15037, Peru;MAURICIO MESONES AURICH, Jr. Bronsino 477, Lima, 15037, Peru ~72: CHRISTIAN PORTUGAL ZAMBRANO;EDER JOEL VIVANCO OLIVERA;MARLON ARNALDO VALERIO OGOSI;MAURICIO MESONES AURICH;YHERICO ALBERTO CARPIO REYNOSO~ 33:PE ~31:001494-2021/DIN ~32:10/09/2021

2024/02672 ~ Complete ~54:AN ARTIFICIALLY INTELLIGENT MULTI-MODE DEVICE AND SYSTEM FOR WIRELESS PHYSIOLOGICAL MONITORING INTEGRATED WITH HOLOGRAPHIC FEEDBACK ~71:Abrina S J, Final Year Student, Department of Mechatronics, SRMIST, No. 7/13, Girija Nagar West, Kolathur Main Road, Chennai, Tamil Nadu, 600099, India;Dr. Jyothsna Volisha Cardoza, Assistant Professor, Department of Physiotherapy, Krupanidhi College of Physiotherapy, 12/1, Chikkabellandur, Varthur Hobli, Carmelaram, Bengaluru, Karnataka, 560035, India;Dr. Zeeshan Ali, Assistant Professor, Department of Physiotherapy, Krupanidhi College of Physiotherapy, 12/1, Chikkabellandur, Varthur Hobli, Carmelaram, Bengaluru, Karnataka, 560035, India;K R Sibivardhan, Final Year Student, Department of Mechatronics, SRMIST, P - 305/306, Ishayara Apartments, Vadakkupattu Main Road, Medavakkam, Chennai, Tamil Nadu, 600100, India;Sudhan S G, Principal and Professor, Department of Physiotherapy, Krupanidhi College of Physiotherapy, No. 7/13, Girija Nagar West, Kolathur Main Road, Chennai, Tamil Nadu, 600099, India;Vijay Pratap Singh, Associate Professor, KMC Mangalore - MAHE, Department of Physiotherapy, C - 20, Manipal Staff Quarters, Lighthouse Hill Road,

Mangaluru, Karnataka, 575001, India ~72: Abrina S J;Dr. Jyothsna Volisha Cardoza;Dr. Zeeshan Ali;K R Sibivardhan;Sudhan S G;Vijay Pratap Singh~ 33:IN ~31:202441017393 ~32:11/03/2024

2024/02678 ~ Complete ~54:CHILD-BASED PEDESTRIAN PROTECTION DEVICE AND METHOD AND VEHICLE ~71:Zhejiang University of Science and Technology, 318 Liuhe Road, Xihu District, Hangzhou City, Zhejiang Province, 310023, People's Republic of China ~72: FAN, Tiqiang;HU, Zhong'an;SUN, Bo;TANG, Youming;WANG, Ping;WANG, Yu;ZHANG, Haiyang;ZHANG, Yi;ZHAO, Hong~

2024/02666 ~ Provisional ~54:CONTINUOUS ROTARY PLASTIC CUP FLANGE VACUUM CLEANING DEVICE ~71:H G MOLENAAR AND COMPANY PROPRIETARY LIMITED, Jan van Riebeeck Drive, Paarl, 7646, SOUTH AFRICA, South Africa ~72: STEYN, Hendrik Ferdinand;SWINGBURN, Devon Alec;VAN DER WESTHUIZEN, Wynand;VAN EEDEN, Francois~

2024/02755 ~ Complete ~54:METHOD AND SYSTEM FOR SEEDLING DIAMETER MEASUREMENT BASED ON MACHINE VISION ~71:HARBIN FORESTRY MACHINERY RESEARCH INSTITUTE, STATE FORESTRY AND GRASSLAND ADMINISTRATION, NO. 374, XUEFU ROAD, People's Republic of China ~72: CONG, Rizheng;HAN, Lizhi;HU, Jingyang;LI, Shifang;MA, Ling;YI, Honglei;ZHANG, Beihang;ZHANG, Weiguo~

2024/02674 ~ Complete ~54:A METHOD FOR PREPARING SCHEELITE TYPE RED FLUORESCENT POWDER BY COMBUSTION METHOD ~71:NANTONG UNIVERSITY, NO.9 Seyuan Road, Nantong, Jiangsu, People's Republic of China ~72: CHEN, Cong;LI, Minmin;MIAO, Jianwen~ 33:CN ~31:2024103118916 ~32:18/03/2024

2024/02684 ~ Complete ~54:APPARATUS AND METHOD FOR MANUFACTURING SAUSAGES ~71:FREDDY HIRSCH GROUP PROPRIETARY LIMITED, Cnr. 11th Avenue and Voortrekker Road, Maitland, Cape Town, 7405, SOUTH AFRICA, South Africa ~72: FRITZ, Heindrich;LAUBSCHER, Jacobus Martin;SCHULTZ, Hermann August~ 33:ZA ~31:2023/04360 ~32:13/04/2023

2024/02695 ~ Complete ~54:REGIONAL CARBON EMISSION INTELLIGENT MEASUREMENT SYSTEM BASED ON OPTIMIZATION AND COLLABORATION OF LOW-CARBON ENERGY UTILIZATION ~71:ANHUI BLUE OCEAN LIGHT TECHNOLOGY CO, Chenxi Cai No.1265, ZhaoXia Road, Hi-Tech Area, Suzhou, 234099, People's Republic of China ~72: Changhui CAI;Chenxi CAI~ 33:CN ~31:2022114801989 ~32:24/11/2022

2024/02705 ~ Complete ~54:BIODEGRADABLE INSECT TRAP ~71:DANIMER IPCO, LLC, 140 Industrial Boulevard Bainbridge, Georgia, 39817, United States of America ~72: CAROL G LEGGETT;CHERYL G WARE~ 33:US ~31:63/244,285 ~32:15/09/2021

2024/02670 ~ Complete ~54:ANTI-COLLISION DEVICE FOR SHIPS ~71:Binzhou Polytechnic, No. 919 Huanghe 12th Road, Bincheng District, Binzhou City, Shandong Province, 256603, People's Republic of China ~72: BI Yanliang;CHEN Haibo;HAN Fangxin;ZHAI Wei;ZHAO Zhiqiang;ZHONG Guangrong;ZONG Yonggang~

2024/02676 ~ Complete ~54:PIT DIGGING DEVICE FOR SAND CONTROL AND TREE PLANTING ENGINEERING ~71:Gansu Desert Control Research Institute, No. 390, Beibinhe West Road, Anning District, Lanzhou City, Gansu Province, People's Republic of China ~72: HAN, Shenghui;LI, Guangyu;SONG, Dacheng;WU, Hao;ZHAO, Peng~

2024/02687 ~ Complete ~54:STABLE CONNECTION SYSTEM FOR FIXING WORN PART OF EXCAVATION EQUIPMENT AND ASSEMBLY METHOD THEREOF ~71:NINGBO HESHUN NEW MATERIALS CO., LTD., Chenhuang Village Yunlong Town Yinzhou District, Ningbo, Zhejiang, 315137, People's Republic of China ~72: HUI LI;MEIKANG REN~ 33:CN ~31:202410068311.5 ~32:17/01/2024

2024/02690 ~ Complete ~54:METHODS FOR ATTENUATING ATOPIC MARCH BY ADMINISTERING AN IL-4/IL-13 ANTAGONIST ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: GEBA, Gregory;LI, Dateng;LI, Judy Xiang~ 33:US ~31:63/295,113 ~32:30/12/2021

2024/02673 ~ Complete ~54:HEAVY PLATE FEEDER WITH MATERIAL CLEANING DEVICE ~71:Tangshan University, No. 11 University West Road, Hi-tech Zone, Tangshan, Hebei Province, People's Republic of China ~72: HAN Yuqiang;LIU Liwei;SONG Xiaoying;YUE Jianjiang;ZHANG Yiyang~

2024/02680 ~ Complete ~54:A METHOD FOR THE INDIRECT CONTACT BETWEEN PREFABRICATED CEMENT CONCRETE PAVEMENT PANELS IN LOGISTICS PARKS ~71:SHANDONG HI-SPEED QILU CONSTRUCTION GROUP CO., LTD, 29 Yanzishan Road, Lixia District, Jinan City, Shandong Province, People's Republic of China ~72: Fu Guoxin;Fu Tao;Ren Quangang;Wang Xiaoqiang;Xu Weibo;Yan Lubo~ 33:CN ~31:202410288603X ~32:14/03/2024

2024/02698 ~ Complete ~54:CATALYST FOR REDUCING SOX AND NOX IN FLUE GAS, PREPARATION METHOD THEREFOR, AND METHOD FOR REMOVING SOX AND NOX FROM FLUE GAS ~71:CHINA PETROLEUM & CHEMICAL CORPORATION, 22 Chaoyangmen North Street, Chaoyang District,, People's Republic of China;SINOPEC RESEARCH INSTITUTE OF PETROLEUM PROCESSING CO., LTD., Zone 3, No. 18 Xueyuan Road, Haidian District, People's Republic of China ~72: FENG, Menglong;JIANG, Qiuqiao;QU, Yakun;SHA, Hao;SONG, Haitao;ZHAO, Dongyue~ 33:CN ~31:202111054717.0 ~32:09/09/2021;33:CN ~31:202111055118.0 ~32:09/09/2021;33:CN ~31:202111055151.3 ~32:09/09/2021;33:CN ~31:202111055913.X ~32:09/09/2021

2024/02701 ~ Complete ~54:OXIMES AND THEIR USE IN TREATMENT OF GBA-RELATED DISEASES ~71:ZEVRA DENMARK A/S, Ole Maaløes Vej 3, 2200, Copenhagen, Denmark ~72: KENNETH THIRSTRUP;SØREN NEVE;WILLIAM DALBY BROWN~ 33:EP ~31:21199458.7 ~32:28/09/2021

- APPLIED ON 2024/04/09 -

2024/02711 ~ Complete ~54:MARINE POLLUTION PREVENTION DEVICE ~71:Binzhou Polytechnic, No. 919 Huanghe 12th Road, Bincheng District, Binzhou City, Shandong Province, 256603, People's Republic of China ~72: BI Yanliang;CUI Wentao;CUI Xuan;LI Zhaoqiang;LI Zunmin;LU Baocheng;ZHAI Wei;ZHAO Xuegang;ZHAO Zhiqiang~

2024/02714 ~ Complete ~54:MANAGEMENT SYSTEM FOR REMOTELY SUPERVISING POST INTERNSHIP OF COLLEGE STUDENT ~71:Jiaxing Vocational and Technical College, No. 547 Tongxiang Avenue, Jiaxing, Zhejiang Province, 314001, People's Republic of China ~72: Zhe HE~

2024/02719 ~ Complete ~54:FLEXIBLE GRAPHITE POLAR PLATE PREPARATION DEVICE AND PREPARATION METHOD THEREFOR ~71:Jiaxing Vocational and Technical College, No. 547 Tongxiang Avenue, Jiaxing, Zhejiang Province, 314001, People's Republic of China ~72: Zhe HE~

2024/02720 ~ Complete ~54:LAYERED CODING FOR COMPRESSED SOUND OR SOUND FIELD REPRESENTATIONS ~71:DOLBY INTERNATIONAL AB, Apollo Building, 3E Herikerbergweg 1-35, 1101 CN, Amsterdam Zuidoost, Netherlands ~72: ALEXANDER KRUEGER;SVEN KORDON~ 33:EP ~31:15306590.9 ~32:08/10/2015;33:US ~31:62/361,809 ~32:13/07/2016

2024/02722 ~ Complete ~54:A MODULAR MERCHANDISE DISPLAY ~71:SMART CART (PTY) LTD, First Floor, Trafalgar House, corner St Andrew Str & Edgewood Ave, Birdhaven 2196, South Africa ~72: CECIL WINTON UNGERER~



2024/02724 ~ Complete ~54:AIR CONDITIONER USING WATER VAPOR REFRIGERANT FOR MODULAR DATA CENTER AND DATA CENTER COMPRISING SAME ~71:BEIJING JINGKELUN ENGINEERING DESIGN AND RESEARCH INSTITUTE CO., LTD., Room 301, Building 2, No. 12 Juyuan Middle Road, People's Republic of China ~72: CHEN, Ximou;KANG, Jianhui;LI, Xiaolong;WANG, Quanjiang;XIE, Weibo;YANG, Jianguo;ZHANG, Jilong;ZHOU, Chengjun~ 33:CN ~31:202210586820.8 ~32:27/05/2022

2024/02733 ~ Complete ~54:AUTOMATIC MOUNTING ROBOT SYSTEM FOR TOWER COLUMN DRAG HOOK BAR ~71:CCCC SECOND HARBOR ENGINEERING COMPANY LTD., No. 11 Jinyinhu Road, Dongxihu District, Wuhan, Hubei, 430048, People's Republic of China ~72: CHEN, Bin;CHENG, Maolin;DONG, Qifeng;HUANG, Jian;HUANG, Jian;LIU, Hang;LIU, Ningbo;LIU, Xiucheng;TIAN, Wei;WU, Zhongzheng;XIA, Hao;XIAO, Hao;XU, Liang;YAN, Shuangqiao;YANG, Xiuli;YOU, Xinpeng;YU, Changwen;ZHANG, Hong;ZHANG, Yongtao;ZHOU, Shu;ZHU, Mingqing~ 33:CN ~31:202211705979.3 ~32:29/12/2022

2024/02740 ~ Complete ~54:COMPOSITION ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: STEPHEN NORMAN BATCHELOR~ 33:EP ~31:21204775.7 ~32:26/10/2021

2024/02748 ~ Complete ~54:DUAL CLUTCH ASSEMBLY, HYBRID POWER SYSTEM, AND VEHICLE ~71:Chery Automobile Co., Ltd., No. 8, Changchun Road, Economy & Technology Development Zone, WUHU 241006, ANHUI, CHINA (P.R.C.), People's Republic of China ~72: GENG, Lizhen;HUANG, Dong;ZHANG, Hengxian;ZHOU, Zhiguang~ 33:CN ~31:202111232576.7 ~32:22/10/2021

2024/02778 ~ Complete ~54:MEMBRANE FILTER AND METHOD FOR PRODUCING A MEMBRANE FILTER ~71:MEMBION GMBH, Schwerzfelder Straße 33, Germany ~72: VOLMERING, Dirk;VOSENKAUL, DR., Klaus~ 33:DE ~31:10 2021 124 250.9 ~32:20/09/2021

2024/02721 ~ Complete ~54:INTEGRATION OF HIGH FREQUENCY RECONSTRUCTION TECHNIQUES WITH REDUCED POST-PROCESSING DELAY ~71:DOLBY INTERNATIONAL AB, Apollo Building, 3E Herikerbergweg 1-35, 1101 CN, Amsterdam Zuid Oost, Netherlands ~72: HEIKO PURNHAGEN;KRISTOFER KJOERLING;LARS VILLEMOES;PER EKSTRAND~ 33:US ~31:62/662,296 ~32:25/04/2018

2024/02728 ~ Complete ~54:NOVEL ANELLOVECTOR COMPOSITIONS AND METHODS ~71:FLAGSHIP PIONEERING INNOVATIONS V, INC., 55 Cambridge Parkway, 8th Floor, Suite 800E, United States of America ~72: ARZE, Cesar, A.;DELAGRAVE, Simon;HAJJAR, Roger, Joseph;NAWANDAR, Dhananjay Maniklal;ONG, Tuyen;SWANSON, Lianna;YOZWIAK, Nathan, Lawrence~ 33:US ~31:63/254,854 ~32:12/10/2021;33:US ~31:63/320,515 ~32:16/03/2022

2024/02731 ~ Complete ~54:MUTATED HYDROXYPHENYLPYRUVATE DIOXYGENASE POLYPEPTIDE, AND CODING GENE AND USE THEREOF ~71:BEIJING DABEINONG BIOTECHNOLOGY CO., LTD., 1st Floor, No.2 Building, Yard 19, Chengwan Street, People's Republic of China ~72: SONG, Qingfang;TAO, Qing;XIAO, Xiang;YU, Caihong~

2024/02735 ~ Complete ~54:FABRIC DRYING DEVICE AND PROCESS FOR SMART SCHOOL UNIFORM PRODUCTION ~71:Yin Hang, Room 601, Unit 3, Building 1, Sanjian Jixiang Yuan Address, Lixia District, Jinan City, Shandong Province, People's Republic of China ~72: Yin Hang~ 33:CN ~31:202310971096.5 ~32:03/08/2023

2024/02739 ~ Complete ~54:HYGIENE COMPOSITION FOR REDUCTION OF MALODOUR ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: NAMISHA MOHAPATRA;RAMYA SAMPATH KUMAR;SAMIRAN MAHAPATRA~ 33:IN ~31:202121050437 ~32:03/11/2021;33:EP ~31:22150064.8 ~32:03/01/2022

2024/02708 ~ Provisional ~54:PLASMID FOR GENE EXPRESSION ~71:VIRO-GEN (PTY) LTD, 313 Cliff Avenue, Waterkloof Ridge X2, South Africa ~72: ALEXANDRE, Kabamba Bankoledi;SMIT, Michelle Olga Patricia Giesteira Da Silva~

2024/02712 ~ Complete ~54:FUNCTIONAL TEA OF MUSCADINIAROTUNDIFOLIAMICHX. AND WILD CHINESE GOOSEBERRY AND PREPARATION METHOD THEREFOR ~71:JINHUA ACADEMY OF AGRICULTURAL SCIENCES, No.1158, Zhihe Road, Sumeng Township, Wucheng District, Jinhua City, People's Republic of China ~72: LOU, Jidao;LUO, Huatao;QIAN, Cheng;QIAN, Dongnan;XU, Fujun;XU, Jianzhong~

2024/02723 ~ Complete ~54:AN ANTIOXIDANT COMPOSITION AND APPLICATION THEREOF ~71:Ningxia Academy of Agriculture and Forestry Sciences, Institute of Animal Science (Ningxia Grass-livestock Engineering Technology Research Center), No.590 East Huanghe Road, Jinfeng District, Yinchuan, Ningxia, People's Republic of China ~72: Dun Wang;Haihui Gao;Jiandong Wang;Jin Wang;Jiupan Zhang;Lina Zhou;Xiaodong Kang;Xiaojun Liang;Yanan Guo;Yansheng Guo;Youli Yu;Zhengwei Zhao~ 33:CN ~31:2024102513829 ~32:05/03/2024

2024/02727 ~ Complete ~54:FINANCIAL INFORMATION ENRICHMENT FOR INTELLIGENT CREDIT DECISION MAKING ~71:YODLEE, INC., 999 Baker Way, Suite 100, United States of America ~72: JANA, Sri Harsha;JAYARAMAN, Vijesh;MJ, Raghavendra Shyam;SINGH, Pramod;SURYANARAYANAN, Smitha~ 33:US ~31:17/511,426 ~32:26/10/2021

2024/02734 ~ Complete ~54:SCUBA KNIT UNDERWEAR FOR CHILDREN AND PREPARATION PROCESS THEREOF ~71:Yin Hang, Room 601, Unit 3, Building 1, Sanjian Jixiang Yuan Address, Lixia District, Jinan City, Shandong Province, People's Republic of China ~72: Yin Hang~ 33:CN ~31:202310848418.7 ~32:12/07/2023

2024/02746 ~ Complete ~54:GLOVE STRUCTURE ~71:John Engine Sports Products Inc, 2F-B2-02, No.8 Building, Office Park, No.27 Xinjinqiao Road, Pudong, SHANGHAI 201206, CHINA (P.R.C.), People's Republic of China ~72: CAI, Wenlan;LI, Qingfeng~ 33:CN ~31:202111118812.2 ~32:23/09/2021

2024/02710 ~ Provisional ~54:MINI MOBILE ASPHALT RECYCLER, ~71:sanelisiwe ziqubu, 2302 Tygerberg, South Africa ~72: Sanelisiwe Ziqubu~

2024/02715 ~ Complete ~54:RAIL VIBRATION AND NOISE REDUCTION DEVICE FOR URBAN RAIL TRANSIT TECHNICAL FIELD ~71:Jiaxing Vocational and Technical College, No. 547 Tongxiang Avenue, Jiaxing, Zhejiang Province, 314001, People's Republic of China ~72: Zhe HE~

2024/02718 ~ Complete ~54:AN OVER-THE-COUNTER TRADITIONAL CHINESE MEDICINE FOR WEIGHT LOSS ~71:Chongqing Kangershou Biopharmaceutical Technology Co., Ltd, No. 404, Datong Street, Tongnan Dist., Chongqing, People's Republic of China ~72: Shucaì Deng~ 33:CN ~31:2024103015055 ~32:16/03/2024

2024/02713 ~ Complete ~54:TREATMENT SOLUTION FOR TOMATO PLANTING AND APPLICATION THEREOF, AND METHOD FOR IMPROVING COLD RESISTANCE OF TOMATOES ~71:ZHEJIANG ACADEMY OF AGRICULTURAL SCIENCES, 298 Desheng Middle Road, Shangcheng District, Hangzhou City, People's Republic of China ~72: CHENG, Yuan;LI, Zhimiao;LIU, Chenxu;RUAN, Meiyong;WAN, Hongjian;WANG, Rongqing;YAO, Zhuping;YE, Qingjing;ZHOU, Guozhi~

2024/02730 ~ Complete ~54:INTERLEUKIN 2 CHIMERIC CONSTRUCTS WITH TARGETING SPECIFICITY TO INFLAMED TISSUES ~71:ASSISTANCE PUBLIQUE - HÔPITAUX DE PARIS, 3 Avenue Victoria, France;ILTOO PHARMA, 14 rue des Reculettes, France;INSERM (INSTITUT NATIONAL DE LA SANTÉ ET DE LA RECHERCHE MÉDICALE), 101 Rue de Tolbiac, France;SORBONNE UNIVERSITE, 21 rue de l'Ecole de

Médecine, France ~72: BILLIALD, Nicolas;KLATZMANN, David;TEDGUI, Alain;VAZQUEZ, Thomas~ 33:EP  
~31:21306399.3 ~32:06/10/2021

2024/02736 ~ Complete ~54:SELECTIVE 1-HEXENE/1-OCTENE PRODUCTION WITH 1-DECENE  
~71:CHEVRON PHILLIPS CHEMICAL COMPANY LP, 10001 Six Pines Drive, The Woodlands, Texas, 77380,  
United States of America ~72: JAMES HILLIER;STEVEN BISCHOF~ 33:US ~31:17/471,278 ~32:10/09/2021

2024/02744 ~ Complete ~54:DATA OFFLOADING METHOD AND APPARATUS, ELECTRONIC DEVICE, AND  
STORAGE MEDIUM ~71:ZTE CORPORATION, ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan  
District, Shenzhen, People's Republic of China ~72: WANG, Lingbin;WU, Feng;ZHANG, Wanchun~ 33:CN  
~31:202111275394.8 ~32:29/10/2021

2024/02747 ~ Complete ~54:A NON-FAT CREAMER POWDER, AND A METHOD OF MAKING THE SAME  
~71:Koninklijke Douwe Egberts B.V., Vleutensevaart 35, UTRECHT 3532 AD, THE NETHERLANDS, Netherlands  
~72: FOURIE, Blythe Frances;HARRIS, Gayle;SAVILLE, Lauren Amy~ 33:GB ~31:2113481.2 ~32:22/09/2021

2024/02709 ~ Provisional ~54:AN ELECTRONIC PRINTER MANAGEMENT FACILITY ~71:INDISTY (PTY) LTD,  
PPI HOUSE, 9A Sturdee Avenue, Rosebank, South Africa ~72: VAN DER MERWE, Rian;VAN TONDER,  
Johannes Christiaan~

2024/02717 ~ Complete ~54:ENTEROMORPHA POLYSACCHARIDE CALCIUM FEED ADDITIVE FOR  
IMPROVING CHICKEN PRODUCTS OR CHICKEN SLAUGHTERING PERFORMANCE AND ITS  
APPLICATION ~71:Qingdao Seawin Biotech Group Co., Ltd., No. 127, Huizhiqiao Road, High-tech Zone,  
Qingdao City, Shandong Province, 266114, People's Republic of China ~72: DAI Mingqin;LI Tiejun;LIU  
Yanni;SUN Yingchao;WANG Haihua;WANG Lubo;WANG Yichao;ZHANG Nan~ 33:CN ~31:2023104822911  
~32:29/04/2023

2024/02725 ~ Complete ~54:SYSTEM AND METHOD/PROCESS FOR COMMERCIAL BLASTING ~71:ORICA  
INTERNATIONAL PTE LTD, 70 Anson Road, #07-02 Hub Synergy Point, Singapore ~72: KOTSONIS,  
Steven;NGUYEN, Anh Tuan;SMITH, Gil Edward~ 33:SG ~31:10202111176X ~32:07/10/2021

2024/02729 ~ Complete ~54:POLYNUCLEOTIDES, COMPOSITIONS, AND METHODS FOR GENOME  
EDITING ~71:INTELLIA THERAPEUTICS, INC., 40 Erie Street, Cambridge, United States of America ~72:  
MULEPATI, Sabin;STRETZ, Lindsey Jean~ 33:US ~31:63/275,425 ~32:03/11/2021;33:US ~31:63/352,158  
~32:14/06/2022

2024/02737 ~ Complete ~54:NOVEL COMBINATIONS OF ANTIBODIES AND USES THEREOF ~71:BIOINVENT  
INTERNATIONAL AB, Ideongatan 1, SE-223 70, Lund, Sweden;TRANSGENE SA, 400 Boulevard Gonthier  
d'Andernach, Parc d'Innovation – CS80166, 67405 Illkirch Graffenstaden Cedex, France ~72: BJÖRN  
FRENDEUS;JEAN-BAPTISTE MARCHAND;LINDA MÅRTENSSON;MATILDA REHN;MONIKA SEMMRICH~  
33:EP ~31:21306310.0 ~32:22/09/2021;33:EP ~31:22305050.1 ~32:18/01/2022

2024/02741 ~ Complete ~54:CLEANSING BAR AND COMPOSITION THEREOF ~71:UNILEVER GLOBAL IP  
LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: GUOHUI WU~ 33:EP  
~31:21205768.1 ~32:01/11/2021

2024/02743 ~ Complete ~54:COMPOSITIONS AND METHODS FOR ENHANCING AND EXPANDING  
INFECTION INDUCED IMMUNITY ~71:AIM IMMUNOTECH INC., 2117 SW Highway, 484, Ocala, Florida, 34473,  
United States of America ~72: DAVID R STRAYER;THOMAS K EQUELS~ 33:US ~31:63/248,232  
~32:24/09/2021

2024/02745 ~ Complete ~54:ANTI-ANG2 ANTIBODY, PREPARATION METHOD THEREFOR, AND APPLICATION THEREOF ~71:Soter Biopharma Pte. Ltd., 1 Coleman Street, The Adelphi #08-01, 179803, SINGAPORE, Singapore ~72: FANG, Lijuan;HUA, Shan;SHI, Jian;YAN, Yongxiang;ZHANG, Jing;ZHOU, Pengfei~

2024/02716 ~ Complete ~54:PREFABRICATED RURAL RESIDENTIAL STRUCTURE SYSTEM ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467041, People's Republic of China ~72: DENG, Chaojie;GUO, Chengcheng;LI, Yansong;SHI, Luke;WANG, Yi;WANG, Zili;WU, Hairong;YOU, Peibo;ZHAO, Jin;ZHENG, Chao~

2024/02726 ~ Complete ~54:DUAL-TARGETING COMPOUND AND PREPARATION METHOD AND APPLICATION THEREOF ~71:YANTAI LANNACHENG BIOTECHNOLOGY CO., LTD., Room 101, Building 52, No. 500 Binhai East Road, Muping District, Yantai, People's Republic of China ~72: CHEN, Xiaoyuan;GUO, Zhide;WEN, Xuejun;WU, Xiaoming;XU, Pengfei;YANG, Qingbao~ 33:CN ~31:202211201081.2 ~32:29/09/2022

2024/02732 ~ Complete ~54:MULTIEPITOPE SELF-ASSEMBLED NANOPARTICLE VACCINE PLATFORM (MSN-VACCINE PLATFORM) AND USES THERE OF ~71:TRANSLATIONAL HEALTH AND SCIENCE AND TECHNOLOGY INSTITUTE, NCR Biotech Science Cluster, 3rd Milestone, Faridabad-Gurgaon Expressway, Haryana, India ~72: AHMED, Shubbir;AWASTHI, Amit;KHATRI, Ritika;SAMAL, Sweety~ 33:IN ~31:202111046243 ~32:11/10/2021

2024/02738 ~ Complete ~54:CAP FOR CONTAINERS ~71:SACMI COOPERATIVA MECCANICI IMOLA SOCIETÀ COOPERATIVA, Via Selice Provinciale 17/A, 40026, Imola (Bologna), Italy ~72: ALESSANDRO FALZONI~ 33:IT ~31:102021000025709 ~32:07/10/2021

2024/02742 ~ Complete ~54:A LIQUID DISHWASH COMPOSITION ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: NAGARAJA ACHARYA I S;SAMIRAN MAHAPATRA;SHANTHI APPAVOO~ 33:EP ~31:22153763.2 ~32:27/01/2022

- APPLIED ON 2024/04/10 -

2024/02759 ~ Complete ~54:ENVIRONMENT-FRIENDLY AND ENERGY-SAVING DUST REMOVAL DEVICE ~71:Guangdong University of Petrochemical Technology, No.139 Guandu Second Road, Maonan District, Maoming City, Guangdong Province, People's Republic of China ~72: HE Yajing~ 33:CN ~31:2023117396293 ~32:18/12/2023

2024/02766 ~ Complete ~54:3D PRINT HEAD AND 3D PRINTING MACHINE ~71:MECHATECH ENGINEERING SOLUTIONS PTY LTD, 21 Richard Rd, Broadwood, Gqeberha, 6070, South Africa ~72: ALEXANDER BLAIR STUART MACFARLANE;CULLEN LEO GILFILLAN;LLOYD ERNEST HORRMANN;THABELO MAKGAPOLE BRILLIANT~ 33:ZA ~31:2023/04947 ~32:04/05/2023

2024/02779 ~ Complete ~54:LASER CLEANING DEVICE FOR CLEANING INNER WALL OF OIL PIPELINE ~71:SHENYANG UNIVERSITY OF TECHNOLOGY, 111 Shenliao West Road, Shenyang Economic And Technological Development Zone, Shenyang, Liaoning, 110027, People's Republic of China ~72: BIAN Hongyou;JIANG Qingyu;LI Xiangjin;LIU Weijun;WANG Wei;WEI You;YUAN Zewei~ 33:CN ~31:2022111570817 ~32:22/09/2022

2024/02787 ~ Complete ~54:MOBILE ELECTRONIC LOCK ~71:ABUS AUGUST BREMICKER SÖHNE KG, Altenhofer Weg 25 Wetter-Volmarstein, 58300, Germany ~72: MANUEL CORNELIUS NEVELING;MARKUS THEIS~ 33:DE ~31:10 2022 100 409.0 ~32:10/01/2022

2024/02792 ~ Complete ~54:GAS FERMENTATION CONVERSION OF CARBON DIOXIDE INTO PRODUCTS ~71:LANZATECH, INC., 8045 Lamon Avenue, Suite 400, Skokie, Illinois, 60077, United States of America ~72: RICHARD RUSSELL ROSIN;ROBERT JOHN CONRADO;SEAN ALEX ROLLAG;TAYLOR CRAIG SCHULZ;YEN-LU YU~ 33:US ~31:63/251,681 ~32:03/10/2021

2024/02794 ~ Complete ~54:METHODS AND SYSTEMS FOR DISTRIBUTED BLOCKCHAIN FUNCTIONALITIES ~71:nChain Licensing AG, Grafenauweg 6, ZUG 6300, SWITZERLAND, Switzerland ~72: WRIGHT, Craig Steven~ 33:GB ~31:2115512.2 ~32:28/10/2021

2024/02798 ~ Complete ~54:GOLD CONTAINING CATALYST, METHOD OF PREPARATION AND USE ~71:Johnson Matthey Public Limited Company, 5th Floor, 25 Farringdon Street, LONDON EC4A 4AB, UNITED KINGDOM, United Kingdom ~72: CARTHEY, Nicholas;DUMMER, Nicholas Francois;HUTCHINGS, Graham John;JOHNSTON, Peter;LAZARIDOU, Anna;PATTISSON, Samuel David;SMIT, Joost;SMITH, Louise Rhiannon~ 33:EP ~31:21386079.4 ~32:17/12/2021

2024/02750 ~ Provisional ~54:FRICTION ROCK STABILISER WITH EXPANSION WEDGE MECHANISM ~71:RSC MINING (PTY) LTD, 1 Tedstone Rd., South Africa ~72: TBA~

2024/02762 ~ Complete ~54:WELDING DEVICE FOR SHIP PARTS ~71:Binzhou Polytechnic, No. 919 Huanghe 12th Road, Bincheng District, Binzhou City, Shandong Province, 256603, People's Republic of China ~72: BI Yanliang;CUI Wentao;WANG Bin;ZHAI Wei;ZHAO Zhiqiang~

2024/02768 ~ Complete ~54:A TRANSFER BED WITH AUXILIARY CARE STRUCTURE ~71:Jiangsu Province Academy of Traditional Chinese Medicine (Jiangsu Province Hospital of Integration of Chinese and Western Medicine), No. 100, Cross Street, Hongshan Road, Qixia District, Nanjing, Jiangsu Province, People's Republic of China ~72: CHENG Jingjing;QIN Tifang;WANG Bei;ZHOU Jian;ZHOU Qian~

2024/02771 ~ Complete ~54:DEVICE FOR RECOVERING INDUSTRIAL WASTEWATER SLUDGE ~71:ZHEJIANG HUIJIN ENVIRONMENTAL PROTECTION TECHNOLOGY CO., LTD., Longbanshan block, Cloud Peak Street Industrial Park, Suichang County, Lishui, People's Republic of China ~72: CAO, Haizhou;CAO, Zhentao;CHEN, Haijun;FANG, Jiansheng;JIN, Zhihe;LEI, Zhiyin;LIN, Lefeng;XIN, Xiaotong;YE, Chao;YUAN, Dewen;ZHANG, Zhi;ZHAO, Ninglong;ZHAO, Yanglei;ZHAO, Zheng~

2024/02774 ~ Complete ~54:PURIFICATION DEVICE FOR PRODUCING PHOSPHOTRIESTER FLAME RETARDANT ~71:ZHEJIANG HONGHAO TECHNOLOGY CO., LTD., Shangjiang block, Suichang County Industrial Park, People's Republic of China ~72: BAO, Zhiquan;CHEN, Xianmei;WANG, Ke;WANG, Wei;WU, Changwen;YU, Bainiu~

2024/02782 ~ Complete ~54:CASHMERE LOOP YARN WOVEN SCARF AND PRODUCTION PROCESS THEREOF ~71:INNER MONGOLIA Kingdeer Cashmere Company Limited, South of Donghe Bridge, Bayantala Street, Donghe District, Baotou City, Inner Mongolia Autonomous Region, People's Republic of China ~72: Xiurong FAN~ 33:CN ~31:2022116325845 ~32:19/12/2022

2024/02784 ~ Complete ~54:MACROCYCLIC COMPOUNDS AS PROTEASOME SUBUNIT BETA TYPE-5 INHIBITORS ~71:LEAD DISCOVERY CENTER GMBH, Otto-Hahn-Str. 15, 44227, Dortmund, Germany;QLI5 THERAPEUTICS AG, Otto-Hahn-Str. 15, 44227, Dortmund, Germany ~72: ANKE UNGER;AXEL CHOIDAS;BERT KLEBL;CARSTEN DEGENHART;GUNTHER ZISCHINSKY;JAESEUNG KIM;JEONGJEA SEO;JULIAN ENGEL;KIYEAN NAM;KLAUS DINKEL;PETER NUSSBAUMER;ROBERT HUBER;SEUNG-JOO LEE;UWE KOCH;WONGYUN AHN;YEEJIN JEON~ 33:EP ~31:21199013.0 ~32:24/09/2021



2024/02788 ~ Complete ~54:MICROTUBULE ASSOCIATED PROTEIN TAU (MAPT) IRNA AGENT COMPOSITIONS AND METHODS OF USE THEREOF ~71:ALNYLAM PHARMACEUTICALS, INC., 675 West Kendall Street, Henri A. Termeer Square, Cambridge, Massachusetts, 02142, United States of America ~72: ADAM CASTORENO;JAMES D MCININCH;JEFFREY ZUBER;JONATHAN EDWARD FARLEY;JOSEPH BARRY;MARK K SCHLEGEL;STEPHEN ABBOTT~ 33:US ~31:63/248,119 ~32:24/09/2021;33:US ~31:63/321,573 ~32:18/03/2022;33:US ~31:63/403,327 ~32:02/09/2022

2024/02797 ~ Complete ~54:COUPLED INVERSE TONE MAPPING AND TONE MAPPING ~71:InterDigital CE Patent Holdings, SAS, 3 rue du Colonel Moll, PARIS 75017, FRANCE, France ~72: CAUVIN, Laurent;JUMPERTZ, Jean-Luc;LE NAOUR, Robin;LOPEZ, Patrick;TOUZE, David~ 33:EP ~31:21306502.2 ~32:27/10/2021

2024/02753 ~ Provisional ~54:VERSATILE ROOF ANCHOR ~71:Johannes Jacobus Naude, 12 Arend avenue, South Africa ~72: Johannes Jacobus Naude~

2024/02756 ~ Complete ~54:INVENTION RELATES TO STORAGE MEDIUM AND DEVICE FOR BASE SURVEY OF HIGH RISK GROUPS OF AIDS ~71:Changzhou Maternal And Child Health Care Hospital, No.16 Dingxiang Road, Changzhou City, Jiangsu Province, 213000, People's Republic of China ~72: CHEN Kejin;LI Kai;RUI Linlin;YANG Jingjing;YUAN Xiaojie~

2024/02764 ~ Complete ~54:A MEDICINAL COMPONENT FOR TREATING AMNESIA CAUSED BY HEART DEFICIENCY, LOW BLOOD COUNT, EXCESSIVE WORRY AS WELL AS DAMAGE TO THE HEART AND SPLEEN ~71:Jiayu Zhu, Liaoning University of Traditional Chinese Medicine, Huanggu District, Shenyang City, Liaoning Province, People's Republic of China ~72: Heziyi Guo;Jiajia Yuan;Jiaming Wei;Jiayu Zhu;Lin Wu;Shujun Lang;Siyi Duan;Ziyi Yang~ 33:CN ~31:2024102467252 ~32:05/03/2024

2024/02769 ~ Complete ~54:METHOD FOR EVALUATING TOLERANCE RANGE OF STRUCTURAL COMPONENT BASED ON LENGTH MEASUREMENT ~71:SHANDONG INSTITUTE OF METROLOGY, East Qianfo Road, Lixia District, Jinan City, People's Republic of China;SHANDONG YOUTH UNIVERSITY OF POLITICAL SCIENCE, Jingshi East Road, Licheng District, Jinan City, People's Republic of China ~72: LI, Shuo;SHI, Yang~

2024/02773 ~ Complete ~54:DEVICE AND METHOD FOR SYNTHESIZING STANNOUS OCTOATE ~71:ZHEJIANG HONGHAO TECHNOLOGY CO., LTD., Shangjiang block, Suichang County Industrial Park, People's Republic of China ~72: BAO, Zhiquan;CHEN, Xianmei;WANG, Ke;WANG, Wei;WU, Changwen;YU, Bainiu~

2024/02781 ~ Complete ~54:KNITTED FABRIC WITH TASSEL STRUCTURE AND KNITTING METHOD ~71:INNER MONGOLIA Kingdeer Cashmere Company Limited, South of Donghe Bridge, Bayantala Street, Donghe District, Baotou City, Inner Mongolia Autonomous Region, People's Republic of China ~72: Hui DING;Xinquan WANG;Yuyan WANG~ 33:CN ~31:2023113380648 ~32:16/10/2023

2024/02790 ~ Complete ~54:COMPLEMENT FACTOR B (CFB) IRNA COMPOSITIONS AND METHODS OF USE THEREOF ~71:ALNYLAM PHARMACEUTICALS, INC., 675 West Kendall Street, Henri A. Termeer Square, Cambridge, Massachusetts, 02142, United States of America ~72: ADAM CASTORENO;ELANE FISHILEVICH;JAMES D MCININCH;KRISTINA YUCIUS;MARK K SCHLEGEL~ 33:US ~31:63/273,215 ~32:29/10/2021

2024/02786 ~ Complete ~54:ORAL FORMULATION OF A PYRIDINONE DERIVATE AND USE THEREOF IN PROPHYLAXIS AND/OR TREATMENT OF INTESTINAL FIBROSIS ~71:DR. FALK PHARMA GMBH,

Leinenweberstr. 5 79108 Freiburg, Germany ~72: BERNHARD TEWES;ROLAND GREINWALD;RUDOLF WILHELM~ 33:EP ~31:PCT/EP2021/079584 ~32:25/10/2021

2024/02796 ~ Complete ~54:PHARMACEUTICAL COMPOSITION AND KIT COMPRISING AN IMMUNOMODULATORY SUBSTANCE FOR TREATING DISEASES ~71:ellennbe GmbH, Stallauer-Berg-Weg 11, BAD HEILBRUNN 83670, GERMANY, Germany ~72: NEUMANN, Lydia Ellen~ 33:EP ~31:21204596.7 ~32:25/10/2021;33:IB ~31:2022/079311 ~32:20/10/2022;33:IB ~31:2022/079313 ~32:20/10/2022;33:IB ~31:2022/079314 ~32:20/10/2022;33:IB ~31:2022/079315 ~32:20/10/2022;33:IB ~31:2022/079316 ~32:20/10/2022;33:IB ~31:2022/079317 ~32:20/10/2022;33:IB ~31:2022/079318 ~32:20/10/2022;33:IB ~31:2022/079319 ~32:20/10/2022;33:IB ~31:2022/079320 ~32:20/10/2022;33:IB ~31:2022/079321 ~32:20/10/2022;33:IB ~31:2022/079322 ~32:20/10/2022;33:IB ~31:2022/079323 ~32:20/10/2022;33:IB ~31:2022/079324 ~32:20/10/2022;33:IB ~31:2022/079325 ~32:20/10/2022;33:IB ~31:2022/079326 ~32:20/10/2022

2024/02758 ~ Complete ~54:PRODUCT FOR ANALYZING DIVERSITY IN BREAST MILK FLORA OF SYPHILIS-INFECTED PUERPERAE AND INTESTINAL FLORA OF NEWBORNS ~71:Changzhou Maternal And Child Health Care Hospital, No.16 Dingxiang Road, Changzhou City, Jiangsu Province, 213000, People's Republic of China ~72: CHEN Kejin;HE Beibei;HU Guoyun;LI Kai;WANG Xiao~

2024/02760 ~ Complete ~54:TRADITIONAL CHINESE MEDICINE COMPOSITE HAVING HEALTH CARE FUNCTION, AND PREPARATION METHOD AND APPLICATION THEREOF ~71:MENG, Xia, West Room, 2nd Floor, Unit 2, Building 3, Daily News Community, Intersection of Jiqu Road and Jinsan Road, Lanshan District, Linyi City, Shandong Province, 276000, People's Republic of China ~72: MENG, Xia;XIE, Mengchen;XIE, Wenquan~

2024/02765 ~ Complete ~54:CONCRETE WALL STRUCTURES ~71:PRINSLOO, Wessel Frans, 27 Erica Way, Durbanville Hills, Cape Town 7550, SOUTH AFRICA, South Africa;TOPFLOOR CONCRETE PROPRIETARY LIMITED, Cnr. Fabriek & Oop Street, Bellville South, Cape Town 7532, SOUTH AFRICA, South Africa ~72: PRINSLOO, Wessel Frans~ 33:ZA ~31:2023/04249 ~32:11/04/2023

2024/02767 ~ Complete ~54:LACTOBACILLUS PLANTARUM AND ITS APPLICATION ~71:Gansu Agricultural University, No. 1 Yingmen village, Anning District, Lanzhou, Gansu Province, 730070, People's Republic of China ~72: Chen Xuhui;Guo Huiyuan;Shi Chengrui;Wang Pengjie;Wang Ying;Wen Pengcheng;Wu Shifang;Yang Xiaoli;Zhang Hao;Zhang Weibing~ 33:CN ~31:202310385975.X ~32:12/04/2023

2024/02772 ~ Complete ~54:DEVICE FOR TREATING HEAVY METAL WASTE LIQUID ~71:ZHEJIANG SUICHANG HUIJIN NON-FERROUS METALS CO., LTD., Mao Tian Block, Suichang County Industrial Park, Lishui, People's Republic of China ~72: CAO, Haizhou;CAO, Zhentao;LI, Huajie;LIN, Hui;LIN, Jiajia;SHI, Zuofan;SHI, liuqin;SU, Wenya;WAN, Meng;WANG, Jiangxu;WANG, Shubo;YANG, Zhiwei;ZHAO, Hanxiang;ZHOU, Pin;ZHOU, Quanfa~

2024/02780 ~ Complete ~54:FLEXIBLE TCI STATE INDICATION UNDER UNIFIED TCI FRAMEWORK ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: DEGHEL, Matha;LADDU, Keeth, Saliya, Jayasinghe~ 33:US ~31:63/244,582 ~32:15/09/2021

2024/02785 ~ Complete ~54:EXTRA-HEPATIC DELIVERY IRNA COMPOSITIONS AND METHODS OF USE THEREOF ~71:ALNYLAM PHARMACEUTICALS, INC., 675 West Kendall Street, Henri A. Termeer Square, Cambridge, Massachusetts, 02142, United States of America ~72: ALEXANDER KEL'IN;ELENA CASTELLANOS-RIZALDOS;IVAN ZLATEV;JAYAPRAKASH K NAIR;JUSTIN PIERSON;KARYN SCHMIDT;KEVIN DOOLEY;LUCAS D BONDURANT;MARTIN A MAIER;MASAAKI NAKATA;VASANT R JADHAV;YESSEINIA ANGLERO-RODRIGUEZ~ 33:US ~31:63/255,984 ~32:15/10/2021

2024/02791 ~ Complete ~54:SUBSTITUTED HYDROXYMETHYL PYRROLIDINES AND MEDICAL USES THEREOF ~71:ATROGI AB, Tomtebodavägen 6 171 65 Solna, Sweden ~72: BENJAMIN PELCMAN;TORE BENGTSSON~ 33:GB ~31:2113588.4 ~32:23/09/2021

2024/02795 ~ Complete ~54:FUSED TETRACYCLIC QUINAZOLINE DERIVATIVES AS INHIBITORS OF ERBB2 ~71:Enliven Inc., 6200 Lookout Road, Floor 1, BOULDER 80301-3319 , CO, USA, United States of America ~72: KINTZ, Samuel;LYSSIKATOS, Joseph P.;REN, Li;SU, Qiang~ 33:IB ~31:2021/128110 ~32:02/11/2021;33:US ~31:63/417,219 ~32:18/10/2022

2024/02751 ~ Provisional ~54:SUBMERGED BATTERY ~71:STAR-ENERGY IP (PTY) LTD, 89 PIET RETIEF BOULEVARD, South Africa ~72: COETZEE, William Alexander;SMITH, Nevin Garth;VILJOEN, Adrian~

2024/02763 ~ Complete ~54:TRADITIONAL CHINESE MEDICINE COMPOSITION OF HOSTA FLOWER FOR TREATING RHINITIS ~71:Inner Mongolia Minzu University, 536 Huolinhe Street West, Tongliao City, Inner Mongolia, 028000, People's Republic of China ~72: LA Xinamujila;LI Huifang;TA Na;XU Yanhua~ 33:CN ~31:2023103936510 ~32:13/04/2023

2024/02770 ~ Complete ~54:CURING AGENT STORAGE DEVICE ~71:ZHEJIANG DOUBLE COLOR NEW MATERIAL CO., LTD., Longbanshan block, Cloud Peak Street Industrial Park, Suichang County, Lishui, People's Republic of China ~72: CHEN, Qiaohong;FENG, Jie;LI, Chongxin;ZHOU, Xiaowei~

2024/02775 ~ Complete ~54:PRODUCTION DEVICE FOR PREPARING STANNOUS OCTOATE ~71:ZHEJIANG HONGHAO TECHNOLOGY CO., LTD., Shangjiang block, Suichang County Industrial Park, People's Republic of China ~72: BAO, Zhiquan;CHEN, Xianmei;WANG, Ke;WANG, Wei;WU, Changwen;YU, Bainiu~

2024/02783 ~ Complete ~54:HOT ROLLED AND STEEL SHEET AND A METHOD OF MANUFACTURING THEREOF ~71:ARCELORMITTAL, 24-26, Boulevard d'Avranches, Luxembourg ~72: Atish KUMAR HATUI;Laura MARTINEZ TARANILLA;Laura MOLI SANCHEZ;Lode DUPREZ;Tom WATERSCHOOT~

2024/02789 ~ Complete ~54:CYCLOHEXYL BETA-HYDROXY ALKYL AMINES AND MEDICAL USES THEREOF ~71:ATROGI AB, Tomtebodavägen 6 171 65 Solna, Sweden ~72: BENJAMIN PELCMAN;TORE BENGTSSON~ 33:GB ~31:2113594.2 ~32:23/09/2021

2024/02793 ~ Complete ~54:FLEXIBLE PRODUCT SEPARATION AND RECOVERY ~71:LANZATECH, INC., 8045 Lamon Avenue, Suite 400, Skokie, Illinois, 60077, United States of America ~72: ALLAN HAIMING GAO;JOSS ANTON COOMBES;NICHOLAS BOURDAKOS;ROBERT JOHN CONRADO~ 33:US ~31:17/450,802 ~32:13/10/2021

2024/02799 ~ Complete ~54:PROCESS FOR TREATING PLANT AND/OR RAW FOOD MATERIAL ~71:NUB TECHNOLOGIES LTD, 2nd Floor Crown House, 37 High Street, East Grinstead, United Kingdom ~72: MARAIS, Pierre Guillaume~ 33:EP ~31:21202025.9 ~32:11/10/2021

2024/02752 ~ Provisional ~54:INTEGRATED GAMING AND SYMBIOTIC E-COMMERCE ECOSYSTEM ~71:VAN DER MERWE, ERVIN, 21 Vegkoppie Street, Dassierand, South Africa ~72: VAN DER MERWE, ERVIN~

2024/02817 ~ Complete ~54:BRIDGE PILE FOUNDATION EXCAVATION MUD SEPARATION AND PURIFICATION DEVICE ~71:CHINA RAILWAY SEVENTH GROUP GUANGZHOU ENGINEERING CO., LTD, No. 841-850, Building H6 and No. 801-820, Building H7, 39 Ruihe Road, Huangpu District, Guangzhou, People's Republic of China;XIANGTAN UNIVERSITY, Western suburb of Xiangtan City, People's Republic of China ~72: CHEN, Bin;HAO, Jianbo;HE, Tianci;KONG, Xiangquan;LI, Jianguo;LUO, Xiaoguang;PENG, Guangyi;PENG,

Lei;QIN, Hao;SHI, Jianxin;WANG, Lei;WANG, Yunlong;WEI, Chaoliang;WEI, Fujun;WU, Yang;XIAO, Chuanyu;XU, Ping;ZHANG, Geping;ZHAO, Xiaolu~ 33:CN ~31:202311214969.4 ~32:18/09/2023

2024/02749 ~ Provisional ~54:BATTERY MANAGEMENT ~71:LITHIUM BATTERIES SA (PTY) LTD, 54 Mimetes Road, Denver, South Africa ~72: VILJOEN, Bain Victor~

2024/02754 ~ Provisional ~54:BUDDY ~71:Kabelo Baloyi, 253 Waterbok Street, Ninapark, South Africa ~72: Kabelo Baloyi~

2024/02757 ~ Complete ~54:EXHAUST GAS PURIFICATION DEVICE  
~71:Jiangsu Academy of Environmental Industry and Technology Corp, No.211 Jiangdong Middle Road, Jianye District, Nanjing, Jiangsu, People's Republic of China ~72: Bing Du;Fei Chen;Fei Tao;Qihan Xia;Wei Hu~

2024/02761 ~ Complete ~54:PRECISE CONTROL APPARATUS AND METHOD FOR ELECTRIC CONTROL BRAKING OF LONG-FORMATION HEAVY HAUL TRAIN ~71:Lanzhou Jiaotong University, No.88, Anning West Road, Anning District, Lanzhou City, Gansu Province, 730070, People's Republic of China ~72: DING, Wangcai;LI, Binqiang;LI, Yong~ 33:CN ~31:202410209516.0 ~32:26/02/2024

- APPLIED ON 2024/04/11 -

2024/02826 ~ Complete ~54:EGFRVIII-TARGETED COMPOUNDS AND USES THEREOF ~71:FUSION PHARMACEUTICALS INC., 270 Longwood Road South, Hamilton, Ontario, L8P 0A6, Canada;NATIONAL RESEARCH COUNCIL OF CANADA, 1200 Montreal Road, Ottawa, Ontario, K1A 0R6, Canada ~72: ANNE MARCIL;CUNLE WU;IAN R DUFFY;JULIE METCALF;MARIA MORENO;MARIA JARAMILLO;NATALIE GRINSHTEIN;TRAIAN SULEA;WILLIAM LESLIE TURNBULL~ 33:CA ~31:PCT/CA2021/051360 ~32:29/09/2021

2024/02811 ~ Complete ~54:A BENDING AND TORSION PROPERTIES TEST DEVICE FOR VASCULAR STENT ~71:Taiyuan University of Technology, No.79 West Street Yingze, Wanbolin District, Taiyuan City, Shanxi Province, 030024, People's Republic of China ~72: Bangguo LI;Junxia LI;Meiwen AN;Mingyuan LIU;Qianning GAO;Qingli ZHENG;Weiyi CHEN;Yifan ZHAO;Zhihao XU;Zhiqiang LI;Zihao YANG~ 33:CN ~31:2024104172284 ~32:09/04/2024

2024/02837 ~ Complete ~54:HORTICULTURE TRAY SUPPORT SYSTEM ~71:Blackmore Company, Inc., 10800 Blackmore Ave., BELLEVILLE 48111, MI, USA, United States of America ~72: BLACKMORE JR., Fred N.~ 33:US ~31:17/502,811 ~32:15/10/2021

2024/02809 ~ Complete ~54:INNER SURFACE OF SELF-CLEANING SPRAYER TANK BASED ON LASER-INDUCED MICRO-NANO COMPOSITE STRUCTURE ~71:Northwest A & F University, Northwest A & F University, No.22 Xinong Road, Yangling, Shaanxi, People's Republic of China ~72: Chen xin;Fang liuxin;Lijiang;Zhang kaiyu~

2024/02812 ~ Complete ~54:METHOD FOR ELIMINATING INFECTIOUS MYONECROSIS VIRUS OF SHRIMP IN AQUACULTURE WATER ~71:Hainan Tropical Ocean University, No. 1, Yucai Road, Jiyang District, Sanya City, Hainan Province, 572000, People's Republic of China ~72: Mingshu Yang;Qingli Zhang~

2024/02819 ~ Complete ~54:SECURE AND VERIFIABLE TRACKING OF AGRICULTURAL PRODUCTS  
~71:AMVAC HONG KONG LIMITED, 11/F., Unit B, Winbase Centre 208 Queen's Road Central Sheung Wan, People's Republic of China ~72: JAMES, Kent W.;RICE, Richard L.;TROGELE, Ulrich G.~ 33:US ~31:63/245,184 ~32:16/09/2021

2024/02822 ~ Complete ~54:NETWORK NODES AND METHODS THEREIN FOR NOTIFICATION EVENT ENHANCEMENT ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83, Sweden ~72: LIANG, Tianmei;XIE, Jinyang;XU, Wenliang~ 33:CN ~31:PCT/CN2021/121817 ~32:29/09/2021

2024/02828 ~ Complete ~54:HANDOVER SCHEMES FOR USER AGGREGATION SCENARIO IN WIRELESS COMMUNICATIONS ~71:ZTE CORPORATION, ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan, Shenzhen, Guangdong, 518057, People's Republic of China ~72: BO DAI;JIE TAN;LI NIU;TING LU;XIUBIN SHA~

2024/02832 ~ Complete ~54:LATENT ENERGY AND WATER HARVESTING SYSTEM ~71:MONTANA TECHNOLOGIES LLC, P.O. Box 166 34361 Innovation Drive, Ronan, Montana, 59864, United States of America ~72: DANIEL ALBERT GABIG;HECTOR RUIZ;JAMES DOUGLAS JORE;JEROMY W J JENKS;MATTHEW BERNARD JORE;MICHAEL ALAN KVAM;TRISTRAM CHARLES RAGLAN BRACEY~ 33:US ~31:63/251,078 ~32:01/10/2021

2024/02838 ~ Complete ~54:METHOD FOR PRODUCING A POTASSIUM-CONTAINING FERTILIZER WITH A LOW CONTENT OF WATER-INSOLUBLE MATERIAL ~71:YARA INTERNATIONAL ASA, Drammensveien 131 0277, Norway ~72: CAMARGO HORTA DE MACEDO, Alexandre;WIERINGA, Guido~ 33:EP ~31:21202918.5 ~32:15/10/2021

2024/02805 ~ Complete ~54:SPRAY DEODORIZING DEVICE FOR PIGSTY ~71:ANCHEE(SHANDONG) ACADEMY OF ANIMAL NUTRITION Co. LTD, Room 02, Building 5, Block 5, Yinfeng Biological City, No.1177 Chunlan Road, High-tech Zone, Jinan City, Shandong Province, People's Republic of China;Institute of Animal Science and Veterinary Medicine, Shandong Academy of Agricultural Sciences, No.23788 Industrial North Road, Licheng District, Jinan City, Shandong Province, People's Republic of China ~72: DU Yushi;GUO Jianfeng;LIN Haichao;LIU Xiaohui;WANG Yanping;ZHAO Xueyan~

2024/02800 ~ Provisional ~54:WATER METER BOX FOR UTILITY METER ~71:PLASTINTERNATIONAL (PTY) LIMITED, 29 Bell Street, Meadowdale, South Africa ~72: GREGORY KENNETH WITTSTOCK~

2024/02823 ~ Complete ~54:IMPROVING PERFORMANCE FOR CELLULAR COMMUNICATION WITH REDUCED BANDWIDTH ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: HAKOLA, Sami-Jukka;HOOLI, Kari, Juhani;KAIKKONEN, Jorma, Johannes;KINNUNEN, Pasi, Eino, Tapio;TIIROLA, Esa, Tapani~

2024/02836 ~ Complete ~54:NOVEL TRIMETAZIDINE SALTS ~71:Les Laboratoires Servier, 35 rue de Verdun, SURESNES CEDEX 92284, FRANCE, France ~72: MAHIEUX, Julien;VILLARD, Frédéric~ 33:EP ~31:21306465.2 ~32:20/10/2021

2024/02813 ~ Complete ~54:DEVELOPMENT OF CURCUMIN NANO GEL FOR SKIN REJUVENATION AND ANTI-AGING ~71:Dr. Harita Ramchandra Desai, Assistant Professor, Bombay College of Pharmacy, Mathuradas Colony, Kalina, Santacruz East Mumbai, Maharashtra, 400098, India;Dr. Kiran Chandrakant Mahajan, Professor, Shri Gajanan Maharaj Shikshan Prasarak Mandal Sanchalit, Sharadchandra Pawar College of Pharmacy, Dumburwadi (Otur), Post- Khamundi, Nagar- Kalyan High way No- 222, Tal- Junnar, Dist- Pune, Maharashtra, 410504, India;Mr. Bhushan Shashikant Bhale, Assistant Professor, Bombay College of Pharmacy, Mathuradas Colony, Kalina, Santacruz East Mumbai, Maharashtra, 400098, India;Mr. Nitin Vilas Kokare, Assistant Professor, Appasaheb birnale college of Pharmacy, Sangli, Maharashtra, 416416, India;Mr. Parth Ramesh Gharat, Research Scholar, Progressive Education Society's, Modern college of Pharmacy, Yamuna Nagar, Nigdi, Pune, Maharashtra, 411044, India;Ms. Akanksha Rajendra Kolhe, Research Scholar, Bombay College of Pharmacy, Mathuradas Colony, Kalina, Santacruz East Mumbai, Maharashtra, 400098, India;Ms. Neha Omprakash Raghuvanshi, Assistant Professor, Bombay College of Pharmacy, Mathuradas Colony, Kalina, Santacruz East



Mumbai, Maharashtra, 400098, India;Ms. Shashikala Raosaheb Bulgunde, Assistant Professor, Gahlot institute of Pharmacy, Koparkhairane, Navi Mumbai, Thane, Maharashtra, 400709, India;Prof. Poonam Sunil Aher, Assistant Professor, Sanjivani College of Pharmaceutical Education And Research, Kopargaon, Sahajanand Nagar, Shiganapur, Ahmednagar, Maharashtra, 423601, India;Prof. Supriya Sharad Bhosale, Assistant Professor, Vidya Niketan College of Pharmacy, A/P- Khorochi, Tal- Indapur, Dist- Pune, Maharashtra, 413114, India ~72: Dr. Harita Ramchandra Desai;Dr. Kiran Chandrakant Mahajan;Mr. Bhushan Shashikant Bhale;Mr. Nitin Vilas Kokare;Mr. Parth Ramesh Gharat;Ms. Akanksha Rajendra Kolhe;Ms. Neha Omprakash Raghuvanshi;Ms. Shashikala Raosaheb Bulgunde;Prof. Poonam Sunil Aher;Prof. Supriya Sharad Bhosale~

2024/02810 ~ Complete ~54: PANIC TRANSCEIVER SYSTEM FOR A SAFE ~71: DE WITT, Sarel Jacobus, Verdi St. 594, Constantia Park, South Africa; VERMEULEN, Vincent Robert, Plot 244 Elandshoek, South Africa ~72: DE WITT, Sarel Jacobus; VERMEULEN, Vincent Robert~

2024/02814 ~ Complete ~54: VALVE CONNECTOR FOR MEDICAL LINES ~71: Industrie Borla S.p.A., Via G. Di Vittorio, 7 bis, MONCALIERI (TORINO) I-10024, ITALY, Italy ~72: GUALA, Gianni~ 33: IT ~31: 102023000006996 ~32: 12/04/2023

2024/02816 ~ Complete ~54: ARTEMISIA CARVIFOLIA RESIDUE FERMENTED FEED ADDITIVE FOR IMPROVING PRODUCTION PERFORMANCE OF LAYING HENS AND PREPARATION METHOD THEREOF ~71: NORTHEAST AGRICULTURAL UNIVERSITY, NO.600 CHANGJIANG ROAD, XIANGFANG DISTRICT, People's Republic of China ~72: FENG, Yanzhong; HE, Fumeng; KONG, Xiangfeng; LI, Fenglan; WANG, Xue; ZHANG, Minghui~

2024/02831 ~ Complete ~54: PREKALLIKREIN-MODULATING COMPOSITIONS AND METHODS OF USE THEREOF ~71: ADARX PHARMACEUTICALS, INC., 5871 Oberlin Drive Suite 200 San Diego, California 92121, United States of America ~72: KIMBERLY FULTZ; RUI ZHU; SEAN STUDER; ZHEN LI; ZHIQING (JOEL) ZHOU~ 33: US ~31: 63/251,571 ~32: 01/10/2021; 33: US ~31: 63/252,554 ~32: 05/10/2021; 33: US ~31: 63/270,504 ~32: 21/10/2021; 33: US ~31: 63/283,175 ~32: 24/11/2021; 33: US ~31: 63/287,969 ~32: 09/12/2021

2024/02821 ~ Complete ~54: SYSTEM AND METHOD FOR PRODUCING VIDEO STREAM ~71: LIVEARENA TECHNOLOGIES AB, Box 11208, Sweden ~72: BJÖRKMAN, Andreas; DANIELSON, Magnus; VAN DEN HAAK, Paul~ 33: SE ~31: 2151267-8 ~32: 15/10/2021

2024/02830 ~ Complete ~54: CAPSID VARIANTS AND METHODS OF USING THE SAME ~71: DYN0 THERAPEUTICS, INC., 343 Arsenal Street, Suite 101 Watertown, Massachusetts 02472, United States of America ~72: INA CHEN; JEFF GEROLD; JERRAH HOLTH; KATHY S LIN; SAMUEL WOLOCK; SYLVAIN LAPAN~ 33: US ~31: 63/262,330 ~32: 08/10/2021; 33: US ~31: 63/262,341 ~32: 10/10/2021

2024/02803 ~ Provisional ~54: A MEDICINAL INHALATION SYSTEM ~71: Barend Daniel DE BEER, 110 RIVER ROAD, MANTERVREDE AH, South Africa ~72: Barend Daniel DE BEER~

2024/02808 ~ Complete ~54: INFRARED RADIATION MONITORING AND EARLY WARNING DEVICE AND AN EARLY WARNING METHOD FOR THE DAMAGE EVOLUTION PROCESS OF GASSY COAL ~71: Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467000, People's Republic of China ~72: Chaohan Li; Dongdong Liang; Fangchao Lu; Haochang Wang; Jing Liu; Jingwei Du; Liguang Liu; Sheng Liu; Shun Wang; Wenfei Wang; Xun Liu; Yachao Si; Yiju Tang; Yong'an Wang; Zhe Zhang~

2024/02824 ~ Complete ~54: PREPARATION METHOD AND APPLICATION OF SESQUITERPENES AND THEIR DIMERS ~71: North China University of Science and Technology, #21 Bohai Road, Caofeidian Xincheng,

Tangshan, People's Republic of China ~72: Liu Chunyan;Sun Liangdan;Wang Xiaoxia;Zhuang Pengyu~ 33:CN ~31:202211682724.X ~32:27/12/2022

2024/02827 ~ Complete ~54:BRANDY REPLICAS ~71:AVA FOOD LABS, INC., 2565 3rd st., Suite 318, San Francisco, California, 94107, United States of America ~72: DANIEL ASSAD SAAD;LINDSAY LORETTA SMITH;LUCAS BAKER;MARDONN CARL CHUA;SAMUEL RYO~ 33:US ~31:63/249,462 ~32:28/09/2021

2024/02834 ~ Complete ~54:GELMA POLYMER COMPOSITIONS AND USES THEREOF ~71:GelMEDIX, Inc., c/o LabCentral, 238 Main St, Fifth Floor, CAMBRIDGE 02142, MA, USA, United States of America ~72: COTLER, Max;DRISCOLL, Arthur;HUANG, Eric;VERA-GONZALEZ, Noel~ 33:US ~31:63/244,615 ~32:15/09/2021

2024/02833 ~ Complete ~54:THERAPEUTIC RNA FOR LUNG CANCER ~71:BIONTECH SE, An der Goldgrube 12, 55131, Mainz, Germany;TRON -TRANSLATIONALE ONKOLOGIE AN DER UNIVERSITÄTSMEDIZIN DER JOHANNES GUTENBERG-UNIVERSITÄT MAINZ GEMEINNÜTZIGE GMBH, Freiligrathstr. 12, 55131, Mainz, Germany ~72: CARINA WALTER;DAVID WEBER;DIANA BAREA ROLDÁN;LENA MAREEN KRANZ;MARTIN SUCHAN;MELANIE HEIN;RUPRECHT KUNER;UGUR SAHIN;VERENA KISSLER~ 33:EP ~31:PCT/EP2021/078022 ~32:11/10/2021;33:EP ~31:PCT/EP2022/050135 ~32:05/01/2022

2024/02802 ~ Provisional ~54:SHAFT GROUNDING DEVICE ~71:TIMM, Troy Lance, 44 Goodman Street, Rynfield, South Africa ~72: TIMM, Troy Lance~

2024/02807 ~ Complete ~54:METHOD FOR THREE-DIMENSIONAL INDUSTRIALIZED CIRCULAR WATER AQUACULTURE OF MONOPTERUS ALBUS ZUIEW ~71:Shanghai Academy of Agricultural Sciences, No.1000, Jinqi Road, Fengxian District, Shanghai, 201403, People's Republic of China;Shanghai Ying Tun Agricultural Technology Company, Limited, Room 405, Building 1, Lane 461, Wuyi Road, Shanghai, 200050, People's Republic of China ~72: Hang YANG;Quan YUAN;Weiwei HUANG;Weiwei LV;Wenzong ZHOU;Xiao WANG;Yichen QIU~

2024/02835 ~ Complete ~54:AAV CAPSID VARIANTS AND USES THEREOF ~71:Voyager Therapeutics, Inc., 75 Hayden Ave, LEXINGTON 02421, MA, USA, United States of America ~72: HOFFMAN, Brett;KNOLL, Elisabeth;LAKS, Dan Richard;LI, Jiangyu;MOYER, Tyler Christopher;NONNENMACHER, Mathieu Emmanuel;SHU, Yanqun~ 33:US ~31:63/274,806 ~32:02/11/2021;33:US ~31:63/339,711 ~32:09/05/2022

2024/02815 ~ Complete ~54:A JET IMPINGEMENT TECHNIQUE-BASED SOLAR-THERMAL AIR COLLECTOR SYSTEM FOR ENERGY AND EXERGY ANALYSIS AND A METHOD THEREOF ~71:Dr. Agnimitra Biswas, National Institute of Technology, Silchar, Assam, 788010, India;Dr. Biplab Das, National Institute of Technology, Silchar, Assam, 788010, India;National Institute of Technology Silchar, National Institute of Technology, Silchar, Assam, 788010, India;Supreme Das, National Institute of Technology, Silchar, Assam, 788010, India ~72: Dr. Agnimitra Biswas;Dr. Biplab Das;Supreme Das~

2024/02818 ~ Complete ~54:SYSTEM AND METHOD FOR PRODUCING A SHARED VIDEO STREAM ~71:LIVEARENA TECHNOLOGIES AB, Box 11208, Sweden ~72: BJÖRKMAN, Andreas;DANIELSON, Magnus;VAN DEN HAAK, Paul~ 33:SE ~31:2151267-8 ~32:15/10/2021

2024/02820 ~ Complete ~54:FRET ENZYMATIC SUBSTRATE AND USES THEREOF IN LUNG CANCER ~71:URTESTE S.A., Ul. Starodworska 1, Poland ~72: GRUBA, Natalia;LESNER, Adam~ 33:PL ~31:P.439760 ~32:07/12/2021

2024/02825 ~ Complete ~54:DEVICE AND SYSTEM FOR MONITORING THE CONDITIONS OF A THERMAL FLUID, AND METHOD FOR SAID MONITORING ~71:RIOGLASS SOLAR SCH, SL, PAMA - Parque de Actividades Mediambientales de Andalucia Carretera Aznalcollar - Gerena km 1 41870 Aznalcollar, Sevilla, Spain

~72: ANA ISABEL MORALES GARCÍA;AUGUSTO MACCARI;EVARISTO MANUEL ESQUINAS NAVAS;JUAN PABLO NÚÑEZ;ÁLVARO MUÑOZ~ 33:EP ~31:21382821.3 ~32:13/09/2021

2024/02829 ~ Complete ~54:METHOD FOR DETECTING OBSTACLES ~71:SAFRAN ELECTRONICS & DEFENSE, 2, boulevard du Général Martial Valin, 75015 Paris, France ~72: JOËL BUDIN;THOMAS CLEON~ 33:FR ~31:FR2110221 ~32:28/09/2021

2024/02801 ~ Provisional ~54:SPARE WHEEL COVER ~71:OCIN PRODUCTS, S.L, Poligono Industrial Enchinlagar Del Rullo, No. 33, Vilamarxant, Spain ~72: BURG, Niel;HICKLEY, Nicolaas Hendrik~

2024/02804 ~ Provisional ~54:A DEBT FINANCE COMPUTING SYSTEM AND DEVICE ~71:BAYANDA XOLISA MEHLALA, NO 30 THE BOULDERS SUNNYRIDGE, South Africa ~72: BAYANDA XOLISA MEHLALA~

2024/02806 ~ Complete ~54:WIRE MESH SUPPORT ~71:MSP MINE SUPPORT PRODUCTS (PTY) LTD, 108 Houtkop Rd, Duncanville, South Africa ~72: NISSEN, Christian Engelstoft~ 33:ZA ~31:2023/08550 ~32:06/09/2023

- APPLIED ON 2024/04/12 -

2024/02839 ~ Provisional ~54:TENDER AND BIDDING RESPONSE BUSINESS PROCESS MANAGEMENT SOLUTION ~71:Neurina van Graan, 13 Clydebank Crescent, South Africa ~72: Neurina van Graan~

2024/02845 ~ Complete ~54:FUNCTIONALIZED CARBON NANOTUBE/POLYURETHANE COMPOSITE MATERIAL AND PREPARATION METHOD THEREFOR ~71:Beijing Institute of Technology, No 5, Zhongguancun South Street, Haidian District, Beijing City, 100081, People's Republic of China ~72: Hao Jiang;Meishuai Zou;Xiaodong Li;Xiaoxuan Wang;Xing Su;Yi Yang~ 33:CN ~31:202310414090.8 ~32:18/04/2023

2024/02878 ~ Complete ~54:RAS INHIBITORS ~71:REVOLUTION MEDICINES, INC., 700 Saginaw Drive, Redwood City, California, 94063, United States of America ~72: ADRIAN L GILL;ANDREAS BUCKL;ANNE V EDWARDS;CHRISTOPHER SEMKO;ELENA S KOLTUN;G. LESLIE BURNETT;JAMES CREGG;JOHN E KNOX;YANG LIU~ 33:US ~31:63/254,013 ~32:08/10/2021

2024/02871 ~ Complete ~54:AQUEOUS SUSPENSION AGROCHEMICAL COMPOSITION, METHOD FOR PREVENTING CROP DAMAGE, AND USEFUL PLANT SEEDS ~71:KUMIAI CHEMICAL INDUSTRY CO., LTD., 4-26, Ikenohata 1-chome Taito-ku, Tokyo, 1108782, Japan ~72: NARUKI AMANO~ 33:JP ~31:2021-177426 ~32:29/10/2021

2024/02874 ~ Complete ~54:ASSOCIATION OF A FAECALIBACTERIUM PRAUSNITZII STRAIN AND ANTI-PD-1, ANTI-PD-L1 OR ANTI-CTLA-4 ANTIBODIES FOR THE TREATMENT OF CANCER ~71:EXELIOM BIOSCIENCES, 67 rue des Godrans, 21000, Dijon, France ~72: BENJAMIN HADIDA;HARRY SOKOL;PAULINE RUFFIÉ~ 33:EP ~31:21306448.8 ~32:15/10/2021

2024/02843 ~ Complete ~54:PROGRESSIVE SMOKING CESSATION ASSIST DEVICE ~71:The Second People's Hospital of Lishui, 69 Beihuan Road, Liandu District, Lishui City, Zhejiang Province, 323000, People's Republic of China ~72: Bai Lu;Kang Yanbao;Li Xuhong;Ma Sanya;Min Guoqing;Piao Quanjun;Song Xufeng;Wang Yizhu;Xu Wenqiang;Yue Jing;Zhang Yubo;Zhong Jian~

2024/02848 ~ Complete ~54:SHIP DRAFT MEASUREMENT DEVICE ~71:ZHEJIANG INTERNATIONAL MARITIME COLLEGE, No. 268, Haitian Avenue, Lincheng New District, Zhoushan City, People's Republic of China ~72: JIA, Panpan;LIU, Zailiang;SUN, Qimeng~

2024/02856 ~ Complete ~54:REGULATION VIOLATION BEHAVIOR IDENTIFICATION METHOD AND INTELLIGENT ANTI-REGULATION VIOLATION SENSOR SYSTEM ~71:SHANXI QUAN'AN NEW TECHNOLOGY DEVELOPMENT CO.,LTD, 1-4-4, No.79 WENMING NANJIE, People's Republic of China ~72: GUO, Chunping;GUO, Xiaopeng~ 33:CN ~31:202111213708.1 ~32:19/10/2021

2024/02847 ~ Complete ~54:METHOD AND SYSTEM FOR MONITORING DRIVER WORKLOAD BASED ON ROAD MAINTENANCE ~71:FUZHOU UNIVERSITY, 2 Wulong Jiangbei Avenue, Fuzhou University Town, Fuzhou City, People's Republic of China ~72: LI, Congying;YANG, Yanqun~

2024/02841 ~ Complete ~54:HPLC-MS/MS METHOD FOR DETERMINING GLYPHOSATE, GLUFOSINATE AMMONIUM, AND METABOLITES THEREOF ~71:Zhejiang Citrus Research Institute, No.1 Yushanping, Toutuo Town, Huangyan District, Taizhou City, Zhejiang Province, 318020, People's Republic of China ~72: FENG, Xianju;LIN, Mei;WANG, Tianyu;WANG, Yue;WU, Shaohui;YAO, Zhoulun;ZHANG, Weiqing~

2024/02879 ~ Complete ~54:METHODS FOR VECTOR-BASED TARGETING OF THE HUMAN CENTRAL THALAMUS TO GUIDE DEEP BRAIN STIMULATION AND DEVICES THEREFOR ~71:CORNELL UNIVERSITY, Center for Technology Licensing ("CTL") at Cornell University, 395 Pine Tree Road, Suite 310, Ithaca, New York, 14850, United States of America;THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY, Office of the General Counsel Building 170, Third Floor, Main Quad, PO Box 20386 Stanford, California, 94305-2038, United States of America;THE UNIVERSITY OF UTAH, 615 Arapen Drive, Suite 310, Salt Lake City, Utah, 84108, United States of America ~72: ANDREW JANSON;BRIAN RUTT;CHRISTOPHER BUTSON;EUN YOUNG CHOI;JAIMIE HENDERSON;JASON SU;JONATHAN BAKER;KYLE O'SULLIVAN;MATTHEW RADOVAN;NICHOLAS SCHIFF~ 33:US ~31:63/244,589 ~32:15/09/2021

2024/02846 ~ Complete ~54:METHOD AND SYSTEM FOR DETERMINING STANDARD PREPOSITIVE DISTANCE OF WARNING SIGN IN OPERATION AREA ~71:FUZHOU UNIVERSITY, 2 Wulong Jiangbei Avenue, Fuzhou University Town, Fuzhou City, People's Republic of China ~72: LI, Congying;YANG, Yanqun~

2024/02858 ~ Complete ~54:ANTENNA STRUCTURE AND MANUFACTURING METHOD THEREFOR ~71:ZTE CORPORATION, ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, People's Republic of China ~72: CHEN, Jie;WANG, Feng;XU, Weiming;YANG, Weiwei~ 33:CN ~31:202111066841.9 ~32:13/09/2021

2024/02862 ~ Complete ~54:QUINOLINE COMPOUNDS AS INHIBITORS OF KRAS ~71:Incyte Corporation, 1801 Augustine Cut-Off, WILMINGTON 19803, DE, USA, United States of America ~72: CARLSEN, Peter;HOANG, Gia;HU, Bin;LI, Gencheng;MCCAMMANT, Matthew;POLAM, Padmaja;POLICARPO, Rocco;QI, Chao;ROACH, Jeremy;SHVARTSBART, Artem;SOKOLSKY, Alexander;SUSICK, Robert;WANG, Xiaozhao;YAO, Wenqing;YE, Qinda;YIN, Haolin;ZHANG, Fenglei;ZHAO, Le;ZHU, Wenyu~ 33:US ~31:63/255,610 ~32:14/10/2021;33:US ~31:63/279,464 ~32:15/11/2021;33:US ~31:63/363,270 ~32:20/04/2022;33:US ~31:63/368,563 ~32:15/07/2022

2024/02867 ~ Complete ~54:MESOTHELIN BINDING PROTEINS AND USES THEREOF ~71:TeneoBio, Inc., One Amgen Center Drive, THOUSAND OAKS 91320, CA, USA, United States of America ~72: ALLEN, Nicole;HARRIS, Katherine;MALIK CHAUDHRY, Harbani Kaur~ 33:US ~31:63/255,887 ~32:14/10/2021;33:US ~31:63/255,891 ~32:14/10/2021;33:US ~31:63/303,422 ~32:26/01/2022;33:US ~31:63/392,569 ~32:27/07/2022

2024/02875 ~ Complete ~54:ENGINEERED TERMINAL DEOXYNUCLEOTIDYL TRANSFERASE VARIANTS ~71:CODEXIS, INC., 200 Penobscot Drive, Redwood City, California, 94063, United States of America ~72: ANDERS MATTHEW KNIGHT;CHARLENE CHING;JONATHAN VROOM;MATHEW G MILLER;MELISSA ANN MAYO;MIKAYLA JIANGHONGXIA KRAWCZYK;NIUSHA MAHMOODI;STEPHANIE MARIE FORGET~ 33:US ~31:63/256,353 ~32:15/10/2021;33:US ~31:63/329,777 ~32:11/04/2022

2024/02876 ~ Complete ~54:NUCLEOTIDES AND OLIGOSACCHARIDES FOR USE AS FOOD COMPOSITION  
~71:MARS, INCORPORATED, 6885 Elm Street, Mclean, Virginia, 22101, United States of America ~72: WILLY  
JOLY~ 33:EP ~31:21204186.7 ~32:22/10/2021

2024/02870 ~ Complete ~54:AQUEOUS SUSPENSION AGROCHEMICAL COMPOSITION, DISEASE  
CONTROL METHOD, AND USEFUL PLANT SEEDS ~71:KUMIAI CHEMICAL INDUSTRY CO., LTD., 4-26,  
Ikenohata 1-chome Taito-ku, Tokyo, 1108782, Japan ~72: NARUKI AMANO~ 33:JP ~31:2021-177425  
~32:29/10/2021

2024/02880 ~ Complete ~54:WELL TYPE STRUCTURE CONNECTING NEAR END OF SINGLE WELL SITE TO  
COAL SEAM GAS AND METHOD FOR DRILLING THE SAME ~71:HUAINAN MINING (GROUP) CO., LTD, No.1  
Dongshan Middle Road, Huainan, People's Republic of China;PING'AN COAL MINE GAS CONTROL NATIONAL  
ENGINEERING RESEARCH CENTER CO., LTD, No.6 Building, Smart Valley, Huainan High-tech Zone, Huainan,  
People's Republic of China ~72: CHEN, Benliang;FENG, Anxiang;JIANG, Ziliang;LI, Ping;NIU, Ben;WANG,  
Chuanbing;YANG, Wei;ZHOU, Tao~

2024/02849 ~ Complete ~54:LOW CAPITAL AND OPERATIONAL COST E-COMMERCE LOGISTICS SYSTEM  
~71:PARACHUTE LOGISTICS, LLC, 1395 Brickell Avenue, Suite 800, Miami, Florida 33131, United States of  
America ~72: FERNANDO BENJAMIN FISCHMANN~ 33:US ~31:63/074,842 ~32:04/09/2020;33:US  
~31:63/116,439 ~32:20/11/2020;33:US ~31:63/222,497 ~32:16/07/2021

2024/02852 ~ Complete ~54:A PREPARATION METHOD OF ELECTROMAGNETIC SHIELDING COMPOSITE  
FIBER MEMBRANE ~71:ANHUI POLYTECHNIC UNIVERSITY, Beijing Middle Road, Wuhu City, People's  
Republic of China ~72: LI, Bingbing;NIE, Wenqi;SUN, Yanyan;ZHOU, Wanyu~

2024/02857 ~ Complete ~54:ANTIBODIES BINDING CLDN18.2 AND USES THEREOF ~71:BIOSION INC., 5th  
Floor, Building D, 3-1 Zhongdan Unit, United States of America ~72: CHEN, Mingjiu;PENG, Zeyu~ 33:CN  
~31:PCT/CN2021/124767 ~32:19/10/2021

2024/02861 ~ Complete ~54:PREPARATION METHOD OF BACILLUS AMYLOLIQUEFACIENS POWDER  
~71:NORTHEAST AGRICULTURAL UNIVERSITY, NO.600 CHANGJIANG ROAD, XIANGFANG DISTRICT,  
People's Republic of China ~72: HE, Fumeng;LI, Fenglan;LIU, Dan;PANG, Wenyuan;WANG, Xue;ZHANG, Ying~

2024/02840 ~ Complete ~54:BRIDGE BEAM BODY INSPECTION DEVICE ~71:Hunan City University, NO.518  
Yingbin East Road, Heshan District, Yiyang City, Hunan Province, People's Republic of China ~72: ZHANG Kai~

2024/02844 ~ Complete ~54:SYSTEM AND DEVICE FOR STORING ELECTRIC ENERGY AND HIGH-  
TEMPERATURE FLUE GAS WASTE HEAT ~71:Anhui Main Energy Technology CO.,LTD, Room 696-2, Building  
6 F, Building A3A4, Zhongan Chuanggu Science Park, No.900 WangJiang west Road, High-tech Zone, Hefei  
City, Anhui Province, 230088, People's Republic of China ~72: Li Gang;Mao Feng;Zhang Jianjun~ 33:CN  
~31:202410338740.X ~32:25/03/2024

2024/02850 ~ Complete ~54:SEED DISTRIBUTORS ~71:MARCHESAN IMPLEMENTOS E MÁQUINAS  
AGRÍCOLAS TATU S.A., Av. Marchesan, 1979, Matão, São Paulo, 15994-900, Brazil ~72: ANDERSON  
RICARDO DE SOUZA;JOSÉ LUIZ ALBERTO MARCHESAN;LUIZ GONZAGA DE SANTI LOUREIRO~ 33:BR  
~31:BR102023007954-7 ~32:26/04/2023

2024/02863 ~ Complete ~54:WEE1 INHIBITOR FOR CANCER ~71:Recurium IP Holdings, LLC, 10275 Science  
Center Drive, Suite 200, SAN DIEGO 92121, CA, USA, United States of America ~72: BUNKER, Kevin Duane;DE  
JONG, Petrus Rudolf;DONATE, Fernando;HUANG, Peter Qinhua;IZADI, Hooman;SAMATAR, Ahmed Abdi~  
33:US ~31:63/265,438 ~32:15/12/2021



2024/02868 ~ Complete ~54:TREATMENT METHOD FOR RETINAL DEGENERATION ~71:SMILEBIOTEK ZHUHAI LIMITED, Room 103, Building 1, 36 Doukou Road, Traditional Chinese Medicine Science and Technology Industrial Park of Co-operation between Guangdong and Macao, People's Republic of China ~72: WEI, Lai~ 33:CN ~31:202111067959.3 ~32:13/09/2021

2024/02873 ~ Complete ~54:REUSABLE PLASTICS CONTAINER ~71:ALPLA WERKE ALWIN LEHNER GMBH & CO. KG, Allmendstrasse 81, 6971, Hard, Austria ~72: DANIEL GOLDENSTEIN;NICOLAS THALER~ 33:CH ~31:070412/2021 ~32:18/10/2021

2024/02881 ~ Complete ~54:MEASUREMENT HOST SYSTEM FOR LOW-POWER-CONSUMPTION COAL SEAM EXPANSION DEFORMATION ~71:HUAINAN MINING (GROUP) CO., LTD, No.1 Dongshan Middle Road, Huainan, People's Republic of China;PING'AN COAL MINE GAS CONTROL NATIONAL ENGINEERING RESEARCH CENTER CO., LTD, No.6 Building, Smart Valley, High-tech Zone, Huainan, People's Republic of China ~72: CHEN, Benliang;CHENG, Haiyan;FENG, Anxiang;LEI, Chengxiang;NIU, Ben;WANG, Chuanbing~

2024/02851 ~ Complete ~54:MOUNTING PROCESS OF SQUARE HOPPER DOOR OF DREDGER ~71:ZHEJIANG INTERNATIONAL MARITIME COLLEGE, No. 268, Haitian Avenue, Lincheng New District, Zhoushan City, People's Republic of China ~72: LIU, Zailiang;PANG, Jun~

2024/02854 ~ Complete ~54:A QUICK DRYING HUIZHOU OPERA COSTUME WITH VENTILATION DEVICE ~71:ANHUI POLYTECHNIC UNIVERSITY, Beijing Middle Road, Wuhu City, People's Republic of China ~72: DING, Ru;GU, Chunhua;GU, Yimai;LI, Min;QI, Renjie;WANG, Yi;WANG, Zhidong;XING, Yingmei;YAN, Jiaxin;YU, Jun;ZHANG, Xiaowei~

2024/02869 ~ Complete ~54:COUPLING SYSTEM OF BIOMASS GASIFICATION AND WASTE INCINERATION ~71:HUADIAN ELECTRIC POWER RESEARCH INSTITUTE CO., LTD., No. 10, Xiyuan 1st Road, Sandun Town, People's Republic of China ~72: HE, Sheng;XU, Junfeng;XUE, Zhipeng~ 33:CN ~31:202310991422.9 ~32:08/08/2023

2024/02915 ~ Provisional ~54:MECHANIC MASTER ~71:TEBOGO MKHONTO, 25893 CETSHWAYO STREET, MAMELODI EAST, South Africa ~72: TEBOGO MKHONTO~

2024/02872 ~ Complete ~54:POST-TENSIONED EXPANDING CONCRETE WITH FIBERS FOR SLABS ~71:CCL STRESSING INTERNATIONAL LTD, Unit 8 Millennium Drive, LS11 SBP, Leeds, United Kingdom;NV BEKAERT SA, Bekaertstraat 2, 8550, Zwevegem, Belgium ~72: CAROL HAYEK;GERHARD VITT;HENDRIK THOOFT~ 33:EP ~31:21250006.0 ~32:29/09/2021

2024/02860 ~ Complete ~54:ANTI-PSYCHOTIC INJECTABLE EXTENDED-RELEASE COMPOSITION ~71:LABORATORIOS FARMACÉUTICOS ROVI, S.A., C/ Julian Camarillo, 35, 28037, Spain ~72: FRANCO RODRIGUEZ, Guillermo;GUTIERRO ADURIZ, Ibon~ 33:US ~31:63/246,446 ~32:21/09/2021;33:US ~31:63/310,884 ~32:16/02/2022

2024/02864 ~ 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 ~31:2115195.6 ~32:22/10/2021

2024/02866 ~ Complete ~54:PACKAGE FOR PRESERVING RESPIRING PRODUCE AND METHOD ~71:Perfo Knowledge B.V., Klompenmakersweg 16, WOERDEN 3449 JB, THE NETHERLANDS, Netherlands ~72: GROENEWEG, Bastiaan Rinke Antony~ 33:NL ~31:2029437 ~32:15/10/2021

2024/02853 ~ Complete ~54:A CLAMPING COMPONENT FOR SPINNING AND WARPING ~71:ANHUI POLYTECHNIC UNIVERSITY, Beijing Middle Road, Wuhu City, People's Republic of China ~72: LI, Bingbing;NIE, Wenqi;SUN, Yanyan;ZHOU, Wanyu~

2024/02855 ~ Complete ~54:COLD ROLLED AND HEAT TREATED STEEL SHEET AND A METHOD OF MANUFACTURING THEREOF ~71:ARCELORMITTAL, 24-26, Boulevard d'Avranches, Luxembourg ~72: Brian LIN;Damon PANAH;Hyojin SONG;Venkata Sai Ananth CHALLA~

2024/02859 ~ Complete ~54:ANTIBODIES TARGETING CCR2 ~71:GRANITE BIO AG, Aeschenvorstadt 36 4051, Switzerland ~72: MACK, Matthias~ 33:EP ~31:21204904.3 ~32:27/10/2021

2024/02865 ~ Complete ~54:ATMOSPHERIC WATER HARVESTING DEVICE AND METHOD ~71:Ahbstra Engineering Ltd, 7 Savoy Court, LONDON WC2R 0EX, UNITED KINGDOM, United Kingdom ~72: PERKIN, Richard~ 33:GB ~31:2113190.9 ~32:15/09/2021

2024/02842 ~ Complete ~54:EMBRYO GRAFTING METHOD FOR CITRUS HYBRID SEEDS ~71:CITRUS RESEARCH INSTITUTE OF ZHEJIANG PROVINCE, No. 11 Daqiao Road, Huangyan District, Taizhou, People's Republic of China ~72: CUI, Changjiang;HUANG, Xiu;KE, Fuzhi;NIE, Zhenpeng;SUN, Lifang;WANG, Luoyun~ 33:CN ~31:202310680064X ~32:09/06/2023

2024/02877 ~ Complete ~54:HUMAN IL-12P40 VARIANTS AND USES THEREOF ~71:SYNTHEKINE, INC., 1505 O'Brien Drive, Suite D Menlo Park, California, 94025, United States of America ~72: ANDREW MORIN;MICHAEL TOTAGRANDE;SCOTT MCCAULEY~ 33:US ~31:63/257,942 ~32:20/10/2021

- APPLIED ON 2024/04/15 -

2024/02914 ~ Complete ~54:METHOD AND SYSTEM FOR A FLOW-ISOLATED VALVE ARRANGEMENT AND A THREE-CHAMBER CYLINDER HYDRAULIC ARCHITECTURE ~71:PURDUE RESEARCH FOUNDATION, 101 Foundry Drive, Suite 2500, United States of America;WIPRO ENTERPRISES PVT LTD., Wipro House No.8, 7th Main, India ~72: BERTOLIN, Mateus;GUO, Xiaofan;NILSSON, Jan;VACCA, Andrea~ 33:US ~31:63/257,537 ~32:19/10/2021;33:US ~31:63/257,540 ~32:19/10/2021;33:US ~31:63/257,545 ~32:19/10/2021

2024/02886 ~ Complete ~54:WOODY PLANT FERMENTED PRODUCT, PREPARATION METHOD, FEED, AND APPLICATION THEREOF ~71:LI, Jining, No. 4, 6th Floor, Building 12, Mingxiu City, Huaxi District, Guiyang City, Guizhou Province, 550025, People's Republic of China ~72: LI, Jining;XUE, Yushan~

2024/02891 ~ Complete ~54:A METHOD OF CARBON REDUCTION IN SEWAGE TREATMENT ~71:ANHUI UNIVERSITY OF SCIENCE & TECHNOLOGY, No. 168, Taifeng Street, Tianjia'an District, Huainan City, Anhui Province, 232001, People's Republic of China ~72: Gang He;Xia Yang~

2024/02895 ~ Complete ~54:DATA ANALYSIS DEVICE BASED ON BIG DATA ~71:Nanchang Institute of Technology, No. 289 Tianxiang Avenue, High tech Development Zone, Nanchang City, Jiangxi Province, 330099, People's Republic of China ~72: Han Longzhe;Liu Baohong;Wei Chaoping;Xie Haihua;Zhang Yiyang;Zhao Jia~

2024/02910 ~ Complete ~54:RINSE-OFF PERSONAL CARE COMPOSITION ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: JINFANG WANG;XIAOYUN PAN;XUEZHI TANG~ 33:CN ~31:PCT/CN2021/130217 ~32:12/11/2021;33:EP ~31:21217667.1 ~32:24/12/2021

2024/02890 ~ Complete ~54:HIGH PRECISION CUTTING AND GRINDING INTEGRATED EQUIPMENT ~71:Jiaxing Vocational & Technical College, 547 Tongxiang Avenue, Jiaxing City, Zhejiang Province, People's Republic of China ~72: KONG Xiangjin~

2024/02901 ~ Complete ~54:METHODS AND COMPOSITION FOR CONTROLLING PESTS ~71:MMAG Co., Ltd., 1-19-1, Nihonbashi Chuo-ku, TOKYO 103-0027, JAPAN, Japan;UPL Corporation Limited, 5th Floor, Newport Building, Louis Pasteur Street, PORT LOUIS, MAURITIUS, Mauritius;UPL Europe Ltd., The Centre, 1st Floor, Birchwood Park, WARRINGTON WA3 6YN, CHESHIRE, UNITED KINGDOM, United Kingdom ~72: LUIS, Gustavo Rodrigues Gonella~ 33:IN ~31:202111049368 ~32:28/10/2021

2024/02900 ~ Complete ~54:TOWER TUBE SECTION, TOWER FRAME, WIND TURBINE GENERATOR SET, MOLD, AND FORMING METHOD ~71:Beijing Tensam High-Tech Wind Power Technology Co., Ltd., Room 401, Building 1, No. 19, Kangding Road Beijing Economic & Technological Development Zone Daxing, BEIJING 100176, CHINA (P.R.C.), People's Republic of China ~72: CONG, Ou;WANG, Peixian;XU, Ruilong~ 33:CN ~31:202111137327.X ~32:27/09/2021

2024/02909 ~ Complete ~54:CRYSTALLINE FORMS OF A SUBSTITUTED BENZIMIDAZOLE ACTING AS A CDK9 INHIBITOR AND USES THEREOF ~71:PRELUDE THERAPEUTICS, INCORPORATED, 175 Innovation Blvd., Wilmington, Delaware, 19805, United States of America ~72: ANDREW COMBS;GANFENG CAO;HUAPING ZHANG;LIANG LU;QUN LI~ 33:US ~31:63/255,562 ~32:14/10/2021

2024/02882 ~ Provisional ~54:CARDIOVASCULAR AND RESPIRATORY ABNORMALITIES SENSOR DEVICE FOR MOTOR VEHICLE DRIVERS ~71:Bernard Eugene Seekoei, 8 Ah-Shene Street, Bloemendal Bethelsdorp, South Africa;Katlheo Kevin Moeca, 37 Rooisering Street Weltevreden Park Ext5, South Africa ~72: Bernard Eugene Seekoei~

2024/02896 ~ Complete ~54:CONVEYOR BELT CONDITION MONITORING SYSTEM AND METHOD ~71:CMTE DEVELOPMENT LIMITED, Building 101, UQ Pinjarra Hills Campus, 2436 Moggill Road, Australia ~72: APOLO CANDO, Jose David;HOEHN, Karsten~ 33:AU ~31:2021903257 ~32:11/10/2021

2024/02908 ~ Complete ~54:DATA-DRIVEN, RISK AND ACTIVITY-BASED DYNAMIC AUDIT APPLICATION AND METHOD ~71:AMERICAN INSTITUTE OF CERTIFIED PUBLIC ACCOUNTANTS, 220 Leigh Farm Road Durham, North Carolina, 27707-8110, United States of America ~72: AMY RENEE PAWLICKI;CHRISTOPHER TRAVIS WEBB;GEORGE HERRMANN;HAROLD IRVING ZEIDMAN;JAMES MATTHEW YOUNG;JENNIFER JEAN WOOD;JESSICA ELIZABETH ESTRELLA;KAREN CHROSNIK LARSEN;KARL JOSEPH BUSCH;STEVEN EDWARD MORRISON;TAMMY LYNN SUBER MOONEY~ 33:US ~31:63/289,845 ~32:15/12/2021

2024/02904 ~ Complete ~54:MOLTEN GLASS TRANSPORT SYSTEM ~71:Owens-Brockway Glass Container Inc., One Michael Owens Way, PERRYSBURG 43551, OH, USA, United States of America ~72: FLYNN, Robin L.;GRAFF, Stephen;KIRKMAN, Thomas;PICKLES, Jason~ 33:US ~31:63/251,011 ~32:30/09/2021

2024/02906 ~ Complete ~54:NOVEL IMMUNE REGULATOR ~71:VIROTHERA LTD, St Johns Innovation Centre Cowley Road Cambridge, Cambridgeshire CB4 0WS, United Kingdom ~72: URSULA GOMPELS~ 33:LU ~31:500712 ~32:06/10/2021

2024/02905 ~ Complete ~54:METHODS FOR QUANTIFYING THE IMPACT OF SHEAR STRESS ON MAMMALIAN CELL LINES ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, New York, 10591, United States of America ~72: ALAN RONAN;IAN O'SHEA;JOHN CROWLEY;MARTIN POWER~ 33:US ~31:63/251,169 ~32:01/10/2021

2024/02907 ~ Complete ~54:NUCLEIC ACID CONSTRUCTS, VIRAL VECTORS AND VIRAL PARTICLES ~71:UCB BIOPHARMA SRL, Allée de la Recherche, 60, B-1070, Brussels, Belgium ~72: BRITTANY NICOLE VALLETTE;CHRISTIAN GILBERT JOSEPH WOLFF;CSILLA SIPEKY;MEIYU XU;NATALIA RODRIGUEZ ALVAREZ~ 33:US ~31:63/263,175 ~32:28/10/2021

2024/02899 ~ Complete ~54:METHOD, PROGRAM, AND APPARATUS FOR PROCESSING SENSITIVE DATA ~71:XERO LIMITED, 19-23 Taranaki Street, New Zealand ~72: CHEAH, Soon-Ee;THURIER, Quentin-Gabriel~ 33:AU ~31:2021903641 ~32:12/11/2021

2024/02887 ~ Complete ~54:A CNN AND RBM TECHNIQUES COMBINED METHOD FOR ENHANCED CLASSIFICATION OF BREAST CANCER IMAGES ~71:Dr. Gandhi Prasanna Lakshmi, Professor & Research Co – Ordinator, Sandip University, A - 1, Flat no. 501, Samraat Apna Ghar Society, Gangapur Road, Nashik, Maharashtra, 422222, India;Dr. Pawan R Bhaladhare, Professor and Head, Department of Computer Science and Engineering, Sandip University, Trimbak Road, Nashik, 422213, Maharashtra, India;Rahul Choudhary, Technical Assistant, A - 1, Flat no. 404, Samraat Apna Ghar Society, Gangapur Road, Nashik, Maharashtra, 422222, India ~72: Dr. Gandhi Prasanna Lakshmi~ 33:IN ~31:202421015672 ~32:03/03/2024

2024/02912 ~ Complete ~54:CRYOGENIC ENERGY STORAGE SYSTEMS AND METHODS OF OPERATING THE SAME ~71:UNIVERSITY OF KWAZULU-NATAL, Office of Registrar, University Road, Chiltern Hills, 3629 Westville, SOUTH AFRICA, South Africa ~72: JARVIS , Alan Lawrence Leigh~ 33:NL ~31:2029478 ~32:20/10/2021

2024/02893 ~ Complete ~54:BLOCKING AND AUTOCLOSING ARRANGEMENT ~71:AUTIDA AB, Skarpövågen 31, 132 32 Saltsjö-Boo, Sweden ~72: PETER STENLUND~ 33:SE ~31:2050755-4 ~32:24/06/2020

2024/02897 ~ Complete ~54:ALDOSTERONE SYNTHASE INHIBITORS FOR TREATING CHRONIC KIDNEY DISEASE ~71:BOEHRINGER INGELHEIM INTERNATIONAL GMBH, Binger Strasse 173, Germany ~72: CRONIN, Lisa V.;HAUSKE, Sibylle Jenny;RUETTEN, Hartmut~ 33:US ~31:63/289,177 ~32:14/12/2021

2024/02902 ~ Complete ~54:HEATING DEVICE FOR GENERATING CONSUMABLE AEROSOL ~71:Thought Leaders, Inc., 201 North Union Street, Suite 110, ALEXANDRIA 22314, VA, USA, United States of America ~72: JOYCE, Leigh Ann Blevins;SINGLETON, Mark;SINGLETON, Skeet M.;SPENCER, Veronica~ 33:US ~31:63/257,847 ~32:20/10/2021;33:US ~31:63/290,734 ~32:17/12/2021;33:US ~31:63/290,736 ~32:17/12/2021;33:US ~31:63/301,383 ~32:20/01/2022

2024/02889 ~ Complete ~54:A VEHICLE EMERGENCY BRAKING METHOD ~71:Lingnan Normal University, Cun jin Street, chi kan District, zhan jiang City, guang dong Province, People's Republic of China ~72: Chen jing yuan;Chen yu lin;Xiao shui qing~ 33:CN ~31:202310500943X ~32:05/05/2023

2024/02916 ~ Provisional ~54:ACS ~71:Pieter Bester, 255 Tipperary Road, South Africa;Vincent Bester, 130 Station Road, South Africa ~72: Vincent Bester~

2024/02883 ~ Provisional ~54:A UTILITY POLE ASSEMBLY ~71:SIGN SENTRY SOLUTIONS, 18 Swallowtail Road, LITTLE FALLS, Roodepoort 1724, Gauteng, SOUTH AFRICA, South Africa ~72: DOS SANTOS, Rayniel;ROGERS, Michael~

2024/02888 ~ Complete ~54:GREEN IONIC OXYGEN DISINFECTANT AND PREPARATION METHOD AND APPLICATION THEREOF ~71:Weijing Wang, Box 43, Guilin Medical College, No.20 Lequn Road, Guilin, Guangxi, 541001, People's Republic of China ~72: Bin Wen;Chaohui Luo;Congmin Wang;Hongyan Mo;Meiling Yuan;Weijing Wang;Zhenjun Lan;Zhixin Tang~

2024/03039 ~ Provisional ~54:ANTI SLIP WINDOW STOPPER ~71:Maboke Boitumelo Kevin, 6 visvanger, Birch acres, South Africa ~72: Maboke Boitumelo Kevin~

2024/02892 ~ Complete ~54:BRANCHING CYCLE GEOTHERMAL WELL FOR MINING HOT DRY ROCK GEOTHERMAL ENERGY ~71:China Pingmei Shenma Energy And Chemical Group Co., Ltd., No.21,

Kuanggongzhong Road, Pingdingshan City, Henan Province, 467099, People's Republic of China; Henan Polytechnic University, No.2001, Century Avenue, High-tech Zone, Jiaozuo City, Henan Province, 454150, People's Republic of China; Pingdingshan Tianan Coal Mining Co., Ltd., No.21, Kuanggong Road, Pingdingshan City, Henan Province, 467002, People's Republic of China ~72: HU, Cheng; JI, Hongbing; JING, Changsheng; LI, Fang; LI, Yanhe; LIAO, Jiajia; SANG, Xiangyang; WANG, Xinyi; WANG, Yingde; XIA, Daping; Xinyi WANG; YANG, Guohe; YANG, Haoju; YU, Zhenzi; YUAN, Xiaoying; ZHANG, Bo; ZHANG, Pingqing~

2024/02903 ~ Complete ~54: COMPOSITIONS AND METHODS FOR ALTERING PLANT DETERMINACY ~71: Monsanto Technology LLC, 800 North Lindbergh Boulevard, ST. LOUIS 63167, MO, USA, United States of America ~72: BROWER-TOLAND, Brent; KIM, Jeongwoon; MERRILL, Keith; RYMARQUIS, Linda; SLEWINSKI, Thomas L.; WOOTEN, JR. David R. ~33: US ~31: 63/278,903 ~32: 12/11/2021

2024/02911 ~ Complete ~54: RAZOR ~71: ANGELOS, Komninos George, 23 Joseph Avenue, NORTHCLIFF, Johannesburg 2195, Gauteng, SOUTH AFRICA, South Africa; LAWRENCE, Allen Preston, 1 Manly, 1 Van Der Kloof Road, RUIMSIG, Roodepoort 1732, Gauteng, SOUTH AFRICA, South Africa ~72: LAWRENCE, Allen Preston~

2024/02894 ~ Complete ~54: PREPARATION METHOD FOR POROUS NANO-CERAMIC FILTER ~71: Jingdezhen Ceramic University, Jingdezhen Ceramic University, Xianghu Town, Jingdezhen City, Jiangxi Province, 333403, People's Republic of China ~72: Zhao Ge~

2024/02913 ~ Complete ~54: PROCESS FOR PREPARING BICYCLIC GLYCINE-PROLINE COMPOUNDS AND MONOCYCLIC GLYCINE-PROLINE INTERMEDIATES THEREOF ~71: NEUREN PHARMACEUTICALS LIMITED, At The Offices of Lowndes Jordan, Level 15, PWC Tower, New Zealand ~72: BLOWER, Clive John; ESPENSEN, George Max; KEEN, Stephen Philip; LAWRENCE, Ronnie Maxwell; PARRY-JONES, David; SCOTT, Jeremy Peter ~33: AU ~31: 2021903383 ~32: 22/10/2021

2024/02885 ~ Complete ~54: A PREPARATION METHOD AND DEVICE OF HIGH-TEMPERATURE THERMAL AEROGEL ~71: ANHUI POLYTECHNIC UNIVERSITY, Beijing Middle Road, Wuhu City, People's Republic of China ~72: HU, Qiaole; NIE, Wenqi; SUN, Yanyan; WANG, Chenglong; XU, Jing; ZHAI, Xueting; ZHENG, Xianhong; ZU, Yifan~

2024/02884 ~ Provisional ~54: A METHOD OF DETERMINING AN OPTIMAL EXCESS ~71: Pebble Financial Technology (Pty) Ltd., 15 Fairway Drive, RANDPARK, Johannesburg 2194, Gauteng, SOUTH AFRICA, South Africa ~72: SINGH, Kiyara; VENTER, Daniel Gerrit~

2024/02898 ~ Complete ~54: TREATMENT OF KIDNEY DISEASE ~71: BERTRAM, Timothy A., 101 Market Street, Cayman Islands; JAIN, Deepak, 559 Sun Creek, United States of America ~72: BERTRAM, Timothy A.; JAIN, Deepak ~33: US ~31: 63/255,885 ~32: 14/10/2021; 33: US ~31: 63/307,801 ~32: 08/02/2022; 33: US ~31: 63/321,204 ~32: 18/03/2022

- APPLIED ON 2024/04/16 -

2024/02920 ~ Complete ~54: RADIATOR WITH THE COMBINATION OF NANOFLUIDS AND JET MICROCHANNELS BASED ON ADDITIVE MANUFACTURING ~71: Harbin Institute of Technology, No. 92, Xidazhi Street, Nangang District, Harbin City, Heilongjiang Province, 150001, People's Republic of China ~72: CHEN, Juhui; MENG, Guizhi; QU, Zhigang; SUN, Hao; YU, Guangbin~

2024/02922 ~ Complete ~54: A LINEAR ALTERNATING PERISTALTIC PIPELINE USED FOR SLURRY TRANSPORTATION ~71: Taiyuan University of Technology, 79 Yingze West Street, Wanbailin District, Taiyuan



City, Shanxi Province, People's Republic of China ~72: Gao Guijun;He Haochen;Jia Xuefeng;Kou Ziming;Li Guihu;Wang Yandong~ 33:CN ~31:2024101930656 ~32:21/02/2024

2024/02927 ~ Complete ~54:METHODS AND SYSTEMS FOR DISTRIBUTED BLOCKCHAIN FUNCTIONALITIES ~71:nChain Licensing AG, Grafenauweg 6, ZUG 6300, SWITZERLAND, Switzerland ~72: WRIGHT, Craig Steven~ 33:GB ~31:2115511.4 ~32:28/10/2021

2024/02941 ~ Complete ~54:IONIC LIQUIDS FOR DRUG DELIVERY ~71:PRESIDENT AND FELLOWS OF HARVARD COLLEGE, 17 Quincy Street, Cambridge, Massachusetts, 02138, United States of America ~72: ALEXANDER M CURRERI;JAYOUNG KIM;SAMIR MITRAGOTRI~ 33:US ~31:63/253,623 ~32:08/10/2021

2024/02923 ~ Complete ~54:PREPARATION METHOD OF CATALYST FOR SYNCHRONOUS PURIFICATION OF NO AND VOLATILE ORGANIC POLLUTANTS IN FLUE GAS ~71:HENAN UNIVERSITY OF URBAN CONSTRUCTION, LONGXIANG AVENUE, People's Republic of China ~72: GAO, Hongrun;HUANG, Qiaoyang;HUANG, Zhenzhen;JIANG, Libin;KANG, Haiyan;LIN, Lin;LIU, Biao;LIU, Jiayao;MAO, Yanli;SONG, Zhongxian;TIAN, Xinhui;WANG, Kai;ZHAI, Daning;ZHANG, Jinhui;ZHANG, Mengru;ZHAO, Shiyi;ZHU, Xinfeng~

2024/02926 ~ Complete ~54:DETERGENT GRANULES COATED WITH PRECIPITATED CALCIUM CARBONATE ~71:The Procter & Gamble Company, One Procter & Gamble Plaza, CINCINNATI 45202, OH, USA, United States of America ~72: XU, Dan;ZHANG, Yiqun;ZHAO, Guangzong~

2024/02961 ~ Complete ~54:BUOYANT FORCE UTILIZATION DEVICE ~71:ULLRICH, Thomas, MÄRKISCHES UFER 48, 10179, Germany ~72: ULLRICH, Thomas~ 33:LU ~31:LU500836 ~32:11/08/2021;33:DE ~31:10 2021 128 405.8 ~32:31/10/2021;33:WO ~31:PCT/EP2022/080310 ~32:28/10/2022

2024/02930 ~ Complete ~54:A RECYCLABLE AND SORTABLE THERMOPLASTIC COMPOSITION ~71:UPM-KYMMENE CORPORATION, Alvar Aallon katu 1, Finland ~72: DIEHL, Florian;GALL, Barbara~

2024/02935 ~ Complete ~54:TOPICAL COMPOSITIONS OF 2-PHENYL-3,4-DIHYDROPYRROLO[2,1-F][1,2,4]TRIAZINONE DERIVATIVES AND USES THEREOF ~71:TOPADUR PHARMA AG, GRABENSTRASSE 11A, 8952 SCHLIEREN, SWITZERLAND, Switzerland ~72: BOUVET, Raphael;CRACOWSKI, Jean, Luc;LUDIN, Christian;TENOR, Hermann~ 33:EP ~31:21199822.4 ~32:29/09/2021

2024/02938 ~ Complete ~54:MACHINE FOR HANDLING A LOAD OR A PERSON ~71:MANITOU BF, 430 Rue L'aubiniere, 44150, Ancenis, France ~72: CHARLOTTE LAIR;GUILLAUME GABILLARD;VALENTIN BREHIER~ 33:FR ~31:FR2110245 ~32:29/09/2021

2024/02919 ~ Provisional ~54:ENHANCED DISPENSING BAG-IN-A-BOX PACKAGING ~71:GEER, Barry, 10 Belmont Avenue, Oranjezicht, South Africa ~72: GEER, Barry;HUGO, George~

2024/02937 ~ Complete ~54:POWER CONTROL METHOD AND SYSTEM BASED ON LARGE-SCALE POWER FLOW ~71:ZHEJIANG ZHENENG ENERGY SERVICE CO., LTD., 7th Floor, No. 152 Tianmushan Road, Xihu District, Hangzhou City, People's Republic of China ~72: SUN, Chengfu;XU, Erfeng;YANG, Hua;ZHANG, Chengyu;ZHOU, Chong~ 33:CN ~31:2023101933414 ~32:03/03/2023

2024/02925 ~ Complete ~54:A NANO EMULSIFIED PHYTO-DRUG FOR TRANSDERMAL TREATMENT OF DIABETES ~71:UNIVERSITY OF SOUTH AFRICA, Muckleneuk Campus, Theo van Wyk Building,, PRETORIA 0001, SOUTH AFRICA, South Africa ~72: AKINSIPO, Oyesolape Basirat;ALAYANDE, Samson Oluwagbemiga;DARE, Enock Olugbenga;KATARE, Deepshikha Pande;MSAGATI, T.A.M.;OLADOYINBO, Fatai Oladipupo;SANNI, Lateef~ 33:ZA ~31:2021/07408 ~32:01/10/2021

2024/02929 ~ Complete ~54:NOVEL CRYSTALLINE FORMS ~71:Assembly Biosciences, Inc., 331 Oyster Point Blvd, 4th Floor, SOUTH SAN FRANCISCO 94080, CA, USA, United States of America ~72: JOHNSON, Mark;MOHAMMED, Noorullah Naqvi;WALLACE, Michael;WHITE, Nicole;WU, Yi;ZONG, Zhixin~ 33:US ~31:63/257,723 ~32:20/10/2021

2024/02940 ~ Complete ~54:NETWORK COMMUNICATION USING PROOF OF PRESENCE ~71:MICROSOFT TECHNOLOGY LICENSING, LLC, One Microsoft Way, Redmond, Washington, 98052-6399, United States of America ~72: ANKUR PATEL;BRANDON MURDOCH;PIETER RETIEF KASSELMAN;PREETI RASTOGI;WILLIAM LOUIS THOMAS~ 33:US ~31:17/523,665 ~32:10/11/2021

2024/02924 ~ Complete ~54:SILVER-BASED PLATING SOLUTION AND METHOD FOR PLATING SURFACES OF COPPER AND ALLOYS THEREOF WITH SILVER ~71:NORTHEASTERN UNIVERSITY, NO. 3-11, WENHUA ROAD, People's Republic of China ~72: LI, Xiaodong~

2024/02933 ~ Complete ~54:NEW THERAPEUTIC COMBINATIONS FOR THE TREATMENT OF PROGRESSIVE FIBROSING INTERSTITIAL LUNG DISEASES ~71:BOEHRINGER INGELHEIM INTERNATIONAL GMBH, Binger Strasse 173, Germany ~72: BAUER, Verena;BOSSERT, Sebastian Martin;HESSLINGER, Christian;KOBEL, Susan;LIU, Yi;NICKOLAUS, Peter;SARNO, Maria;VOSS, Florian~ 33:US ~31:63/287,641 ~32:09/12/2021;33:EP ~31:21218207.5 ~32:29/12/2021;33:EP ~31:22177757.6 ~32:08/06/2022

2024/02939 ~ Complete ~54:HANDLING MACHINE ~71:MANITOU BF, 430 Rue L'aubiniere, 44150, Ancenis, France ~72: GUILLAUME GABILLARD~ 33:FR ~31:2110245 ~32:29/09/2021

2024/02917 ~ Provisional ~54:THE DIGITALISATION OF PAPER-BASED MEDICAL PRESCRIPTIONS AND MEDICATION RELATED NOTIFICATIONS FOR PATIENT WELLBEING AND MEDICAL ADHERENCE ~71:Natsen Samuel Pather, 6 Kent Place, Hyde Park, Johannesburg, 2196, Gauteng, , South Africa, South Africa;Ravin Dhanesh Pitamber, 260 Kandelaar Avenue, La Montagne, 0184, Pretoria, Gauteng, South Africa, South Africa ~72: Natsen Samuel Pather;Ravin Dhanesh Pitamber~

2024/02934 ~ Complete ~54:METHOD FOR RECYCLING POLYOLEFIN CONTAINERS ~71:ALPLA WERKE ALWIN LEHNER GMBH & CO. KG, Allmendstrasse 81, Austria ~72: Cornelius AMANN;Michael HEYDE~ 33:CH ~31:CH070509/2021 ~32:05/11/2021

2024/02936 ~ Complete ~54:LIQUID-DISPENSING TAP ARRANGEMENT ~71:Conro Precision (Pty) Ltd, 16 Bertie Avenue, South Africa ~72: Mark ROOS~

2024/02928 ~ Complete ~54:MULTIPLE FLUIDIZED BED OR SPOUTED BED REACTORS FOR PLASTICS PYROLYSIS ~71:W. R. Grace & Co.-Conn., 7500 Grace Drive, COLUMBIA 21044, MD, USA, United States of America ~72: CHENG, Wu-Cheng;HARDING, Robert Hibbard;RAVIKIRAN, Anapagaddi;SIDDIEQ, Abubacker;YUAN, Guang~ 33:US ~31:63/252,929 ~32:06/10/2021

2024/02931 ~ Complete ~54:TRANSFORMING CANNABACEAE CELLS ~71:CIBUS EUROPE B.V., Ceresstraat 13, 4811 CA, Breda, Netherlands ~72: DA SILVA CONCEICAO, Alexandre;KURTZ, Brady;UPPGAARD, Anders~ 33:US ~31:63/245,301 ~32:17/09/2021

2024/02921 ~ Complete ~54:TEACHING DEMONSTRATION DEVICE ~71:JIAXING VOCATIONAL AND TECHNICAL COLLEGE, 1123 Changsheng South Road, Nanhui District, Jiaying City, Zhejiang Province, 314036, People's Republic of China ~72: HONG, Lingmin;LIU, Guilin~

2024/02932 ~ Complete ~54:SYSTEM AND METHOD FOR CASINO GAME ~71:NOVA WEEKLY ENTERTAINMENT COMPANY LIMITED, Flat B,17/F, Tsuen Fung Centre, Tsuen wan, Hong Kong ~72: HUANG, Zhenhui~ 33:HK ~31:32021041476.1 ~32:29/10/2021

2024/02918 ~ Provisional ~54:FOOD COMPOSITIONS ~71:ELOKANI INVESTMENTS (PTY) LTD., 209 Monaghan Farm, Lanseria, Gauteng, 1748, South Africa ~72: WENDY TLANGELANI VESELA-NTIMBANI~

2024/02942 ~ Provisional ~54:EQUIVA: COMPRESSED WASHING POWDER, THAT SAVES YOU TIME FROM LOOKING FOR SCOOP, TWO BLOCKS IS EQUIVALENT TO SCOOP, HAS HIGH FOAM, DISSOLVE EASILY IN WATER, KNOW WHAT YOU USE ~71:POULETHER LAETECIA NEO BUCIBA, 4696 MODIKO STREET, BOCHABELA LOCATION, South Africa ~72: POULETHER LAETECIA NEO BUCIBA ~

- APPLIED ON 2024/04/17 -

2024/02955 ~ Complete ~54:QUALITY SCORE COMPRESSION ~71:ILLUMINA, INC., 5200 Illumina Way, United States of America ~72: RIZK, Guillaume Alexandre Pascal~ 33:US ~31:63/110,308 ~32:05/11/2020

2024/02956 ~ Complete ~54:METHODS FOR IMPROVING THE ADSORPTION OF POLYSACCHARIDE-PROTEIN CONJUGATES AND MULTIVALENT VACCINE FORMULATION OBTAINED THEREOF ~71:SERUM INSTITUTE OF INDIA PRIVATE LTD., 212/2 Off Soli Poonawalla Road Hadapsar, Pune, Maharashtra, 411 028, India ~72: CHETAN VILAS JOSHI;DHERE RAJEEV MHALASAKANT;GAIROLA SUNIL JAGDISH PRASAD;GAUTAM MANISH MAHESH;GAVADE VINAY VIJAY;JAIN SHITAL SHANTILAL;KALE PRATHAMESH PRAKASH;MAHAJAN AMOL DATTATRAYA;MALLYA ASHA DINESH;MALVIYA HITESH KUMAR;PATNI SUSHIL VARDHAMAN;PAUL GOURAB SHANKAR;POONAWALLA CYRUS SOLI;SONI DIPEN JAGDISHBHAI;SWAPAN KUMAR JANA~

2024/02948 ~ Complete ~54:MATERIALS AND METHODS FOR INHIBITING A VIRAL INFECTION, INCLUDING A CORONAVIRUS INFECTION ~71:QUORUM INNOVATIONS, LLC, 2088 Hawthorne Street, Sarasota, United States of America ~72: BERKES, Eva, A.;BOEHM, Frederick T.;LIAO, Yu-Hsien;MONSUL, Nicholas, T.~ 33:US ~31:63/035,733 ~32:06/06/2020

2024/02945 ~ Provisional ~54:RECYCLING FURNACE ~71:TENOVA SOUTH AFRICA (PTY) LTD, 96 Loper Avenue Aeroport Spartan, Johannesburg, 1619, South Africa ~72: HUGO JOUBERT~

2024/02947 ~ Complete ~54:SOAK DEVICE AND METHOD FOR LOW-MERCURY CATALYST PRODUCTION ~71:Ningxia Xinlong Lantian Technology Co.,Ltd., The fine chemical industry base in Hongyazi Township, Pingluo County, Shizuishan City, Ningxia Hui Autonomous Region, People's Republic of China ~72: CHANG Bing'en;LI Qing;SUN Yumei~ 33:CN ~31:2023116444745 ~32:04/12/2023

2024/02953 ~ Complete ~54:OPTIMIZED PV GENERATION SYSTEM ~71:BRUWER, Frederick Johannes, 1 Bergsig Avenue, South Africa ~72: BRUWER, Frederick Johannes;BRUWER, Frederick Johannes Jnr~ 33:ZA ~31:2023/04445 ~32:17/04/2023

2024/02960 ~ Complete ~54:STABILIZER SYSTEM FOR CONTROLLING TIPPING OF FURNITURE ~71:Mirza Faizan, 4017 Timberidge Drive, Irving, 75038, United States of America ~72: Aarifa Fatima;Ashaz Haque;Hisham Ahmad;Isha Agrawal;Mansoor Hasan Khan;Mirza Faizan;Mirza Rizwan;Nakshatra Piduri;Nihal Yerubandi;Nithyashri Ramesh;Raahi S Jogani;Saadia Asaf;Sanjiv Sridharan;Sheza Asif;Sofia Sethuraman;Sooryavanshi Narayanan;Sparsh Kamdar;Vishy Narayanan~ 33:US ~31:18581067 ~32:19/02/2024

2024/02966 ~ Complete ~54:MULTIPLE CYLINDERS ~71:BASF SE, CARL BOSCH STRASSE 38, 67056 LUDWIGSHAFEN AM RHEIN, GERMANY, Germany;LINDE GMBH, DR.-CARL-VON-LINDE-STRASSE 6-14,

82049 PULLACH, GERMANY, Germany ~72: JENNE, Eric;KOCHENDOERFER, Kiara, Aenne;SHUSTOV, Andrey~ 33:EP ~31:21199084.1 ~32:27/09/2021

2024/02972 ~ Complete ~54:A PILE POSITION LOCATING DEVICE FOR A CEMENT MIXING PILE DRIVER ~71:China Railway First Group Co., Ltd, 1, Yanta North Road, Xi'an, Shaanxi Province, People's Republic of China ~72: Guo Zifei;Hu Lianyong;Hu Xiaping;Kang Kang;Li Chen;Li Fei;Li Weiwei;Yu Ziyong;Zhang Botao~ 33:CN ~31:2023210863079 ~32:08/05/2023

2024/02981 ~ Complete ~54:METHOD FOR PROVIDING A WHOLE GRAIN CEREAL BASED EXTRACT ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: ANANTA, Edwin;JAIN, Vishist Kumar;WAING, Seinn Lae~ 33:EP ~31:21198993.4 ~32:24/09/2021

2024/02951 ~ Complete ~54:ECOLOGICAL AND EFFICIENT COMPREHENSIVE PLANTING AND BREEDING METHOD OF ZIZANIA LATIFOLIA-CHAMPAE ARGUS-PELODISCUS SINENSIS ~71:Honghu Liancheng Ecological Agriculture Co., Ltd., No. 6 Mingliu Avenue, Xindi Economic Development Zone, Honghu City, Hubei Province, People's Republic of China;Institute of Hydrobiology, Chinese Academy of Sciences, No. 7 Donghu South Road, Wuchang District, Wuhan, Hubei Province, People's Republic of China ~72: GUO Chao;LI Mingwen;LI Wei;LIAO Chuansong;LIU Jiashou;XI Yewen;XU Dengge;YUAN Jing;ZHANG Tanglin~

2024/02967 ~ Complete ~54:BORATE-FREE, AQUEOUS COMPOSITION FOR CLEANING AND TREATING METALLIC SUBSTRATES ~71:CHEMETALL GMBH, TRAKEHNER STRASSE 3, 60487 FRANKFURT, GERMANY, Germany ~72: KOMP, Carola;ROESNER, Berit~ 33:EP ~31:21199169.0 ~32:27/09/2021

2024/02969 ~ Complete ~54:NON-TRANSGENIC SUNFLOWER PLANTS HAVING INCREASED TOLERANCE TO HERBICIDES ~71:BASF AGRICULTURAL SOLUTIONS SEED US LLC, 100 PARK AVENUE, FLORHAM PARK, NEW JERSEY 07932, USA, United States of America ~72: JANSENS, Stefan;MARTINS, Bianca, Assis, Barbosa~ 33:EP ~31:21199213.6 ~32:27/09/2021;33:EP ~31:22183513.5 ~32:07/07/2022

2024/02973 ~ Complete ~54:A DUST REDUCTION DEVICE FOR CONSTRUCTION ~71:China Railway First Group Co., Ltd, 1, Yanta North Road, Xi'an, Shaanxi Province, 710054, People's Republic of China ~72: Guo Zifei;Hu Xiaping;Li Fei;Liu Jihong;Mao Wending;Tong Hanlin;Xin Yuexin;Yu Ziyong;Yuan Zhilu~ 33:CN ~31:2023210787107 ~32:08/05/2023

2024/02992 ~ Complete ~54:CONTROLLED TRANSCRIPTION OF POLYNUCLEOTIDES ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, New York, 10591, United States of America ~72: DARYA BURAKOV;GANG CHEN;YU ZHAO~ 33:US ~31:63/256,831 ~32:18/10/2021

2024/02963 ~ Complete ~54:SMALL MOLECULE INHIBITORS OF UBIQUITIN SPECIFIC PROTEASE 1 (USP1) AND USES THEREOF ~71:INSILICO MEDICINE IP LIMITED, 26th Floor, Three Exchange Square, 8 Connaught Place, Central, People's Republic of China ~72: LIU, Jinxin;QIN, Luoheng;WU, Jianping~ 33:CN ~31:PCT/CN2021/130284 ~32:12/11/2021;33:CN ~31:PCT/CN2022/123821 ~32:08/10/2022

2024/02964 ~ Complete ~54:METHODS FOR PROGNOSING TYPE 1 DIABETES TREATMENTS ~71:CUTHBERTSON, David, c/o University of South Florida, 3650 Spectrum Boulevard, Suite 100, United States of America;PROVENTION BIO, INC., 55 Broad Street, 2nd Floor Red Bank, United States of America;SIMS, Emily, K., c/o Indiana University School of Medicine, 340 W 10th Street, United States of America;SOSENKO, Jay, M., c/o University of Miami Miller School of Medicine, 1600 NW 10th Avenue, United States of America ~72: CUTHBERTSON, David;LEON, Francisco;SIMS, Emily, K.;SOSENKO, Jay, M.~ 33:US ~31:63/246,184 ~32:20/09/2021

2024/02968 ~ Complete ~54:BEAM FAILURE MONITORING AND RECOVERY IN SIDELINK  
~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83 STOCKHOLM, SWEDEN, Sweden ~72:  
ORSINO, Antonino~ 33:US ~31:63/248,650 ~32:27/09/2021

2024/02984 ~ Complete ~54:NOVEL MOLECULES FOR THERAPY AND DIAGNOSIS ~71:AC Immune SA,  
EPFL Innovation Park, Building B, LAUSANNE 1015, SWITZERLAND, Switzerland ~72: BASCO,  
Davide;OLLIER, Romain Christian;SEREDENIN, Tamara~ 33:EP ~31:21208651.6 ~32:16/11/2021;33:EP  
~31:22194983.7 ~32:09/09/2022

2024/02974 ~ Complete ~54:CO-CULTURES FOR EFFICIENTLY PRODUCING A FERMENTED BEVERAGE  
~71:HEINEKEN SUPPLY CHAIN B.V., Tweede Weteringplantsoen 21, Netherlands ~72: DARAN, Jean-Marc  
George;DIDERICH, Jasper Andries;PERLI, Thomas;VITALI-VASQUEZ, Maria~ 33:EP ~31:21204308.7  
~32:22/10/2021

2024/02980 ~ Complete ~54:TRANSPORT PODS ~71:Hubl Logistics Ltd, Cabourn House, Station Street,  
BINGHAM NG13 8AQ, NOTTINGHAMSHIRE, UNITED KINGDOM, United Kingdom ~72: BICKERTON,  
Ronald;FROST, Hugh~ 33:GB ~31:2108787.9 ~32:18/06/2021;33:GB ~31:2108790.3 ~32:18/06/2021;33:GB  
~31:2108792.9 ~32:18/06/2021;33:GB ~31:2108793.7 ~32:18/06/2021;33:GB ~31:2108795.2 ~32:18/06/2021

2024/02985 ~ Complete ~54:A METHOD OF CONTROLLING RESISTANT AND NON-RESISTANT PESTS  
~71:MMAG Co., Ltd., 1-19-1 Nihonbashi Chuo-ku, TOKYO 103-0027, JAPAN, Japan;UPL Corporation Limited,  
5th Floor, Newport Building, Louis Pasteur Street, PORT LOUIS, MAURITIUS, Mauritius;UPL Europe Ltd., The  
Centre, 1st Floor, Birchwood Park, WARRINGTON WA3 6YN, CHESHIRE, UNITED KINGDOM, United Kingdom  
~72: LUIS, Gustavo Rodrigues Gonella~ 33:IN ~31:202111049369 ~32:28/10/2021

2024/02987 ~ Complete ~54:SYSTEMS AND METHODS OF PH MODELING AND CONTROL  
~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, New York, 10591,  
United States of America ~72: ROSS BROWNE~ 33:US ~31:63/253,281 ~32:07/10/2021

2024/02952 ~ Complete ~54:BACILLUS STERCORIS AND APPLICATION THEREOF ~71:Chinese Academy of  
Tropical Agricultural Sciences Environment and Plant Protection Institute, No. 4 Xueyuan Road, Longhua District,  
Haikou City, Hainan Province, 571101, People's Republic of China ~72: PU Jinji;QI Yanxiang;YU Qunfang;ZENG  
Fanyun;ZHANG He;ZHANG Xin~ 33:CN ~31:2024101044049 ~32:25/01/2024

2024/02975 ~ Complete ~54:TRANSCIEVER POINT BEAM FAILURE RECOVERY ~71:NOKIA  
TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: KOSKELA, Timo;TURTINEN,  
Samuli, Heikki;WU, Chunli~

2024/02979 ~ Complete ~54:COSMETIC PREPARATION CONTAINING LIME GLASS BEADS WITH HIGH  
SPECIFIC WEIGHT ~71:Beiersdorf AG, Unnastraße 48, HAMBURG 20253, GERMANY, Germany ~72:  
GOULET-HANSSSENS, Alexis;HEINSEN, Carsten;SCHLENKER, David;SIVACILAR, Berkay Daniel;VOLBRICH,  
Heike~ 33:DE ~31:10 2021 210 629.3 ~32:23/09/2021

2024/02959 ~ Complete ~54:MULTIPLE STABLE ISOTOPE LABELING METHOD TO IDENTIFY THE  
PATHWAY OF ACCUMULATED HEAVY METALS ABSORBED BY CORALS ~71:CNOOC Research Institute  
Ltd., Block B, CNOOC Building, No. 6, Taiyanggong South Street, Chaoyang District, Beijing, 100028, People's  
Republic of China;East China Sea Ecological Center, Ministry of Natural Resources, No. 1515, Chuanqiao Road,  
Pudong New District, Shanghai, 201206, People's Republic of China;North China Sea Forecasting and Disaster  
Reduction Center, Ministry of Natural Resources, Office Building, No. 27, Yunling Road, Laoshan District,  
Qingdao, Shandong, 266061, People's Republic of China;Polar Research Center of China, No. 451, Jinqiao  
Road, Hudong Street, Pudong New District, Shanghai, 200129, People's Republic of China;South China Sea



Ecological Center, Ministry of Natural Resources, Building 24, No. 155, Xingang West Road, Haizhu District, Guangzhou, Guangdong, 510300, People's Republic of China; South China Sea Institute of Oceanography, Chinese Academy of Sciences, No. 1119 Haibin Road, Nansha District, Guangzhou, Guangdong, 511458, People's Republic of China ~72: AN Mingming; CHEN Hao; CHEN Changshu; CHEN Chaohui; CHEN Xin; CHEN Zhiqiang; DANG Aicui; DENG Wei; DU Weimeng; GAO Yang; HUANG Yangzhou; JI Xiao; JIA Houlei; LI Tuanjie; LI Yingzhi; LIU Jingqin; LIU Tao; LU Chuqian; LUO Guangfu; LV Yanru; LV Yihua; MA Dongdong; NI Zhixin; PENG Xiaojuan; QI Luyang; SHANGGUAN Maosen; SHI Xiaojun; WANG Meng; WANG Xiaojuan; WANG Yuru; XIONG Xiaofei; YANG Jiayu; YE Jianping; YE Lijin; YUAN Lei; YUE Xinan; ZHANG Chunchao; ZHANG Haizhou; ZHANG Li; ZHANG Minxia; ZHOU Peng ~ 33:CN ~31:2024101783799 ~32:08/02/2024

2024/02954 ~ Complete ~54:BACK-DRAGGING ASSISTANCE DEVICE FOR PIPE OF DIRECTIONAL DRILL ~71:CHINA RAILWAY FIRST GROUP CO., LTD, No.1, Yanta North Road, Beilin District, Xi'an City, Shaanxi Province, 710000, People's Republic of China; CHINA RAILWAY FIRST GROUP ELECTRICAL ENGINEERING CO., LTD., No. 1111, Baliu First Road, Baqiao District, Xi'an City, Shaanxi Province, 710000, People's Republic of China ~72: CUI, Kai; DU, Yinlong; LIU, Guoyan; SHI, Feng; SHI, Shaoxuan; YANG, Qing; ZHANG, Shengze ~ 33:CN ~31:202311592535.8 ~32:27/11/2023

2024/02957 ~ Complete ~54:IMAGE RESHAPING IN VIDEO CODING USING RATE DISTORTION OPTIMIZATION ~71:DOLBY LABORATORIES LICENSING CORPORATION, 1275 Market Street, San Francisco, California, 94103, United States of America ~72: FANGJUN PU; PENG YIN; SEAN THOMAS MCCARTHY; TAO CHEN; TAORAN LU; WALTER J HUSAK ~ 33:US ~31:62/630,385 ~32:14/02/2018; 33:US ~31:62/691,366 ~32:28/06/2018; 33:US ~31:62/726,608 ~32:04/09/2018; 33:US ~31:62/739,402 ~32:01/10/2018; 33:US ~31:62/772,228 ~32:28/11/2018; 33:US ~31:62/782,659 ~32:20/12/2018; 33:US ~31:62/792,122 ~32:14/01/2019

2024/02958 ~ Complete ~54:A METHOD AND SYSTEM FOR DETERMINING THE LOCATION OF ARTEFACTS AND/OR INCLUSIONS IN A GEMSTONE, MINERAL, OR SAMPLE THEREOF ~71:AUSTRALIAN NATIONAL UNIVERSITY, Technology Transfer Office X-005, Childers St., Lv6 Acton, Australian Capital Territory, 2601, Australia ~72: ADRIAN PAUL SHEPPARD; JONG HANN CHOW; KESHU HUANG; ROLAND FLEDDERMANN; SHANE JAMIE LATHAM; TIMOTHY JOHN SENDEN ~ 33:AU ~31:2018900677 ~32:02/03/2018

2024/02949 ~ Complete ~54:SAFE HARBOR LOCI ~71:ARSENAL BIOSCIENCES, INC., 329 Oyster Point Blvd, United States of America ~72: COOPER, Aaron; GALVIN, Brendan; KHARE, Somya; NGUYEN, Michelle; YAO, Anzhi; ZHENG, Xinying ~ 33:US ~31:63/105,834 ~32:26/10/2020; 33:US ~31:63/141,926 ~32:26/01/2021; 33:US ~31:63/179,143 ~32:23/04/2021

2024/02950 ~ Complete ~54:MEDICAL SURGICAL LIGHTING DEVICE ~71:NINGBO NO.2 HOSPITAL, NO.41, XIBEI STREET, People's Republic of China ~72: YAN, Jia ~

2024/02971 ~ Complete ~54:ROTOR DYNAMIC BALANCE MEASUREMENT METHOD BASED ON HIGH-PRECISION CLOCK SAMPLING ~71:TANGSHAN UNIVERSITY, No. 11 West University Road, Tangshan, Hebei, 063000, People's Republic of China ~72: GONG, Cheng; JIA, Zhaomin; MA, Zhuang; XUE, Yali ~ 33:CN ~31:2023108456609 ~32:11/07/2023

2024/02983 ~ Complete ~54:AGROCHEMICAL FORMULATIONS FOR MITIGATING CRYSTALLIZATION ~71:Syngenta Crop Protection AG, Rosentalstrasse 67, BASEL 4058, SWITZERLAND, Switzerland ~72: FORREST, James Owen; JHURRY, Nema Devi ~ 33:EP ~31:21205679.0 ~32:29/10/2021

2024/02991 ~ Complete ~54:POLYMERIZATION PROCESS ~71:INEOS USA LLC, 2600 South Shore Boulevard Suite 500, League City, Texas, 77573, United States of America ~72: JAMES H LEE; ROBERT TOPLISS; WILLIAM D STEPHENS; WILLIAM E BEARDSLEY ~ 33:US ~31:17/547,029 ~32:09/12/2021

2024/02976 ~ Complete ~54:MOBILE ROBOT REALIZING ACTIVE OBSTACLE AVOIDANCE ~71:West Anhui University, Yueliang Island, Yunlu Bridge, Yu'an District, Lu'an, People's Republic of China ~72: Bao Huifang;Fang Jie;Li Zebin;Wu Yuebo;Zhang Jinsi~ 33:CN ~31:202310789568.5 ~32:30/06/2023

2024/02978 ~ Complete ~54:DEVICE FOR DETECTING WATER CONTENT IN SOIL ~71:West Anhui University, Yueliang Island, Yunlu Bridge, Yu'an District, Lu'an, People's Republic of China ~72: Bao Huifang;Fang Jie;Wang Ruisong;Wu Yuebo;Zhou Jian~ 33:CN ~31:202310824453.5 ~32:06/07/2023

2024/02989 ~ Complete ~54:CONTAINER CLOSURE AND CONTAINER ~71:ALPLA WERKE ALWIN LEHNER GMBH & CO. KG, Allmendstrasse 81, 6971, Hard, Austria ~72: MAIK GÖPFERT;STEFFEN KROON~ 33:CH ~31:070339/2021 ~32:01/10/2021

2024/02977 ~ Complete ~54:SOIL EXTRACTION DEVICE ~71:West Anhui University, Yueliang Island, Yunlu Bridge, Yu'an District, Lu'an, People's Republic of China ~72: Bao Huifang;Fang Jie;Wang Ruisong;Wu Yuebo;Zhou Jian~ 33:CN ~31:202310874303.5 ~32:17/07/2023

2024/02988 ~ Complete ~54:PH METER CALIBRATION AND CORRECTION ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, New York, 10591, United States of America ~72: ROSS BROWNE~ 33:US ~31:63/253,336 ~32:07/10/2021

2024/02962 ~ Complete ~54:A PLANT TRANSPORT PRESERVATION DEVICE ~71:Guangzhou College of Technology and Business, 28 Shiling South Ring Road, Shiling Town, Huadu District, Guangzhou City, People's Republic of China ~72: Mei Xiuqin;Wu Fuhai~

2024/02982 ~ Complete ~54:ANTI-CD37 ANTIBODY-DRUG CONJUGATE ~71:Daiichi Sankyo Company, Limited, 3-5-1, Nihonbashi Honcho, Chuo-ku, TOKYO 103-8426, JAPAN, Japan ~72: GOTO, Riki;SHINJO, Yuji;SHUCHI, Yusuke;SUGAWARA, Hajime;TERAUCHI, Tomoko~ 33:JP ~31:2021-170114 ~32:18/10/2021

2024/02986 ~ Complete ~54:COMBINATION OF ANTIBODY-DRUG CONJUGATE AND PARP1 SELECTIVE INHIBITOR ~71:AstraZeneca UK Limited, 1 Francis Crick Avenue, Cambridge Biomedical Campus, CAMBRIDGE CB2 0AA, UNITED KINGDOM, United Kingdom;Daiichi Sankyo Company, Limited, 3-5-1, Nihonbashi Honcho, Chuo-ku, TOKYO 103-8426, JAPAN, Japan ~72: LEO, Elisabetta;METTETAL II, Jerome Thomas;PROIA, Theresa Angela;SUNG, Matthew Simon;WALLEZ, Yann~ 33:US ~31:63/280,682 ~32:18/11/2021

2024/02993 ~ Complete ~54:MAMMALIAN CELLS COMPRISING INTEGRATED CAS9 GENES TO PRODUCE STABLE INTEGRATION SITES, AND MAMMALIAN CELLS COMPRISING STABLE INTEGRATION SITES AND OTHER SITES ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, New York, 10591, United States of America ~72: DARYA BURAKOV;DIPALI DESHPANDE;GANG CHEN;MICHAEL GOREN;YU ZHAO~ 33:US ~31:63/256,675 ~32:18/10/2021

2024/02943 ~ Provisional ~54:ESTATE AGENT FACILITATION ~71:JHAGAROO, Randir Tahal, 436 Carlswald North Estate, Tamboti Road, South Africa ~72: JHAGAROO, Randir Tahal~

2024/02944 ~ Provisional ~54:COMPOSITE SUPPORT PACK ~71:LITECONCRETE (PTY) LTD, 37 Steenbras Road, Philippi, Unit 4, Surinam;MSP MINE SUPPORT PRODUCTS (PTY) LTD, 108 Houtkop Rd, Vereeniging; 58 Watt Road, New Era, South Africa ~72: COWIE, Hilton James;NISSEN, Christian Engelsoft~

2024/02946 ~ Provisional ~54:STORAGE AND TRANSPORT OF SODIUM HYPOCHLORITE ~71:NUVEST RECOVERY SOLUTIONS (PTY) LTD, 65 Philip Engelbrecht Dr, Meyersdal, 1448, South Africa ~72: IAN TUNNICLIFFE~

2024/02965 ~ Complete ~54:REDUCING OR INHIBITING TISSUE DAMAGE USING HYALURONIDASE ADMINISTRATION ~71:MED PROGRESS, LLC, 355 PLACENTIA AVENUE, #203, NEWPORT BEACH, CALIFORNIA 92663, USA, United States of America ~72: YOELIN, Steve~ 33:US ~31:63/248,447 ~32:25/09/2021

2024/02970 ~ Complete ~54:PHOTOELECTRIC WATER-PERMEABLE PAVEMENT UNDERGROUND WATER STORAGE AUTOMATION SYSTEM ~71:CHEN, Jui-Wen, No. 23, Lane 123, Junying Street, Shulin District, Taiwan, Province of China ~72: CHEN, Jui-Wen~ 33:CN ~31:202111218202.X ~32:20/10/2021

2024/02990 ~ Complete ~54:EUKARYOTIC CELLS COMPRISING ADENOVIRUS-ASSOCIATED VIRUS POLYNUCLEOTIDES ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, New York, 10591, United States of America ~72: ALEXANDROS STRIKOUDIS;DARYA BURAKOV;GANG CHEN;MICHAEL GOREN;YU ZHAO~ 33:US ~31:63/256,730 ~32:18/10/2021

- APPLIED ON 2024/04/18 -

2024/02995 ~ Provisional ~54:PREPARATION OF A RALOXIFENE HYDROCHLORIDE HYDRATE SOLVATE FOR CANCER AND OSTEOPOROSIS THERAPY ~71:SEFAKO MAKGATHO HEALTH SCIENCES UNIVERSITY, Molotlegi Street, Ga-Rankuwa, Gauteng, 0204, South Africa ~72: EMMANUEL KIYONGA;POKA MADAN;WITIKA BWALYA~

2024/03017 ~ Complete ~54:THERAPEUTIC COMPOUNDS FOR HIV VIRUS INFECTION ~71:GILEAD SCIENCES, INC., 333 Lakeside Drive, Foster City, United States of America ~72: FARAND, JULIE;GRAUPE, MICHAEL;GUNEY, TEZCAN;KATO, DARRYL;LI, JIAYAO;LINK, JOHN O.;MACK, JAMES B.C.;MUN, DONG MIN;SAITO, ROLAND D.;WATKINS, WILLIAM J.;ZHANG, JENNIFER R.~ 33:US ~31:63/285,730 ~32:03/12/2021;33:US ~31:63/356,889 ~32:29/06/2022

2024/03008 ~ Complete ~54:METHOD AND SYSTEM FOR PRODUCING HYDROGEN FLUORIDE ~71:GUIZHOU WENGFU LANTIAN FLUORCHEM CO., LTD, No. 11 Yingbin Road, Machangping Office, Fuquan City, Qiannan, Guizhou, 550500, People's Republic of China ~72: HAIBING LENG;JILIN LUO;NAN ZHANG;SHENGBO FENG;WEI CHEN;YONGGANG HE~ 33:CN ~31:202310423296.7 ~32:19/04/2023

2024/03038 ~ Complete ~54:MOBILE ROBOT REALIZING AUTOMATIC CONTROL ~71:West Anhui University, Yueliang Island, Yunlu Bridge, Yu'an District, Lu'an, People's Republic of China ~72: Bao Huifang;Li Zebin;Wang Chuansheng;Wu Yuebo;Xu Junfeng~ 33:CN ~31:202311144161.3 ~32:06/09/2023

2024/03026 ~ Complete ~54:CATALYTIC PYROLYSIS OF PLASTICS TO PRODUCE PETROCHEMICAL FEEDSTOCK ~71:Universidad del Pais Vasco, University of the Basque Country, Sarriena Auzoa z/g, LEIOA E-48940, SPAIN, Spain;W. R. Grace & Co.-Conn., 7500 Grace Drive, COLUMBIA 21044, MD, USA, United States of America ~72: CHENG, Wu-Cheng;HARDING, Robert Hibbard;LOPEZ ZABALBEITIA, Gartzzen;OLAZAR AURRECOECHEA, Martin;PADOVANI, Alessia;YUAN, Guang~ 33:US ~31:63/252,861 ~32:06/10/2021

2024/03033 ~ Complete ~54:METHODS FOR REFORMING A HEAVY AROMATIC STREAM ~71:VIRENT, INC., 3571 Anderson Street, Madison, Wisconsin, 53704, United States of America ~72: BRICE DALLY;MATTHEW VAN STRATEN;PAUL G BLOMMEL~ 33:US ~31:63/255,817 ~32:14/10/2021

2024/02994 ~ Provisional ~54:BENEFICIATION OF LOW CONCENTRATION PRE-REDUCED MNO TO PRODUCE MNSO4 ~71:INNOVATIVE MANGANESE TECHNOLOGIES SA (PTY) LTD., 97 Broadbury Circle, Cornwall Hill Estate, CORNWALL HILL, 0178, Gauteng Province, SOUTH AFRICA, South Africa ~72: PRETORIUS, Gerard~

2024/03010 ~ Complete ~54:METHOD FOR PROMOTING EFFICIENT REPLACEMENT AND HOMOGENIZATION OF CHLAMYDOMONAS CHLOROPLAST GENOME ~71:SHENZHEN UNIVERSITY, No. 3688, Nanhai Road, Nanshan District Shenzhen, People's Republic of China ~72: GUO, Chunli;HU, Zhangli;JIA, Bin;JIANG, Yanan;LI, Xinyi;ZHANG, Guiying~ 33:CN ~31:202311319287.X ~32:12/10/2023

2024/03014 ~ Complete ~54:SEED DELIVERY DEVICE COMPRISING A HELICAL CHANNEL AND RELATED ROW UNIT AND METHOD ~71:PRECISION PLANTING LLC, 23207 Townline Road, Tremont, United States of America ~72: HODEL, Jeremy~ 33:US ~31:63/264,109 ~32:16/11/2021

2024/03020 ~ Complete ~54:PRODRUGS OF L-BH DU AND METHODS OF TREATING VIRAL INFECTIONS ~71:ANTEROGEN CO. LTD, 405 Namseong Plaza, 345-30 Gasan-dong, Republic of Korea;UNIVERSITY OF GEORGIA RESEARCH FOUNDATION, INC., Innovation Gateway, Office of Research, University of Georgia, United States of America ~72: CHU, Chung K.;SINGH, Uma Sharan~ 33:US ~31:63/273,403 ~32:29/10/2021

2024/03011 ~ Complete ~54:A DUAL-FEED TRI-BAND MICROSTRIP PATCH ANTENNA DEVICE FOR 5G COMMUNICATION APPLICATIONS ~71:Aditya Tiwari, RCET, Bhilai (C.G), India;Dr. Amiya Bhusana Sahoo, Department of Electronics and Communication Engineering, Silicon University, Silicon Hills, Patia, Bhubaneswar, 751024, Odisha, India;Dr. MANAS RANJAN JENA, Department of Electronics and Communication Engineering, Silicon Institute of Technology, Sambalpur, Odisha, 768200, India;Dr. RAJIV PATHAK, Department of Information Technology, Bhilai Institute of Technology, Durg, (C.G) 491001, India;Dr. Sanjeev Karmakar, Department of Computer Applications, Bhilai Institute of Technology Durg, 491001, C.G., India;Dr. VIKAS PANDEY, Department of Information Technology, Bhilai Institute of Technology, Durg, C.G., 491001, India ~72: Aditya Tiwari;Dr. Amiya Bhusana Sahoo;Dr. MANAS RANJAN JENA;Dr. RAJIV PATHAK;Dr. Sanjeev Karmakar;Dr. VIKAS PANDEY~

2024/02997 ~ Complete ~54:COMBINED DISPLAY STAND FOR OUTDOOR STAGE ~71:Jiaxing Vocational & Technical College, 547 Tongxiang Avenue, Jiaxing City, Zhejiang Province, People's Republic of China ~72: ZHANG Yi~

2024/03009 ~ Complete ~54:A PRESCRIPTION FOR TREATING OCTAGONAL ANTHRAX ~71:GUANGXI FORESTRY RESEARCH INSTITUTE, 23 Yongwu Road, Nanning, People's Republic of China;GUANGXI STATE-OWNED LIUWAN FOREST FARM, No. 6, Yuchai Road, Yuchu District, Yulin City, People's Republic of China ~72: Dongxia ZOU;Hai WU;Jiakun PENG;Jiebiao CHEN;Jinglun HUANG;Naixiu HUANG;Pengfei ZHAO;Quanwu ZHANG;Shaoxin ZHENG;Wangjiao LIAO;Xiaogang MO;Yating ZHONG;Yongsheng DENG~ 33:CN ~31:202310573013.7 ~32:20/05/2023

2024/03015 ~ Complete ~54:EMBEDDED PARTICLE-REINFORCED HIGH-ENTROPY ALLOY-BASED SUPERHARD NANOCOMPOSITE MATERIAL AND PREPARATION METHOD THEREOF ~71:CHANGSHU TIANDI COAL MINING EQUIPMENT CO., LTD., No.18 Jiaxing Road, Yushan Town, Changshu City, Suzhou, People's Republic of China;CHINA UNIVERSITY OF MINING AND TECHNOLOGY, No.1, Daxue Road, Tongshan, Xuzhou, People's Republic of China ~72: CHEN, Xuan;CHEN, Zheng;CHENG, Chunlong;DAI, Jianping;FAN, Yu;LIU, Kun;WANG, Lin;WANG, Yeqing;XU, Jie;XUE, Yu~ 33:CN ~31:202210609918.0 ~32:31/05/2022

2024/02998 ~ Complete ~54:IRRIGATION ~71:AGRI OPTIMISATION (MUS) LIMITED, Block E River Court, 6 St Denis Street, Port Louis 11328, MAURITIUS, Mauritius ~72: Geldenhuys, Stephanus Johannes~

2024/03002 ~ Complete ~54:VISUAL DETECTION METHOD FOR BOVINE NOROVIRUS BASED ON RAA-CRISPRCAS12A AND APPLICATION THEREOF ~71:Xinjiang Agricultural University, No.311 Nongda East Road, Shayibake District, Urumqi, Xinjiang Uygur Autonomous Region, 830052, People's Republic of China ~72: Haoran LIU;Huijun SHI;Jianlin LI;Junzhen CHEN;Qiang FU;Rezeguli-AIKEBAIER;Siqi MA;Yingxin LI~

2024/03006 ~ Complete ~54:METHOD FOR SEPARATING MIXED SOLUTION CONTAINING HYDROGEN FLUORIDE AND SULFURIC ACID ~71:GUIZHOU WENGFU LANTIAN FLUORCHEM CO., LTD, No. 11 Yingbin Road, Machangping Office, Fuquan City, Qiannan, Guizhou, 550500, People's Republic of China ~72: HONGYING ZHANG;JIANGUO LI;NAN ZHANG;WEI CHEN;XINGQIAN WU;YONGGANG HE~ 33:CN ~31:202310422852.9 ~32:19/04/2023

2024/03013 ~ Complete ~54:3-PHENYL-1-BENZOTHIOPHENE-2-CARBOXYLIC ACID DERIVATIVES AS BRANCHED-CHAIN ALPHA KETO ACID DEHYDROGENASE KINASE INHIBITORS FOR THE TREATMENT OF DIABETES, KIDNEY DISEASES, NASH AND HEART FAILURE ~71:PFIZER INC., 66 Hudson Boulevard East, New York, United States of America ~72: BUZON, Leanne Marie;CAMERON, Kimberly O'Keefe;DEBOYACE, Kevin Francis;FILIPSKI, Kevin James;GRIFFITH, David Andrew;KORMOS, Bethany Lyn;LIU, Shenping;MARTINEZ ALSINA, Luis Angel;REESE, Matthew Richard;ROTH FLACH, Rachel Jane;ZHANG, Yuan~ 33:US ~31:63/284,797 ~32:01/12/2021;33:US ~31:63/383,562 ~32:14/11/2022

2024/03019 ~ Complete ~54:THERAPEUTIC AND PREVENTIVE COMPOSITIONS ~71:CELLNUTRITION LTD, Unit 2, Westlink Commercial Park, Ireland ~72: EL HELOU, Rania;KELLEHER, John~ 33:GB ~31:2114802.8 ~32:15/10/2021;33:GB ~31:2204461.4 ~32:29/03/2022

2024/03027 ~ Complete ~54:PROCESS ~71:Assembly Biosciences, Inc., 331 Oyster Point Blvd, 4th Floor, SOUTH SAN FRANCISCO 94080, CA, USA, United States of America ~72: BEAUD, Rodolphe;JOHNSON, Mark;LAGOUTTE, Roman;WALLACE, Michael~ 33:US ~31:63/257,697 ~32:20/10/2021

2024/03005 ~ Complete ~54:PNEUMATIC JACK ~71:Michael Marx, 3 Maglin Place, Cruise Crescent, Rynfield, South Africa ~72: MARX, Michael;PURDON, John Gregory~ 33:ZA ~31:2023/04568 ~32:20/04/2023

2024/03007 ~ Complete ~54:METHOD AND SYSTEM FOR CONCENTRATING FLUOROSILICIC ACID SOLUTION ~71:GUIZHOU WENGFU LANTIAN FLUORCHEM CO., LTD, No. 11 Yingbin Road, Machangping Office, Fuquan City, Qiannan, Guizhou, 550500, People's Republic of China ~72: HAIBING LENG;HONGYING ZHANG;NAN ZHANG;SHENGBO FENG;WEI CHEN;XINGQIAN WU~ 33:CN ~31:202310422737.1 ~32:19/04/2023

2024/03024 ~ Complete ~54:GRATE PLATE FOR A PULP LIFTER OF A GRINDING MILL ~71:Metso Finland Oy, Rauhalanpuisto 9, ESPOO 02230, FINLAND, Finland ~72: VYORAL, Jakub~ 33:SE ~31:2151173-8 ~32:24/09/2021

2024/03029 ~ Complete ~54:FACTOR XI A2 DOMAIN-BINDING ANTIBODIES AND METHODS OF USE THEREOF ~71:Regeneron Pharmaceuticals, Inc., 777 Old Saw Mill River Road, TARRYTOWN 10591, NY, USA, United States of America ~72: CHALOTHORN, Dan;LAI, KehDih;MORTON, Lori~ 33:US ~31:63/270,629 ~32:22/10/2021

2024/03037 ~ Complete ~54:SOIL DETECTION DEVICE ~71:West Anhui University, Yueliang Island, Yunlu Bridge, Yu'an District, Lu'an, People's Republic of China ~72: Bao Huifang;Fang Jie;Wang Chuansheng;Wu Yuebo;Zhou Jian~ 33:CN ~31:202310985293.2 ~32:07/08/2023

2024/02996 ~ Provisional ~54:CHD-FA AS A NOVEL FEED ADDITIVE IN BROILERS ~71:NATRACINE UK LIMITED, Legh Coach House Wilmslow Road, Mottram St Andrew, Cheshire, SK10 4QH, United Kingdom ~72: DAVID NICHOLAS SQUIRE;STEWART JAMES CLARK~

2024/03018 ~ Complete ~54:METHODS AND SYSTEMS FOR BUILDING AND/OR USING A GRAPH DATA STRUCTURE ~71:XERO LIMITED, 19-23 Taranaki Street, New Zealand ~72: CHEAH, Soon-Ee;DRIDAN, Rebecca;PACE, Shannon;VANT, Kendra~ 33:AU ~31:2021903791 ~32:24/11/2021



2024/03000 ~ Complete ~54:PROCESS FOR THE PREPARATION OF OSMIUM SPONGE ~71:HERAEUS PRECIOUS METALS GMBH & CO. KG, Heraeusstraße 12-14, Germany ~72: GEORGE, Zipporah;JOUBERT, Johannes Albert Hendrik;MOCK, Dr. Christian;MPUHLU, Batsho;VAN TONDER, Waldo~

2024/03004 ~ Complete ~54:COMPREHENSIVE QUALITY MANAGEMENT SYSTEM AND METHOD FOR UNIVERSITY STUDENTS BASED ON BIG DATA ANALYSIS ~71:ZHENGZHOU YOMEI INTELLIGENT TECHNOLOGY CO., LTD., 6th Floor, Block B, No. 4 Building, Innovation Park, Henan University Science and Technology Park (East Zone), No. 289 West Third Ring Road, High tech Zone, Zhengzhou City,, People's Republic of China ~72: Guopeng LI;Lei YU;Lijun GUO;Zhong LI~ 33:CN ~31:2023110831617 ~32:25/08/2023

2024/03001 ~ Complete ~54:METHOD FOR FERMENTING AGRICULTURAL WASTES BY USING MIXED STRAINS ~71:Shandong Agriculture And Engineering University, 866 Nongganyuan Road, Licheng District, Jinan City, Shandong Province, People's Republic of China ~72: CUI Yonghui;DING Jie;DU Zhimin;LI Yang;LIU Jin;LIU Yanjiao;SHENG Yinsheng;SUN Xiaoming;ZHANG Rui;ZHANG Shuaiqi;ZHAO Jin~

2024/03012 ~ Complete ~54:DMP PROTEIN, ENCODING GENE AND USE THEREOF ~71:Biotechnology Research Institute, Chinese Academy of Agricultural Sciences, No.12 Zhongguancun South Street, Haidian District, People's Republic of China ~72: Lifang NIU;Lin HAO;Na WANG~ 33:CN ~31:202111225771.7 ~32:21/10/2021;33:WO ~31:PCT/CN2022/140182 ~32:20/12/2022

2024/03032 ~ Complete ~54:METHODS FOR PRODUCING HIGH PURITY AROMATICS FROM A MIXED AROMATIC FEED STREAM ~71:VIRENT, INC., 3571 Anderson Street, Madison, Wisconsin, 53704, United States of America ~72: BRICE DALLY;MATTHEW VAN STRATEN;PAUL G BLOMMEL~ 33:US ~31:63/255,812 ~32:14/10/2021

2024/03025 ~ Complete ~54:A SYNTHESIS SCHEME AND PROCEDURES FOR PREPARING A SIK3 INHIBITOR AND INTERMEDIATES THEREOF ~71:iOmx Therapeutics AG, Fraunhoferstrasse 22, MARTINSRIED 82152, GERMANY, Germany ~72: CANELLI, Tommaso;CARUANA, Lorenzo;MANGIOLA, Stefania;MARSEGLIA, Giuseppe;WANG, Wenke;ZHAO, Xianglin;ZHAO, Ziqiang~ 33:EP ~31:21203530.7 ~32:19/10/2021

2024/03028 ~ Complete ~54:AEROSOL PROVISION DEVICE ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: BURGESS, Jonathan Neil;ENGLAND, Will;MOLLISON-BALL, Lois;THOMAS, Michael~ 33:GB ~31:2115370.5 ~32:26/10/2021

2024/03036 ~ Complete ~54:HETERODIMERIC FC CYTOKINES AND USES THEREOF ~71:SYNTHEKINE, INC., 1505 O'Brien Drive, Suite D Menlo Park, California, 94025, United States of America ~72: DEEPTI ROKKAM;PATRICK J LUPARDUS~ 33:US ~31:63/257,913 ~32:20/10/2021

2024/02999 ~ Complete ~54:A STRAW-BASED WPC FLOORBOARD AND ITS FABRICATION PROCESS ~71:ANHUI HUAISU BUILDING MATERIALS CO., LTD., No. 188, Renhe Road, DongShili Circular Economy Park, Suzhou, People's Republic of China ~72: Bin SHAO;Jibing ZHANG;Peiyao FAN;Qiheng WU;Yu MIAO~ 33:CN ~31:2023104531901 ~32:25/04/2023

2024/03003 ~ Complete ~54:DIRECTION FINDING SYSTEM AND ANTENNA ARRAY ~71:ALARIS ANTENNAS (PTY) LTD, 1 Travertine Avenue, N1 Business Park, South Africa ~72: VALE, Christopher, Alfred, Wolfgang~ 33:NL ~31:2034779 ~32:08/05/2023

2024/03022 ~ Complete ~54:GIS-TYPE ZEOLITE, ADSORBENT, AND SEPARATION METHOD ~71:Asahi Kasei Kabushiki Kaisha, 1-1-2 Yurakucho, Chiyoda-ku, TOKYO 1000006, JAPAN, Japan ~72: OKUBO, Atsushi~ 33:JP ~31:2021-173424 ~32:22/10/2021

2024/03016 ~ Complete ~54:LSD DERIVATIVES, SYNTHESIS & METHOD FOR TREATMENT OF DISEASES AND DISORDERS ~71:BLIFE THERAPEUTICS INC., 1275 West 6th Avenue, Suite 300, Canada ~72: DUSPARA, Petar;GHAFFARI, Abdi;RUDGE, Scott;SHESHBARADARAN, Hooshmand;SODERMAN, Stefan~ 33:US ~31:63/246,290 ~32:20/09/2021;33:US ~31:63/341,388 ~32:12/05/2022

2024/03023 ~ Complete ~54:THRESHOLD SIGNATURE SCHEME ~71:nChain Licensing AG, Grafenauweg 6, ZUG 6300, SWITZERLAND, Switzerland ~72: PETTIT, Michaela~ 33:GB ~31:2115390.3 ~32:26/10/2021

2024/03031 ~ Complete ~54:METHOD INVOLVING A NEEDLE-BASED DEVICE WITH A SAFETY MECHANISM IMPLEMENTED THEREIN ~71:MEDIVENA SP. Z O.O., Al. Jana Pawla II 27, Warsaw, 00-867, Poland ~72: JAROSLAW MOLEDA~ 33:US ~31:17/494,904 ~32:06/10/2021

2024/03034 ~ Complete ~54:ATMOSPHERIC WATER GENERATION SYSTEM AND METHOD ~71:FRESHAPE SA, Avenue d'Epenex 4a, 1020, Renens, Switzerland ~72: CHIN LEE ONG;MATHIEU RUBI;SEBASTIÁN ALAGÓN CARRILLO~

2024/03021 ~ Complete ~54:ASSAYS FOR QUANTIFICATION OF ANTI-HPA-1A ANTIBODIES ~71:RALLYBIO IPA, LLC, 234 Church Street, Suite 1020, United States of America ~72: RAINVILLE SIROIS, Julien;REEVES, Jonathan;SHERIDAN, Douglas, L.~ 33:US ~31:63/276,861 ~32:08/11/2021

2024/03030 ~ Complete ~54:ANTIBODIES BINDING TO CD30 AND CD3 ~71:GENMAB A/S, Carl Jacobsens Vej 30, 2500, Valby, Denmark ~72: DAVID SATIJN;ESTHER C W BREIJ;FARSHID ALEMDEHY;KRISTEL KEMPER;PATRICK ENGELBERTS;SIMONE OOSTINDIE~ 33:EP ~31:21201712.3 ~32:08/10/2021

2024/03035 ~ Complete ~54:SUPPORT ELEMENT FOR SUPPORTING A SOLAR MODULE ~71:SCHLETTER INTERNATIONAL B.V., Herikerbergweg 88, 1101, Amsterdam, Netherlands ~72: CEDRIK ZAPFE;KORBINIAN BRAUNERSREUTHER;TILMANN ELSNER~ 33:DE ~31:10 2021 125 841.3 ~32:05/10/2021

- APPLIED ON 2024/04/19 -

2024/03084 ~ Complete ~54:APPARATUS FOR SERVICING A STRUCTURE ~71:RotoTech Pte Ltd., 100 Pasir Panjang Road, #05-08, SINGAPORE 118518, SINGAPORE, Singapore ~72: HARTOG, Simon~ 33:GB ~31:2113391.3 ~32:20/09/2021

2024/03052 ~ Complete ~54:WING CARGO PARACHUTE SYSTEM UTILIZING DYNAMIC BRAKING TO REDUCE OPENING SHOCK ~71:P.D. OF MIAMI, INC., 1300 East International Speedway Blvd., Suite 7, Deland, Florida, 32724, United States of America ~72: IGNATIUS KAPP;WILLIAM JOHN COE~ 33:US ~31:63/072,221 ~32:30/08/2020

2024/03059 ~ Complete ~54:SMALL MOLECULE INHIBITORS OF UBIQUITIN SPECIFIC PROTEASE 1 (USP1) AND USES THEREOF ~71:INSILICO MEDICINE IP LIMITED, 26th Floor, Three Exchange Square, 8 Connaught Place, Central, People's Republic of China ~72: LIU, Jinxin;LIU, Yingtao;QIN, Luoheng;WU, Jianping~ 33:CN ~31:PCT/CN2021/130289 ~32:12/11/2021;33:CN ~31:PCT/CN2022/123806 ~32:08/10/2022

2024/03065 ~ Complete ~54:METHOD OF PREPARING A SOLUTION FOR ACTIVATING PLATELETS ~71:MISZEWSKI, Alexandra Grace, 28 Brommaert Avenue, Constantia, South Africa ~72: MISZEWSKI, Alexandra Grace;PRETORIUS, Judey~ 33:ZA ~31:2021/07349 ~32:30/09/2021

2024/03073 ~ Complete ~54:SYSTEMS AND METHODS FOR ENHANCED RANDOM ACCESS PROCEDURE ~71:ZTE CORPORATION, ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan, Shenzhen, Guangdong, 518057, People's Republic of China ~72: HE HUANG;YUAN GAO~

2024/03078 ~ Complete ~54:BITSTREAM REPRESENTING AUDIO IN AN ENVIRONMENT ~71:Koninklijke Philips N.V., High Tech Campus 52, EINDHOVEN 5656 AG, THE NETHERLANDS, Netherlands ~72: KOPPENS, Jeroen Gerardus Henricus~ 33:EP ~31:21204639.5 ~32:26/10/2021

2024/03041 ~ Provisional ~54:RETAINING LID FOR A BEVERAGE CONTAINER CLOSURE ~71:JENSEN, Eugene, KLEIN ANTONIES FARM R301, BAINS KLOOF, 7656 WELLINGTON, SOUTH AFRICA, South Africa;PEEK, Johannes, Samuel, PORTION 2, MOUNTAIN REST, PAARL 7620, SOUTH AFRICA, South Africa ~72: JENSEN, Eugene;PEEK, Johannes, Samuel~

2024/03069 ~ Complete ~54:MUSCLE TARGETING COMPLEXES FOR TREATING FACIOSCAPULOHUMERAL MUSCULAR DYSTROPHY ~71:DYNE THERAPEUTICS, INC., 1560 Trapelo Road Waltham, Massachusetts, 02451, United States of America ~72: BRENDAN QUINN;CODY A DESJARDINS;JOHN NAJIM;MOHAMMED T QATANANI;NELSON HSIA;ROMESH R SUBRAMANIAN;SEAN SPRING;TIMOTHY WEEDEN~ 33:US ~31:63/278,882 ~32:12/11/2021;33:US ~31:63/278,993 ~32:12/11/2021;33:US ~31:63/312,617 ~32:22/02/2022;33:US ~31:63/312,633 ~32:22/02/2022

2024/03063 ~ Complete ~54:HERBICIDES AND USE THEREOF ~71:PROJINI AGCHEM LTD, Tel-Hai Industrial Park, Build 9 (Migal), Israel ~72: AMRAM, Eytan;BEN-SHUSHAN SHELLY, Rotem;BLOCH, Itai;COHEN, Elad;DOTAN, Nesly;GAL, Maayan~ 33:US ~31:63/254,193 ~32:11/10/2021

2024/03066 ~ Complete ~54:EQUIPMENT AND METHOD FOR COOPERATIVELY TREATING AQUACULTURE TAIL WATER BY ALGAE AND BACTERIA ~71:NANCHANG UNIVERSITY, No. 999, Xuefu Avenue, Honggutan New District, Nanchang, Jiangxi Province, People's Republic of China ~72: HONG Yijiang;HU Beijuan;LAI Xinxin;YU Guilan~ 33:CN ~31:202211254594X ~32:13/10/2022

2024/03071 ~ Complete ~54:MACROCYCLIC COMPOUNDS HAVING FARNESYLTRANSFERASE INHIBITORY ACTIVITY ~71:KURA ONCOLOGY, INC., 12730 High Bluff Drive, Suite 400, San Diego, California, 92130, United States of America ~72: DAN XU;PINGDA REN;WANTING XIONG;XUEFENG ZHU;YAHU ARTHUR LIU;ZHU BAI~ 33:CN ~31:202111442658.4 ~32:30/11/2021;33:US ~31:63/285,412 ~32:02/12/2021;33:CN ~31:202211471486.8 ~32:23/11/2022;33:US ~31:63/385,117 ~32:28/11/2022

2024/03080 ~ Complete ~54:METHODS AND SYSTEMS FOR DISTRIBUTED BLOCKCHAIN FUNCTIONALITIES ~71:nChain Licensing AG, Grafenauweg 6, ZUG 6300, SWITZERLAND, Switzerland ~72: WRIGHT, Craig Steven~ 33:GB ~31:2115511.4 ~32:28/10/2021;33:GB ~31:2115512.2 ~32:28/10/2021;33:GB ~31:2115516.3 ~32:28/10/2021;33:GB ~31:2115520.5 ~32:28/10/2021;33:GB ~31:2206634.4 ~32:06/05/2022;33:GB ~31:2206639.3 ~32:06/05/2022;33:GB ~31:2208799.3 ~32:15/06/2022;33:GB ~31:2209533.5 ~32:29/06/2022

2024/03044 ~ Complete ~54:A VISUAL DETECTION METHOD FOR INFECTIOUS HEMATOPOIETIC NECROSIS VIRUS AND ITS APPLICATION ~71:Xinjiang Agricultural University, No. 311 East Nongda Road, Shayibak District, Urumqi City, Xinjiang Uygur Autonomous Region, 830052, People's Republic of China ~72: Fengsiyue GAO;Huijun SHI;Junzhen CHEN;Li YANG;Qiang FU;Rezeguli-AIKEBAIER;Siqi MA;Yafang XU;Yingxin LI~

2024/03043 ~ Complete ~54:EFFICIENT AND SAFE GOLD MINE EXPLORATION METHOD AND SYSTEM ~71:CNNC GEOLOGIC PARTY NO.208, Block 9, Alding Street, Kundulun District, Baotou City, People's Republic of China ~72: LIU, Bo;WANG, Hui~ 33:CN ~31:2024102395432 ~32:01/03/2024

2024/03047 ~ Complete ~54:INTUMESCENT FLAME RETARDANT MATERIAL AND APPLICATION THEREOF ~71:Anhui Polytechnic University, No.8 Middle Beijing Road, Jiujiang District, Wuhu, Anhui Province, People's Republic of China ~72: FANG Yinchun;LIU Hailong;LIU Xinhua;TAO Weihai;ZHAO Xianglu~

2024/03053 ~ Complete ~54:AN ENGRAVING DEVICE USED IN ART DESIGN ~71:Yunnan Minzu University, No. 2929, Yuehua Street, Chenggong District, Kunming City, Yunnan Province, 650504, People's Republic of China ~72: Fan Wan;Hao Zhang;Long Jian;Meining Jiang;Rui Shi;Shaowei Wang;Xinyao Pu~

2024/03056 ~ Complete ~54:METHODS OF TREATING PATIENTS SUFFERING FROM BRAIN INJURY AND METHODS OF INCREASING THE VALUE OF THE EXTENDED GLASGOW OUTCOME SCALE OF PATIENTS SUFFERING FROM BRAIN INJURY ~71:VERINOS OPERATIONS GMBH, Friedrich-Bergius-Ring 15, Germany ~72: STOVER, John;TEGTMEIER, Frank~

2024/03048 ~ Complete ~54:A DECISION-MAKING METHOD FOR EFFICIENT EMERGENCIES RESCUE PORTS FOR ARCTIC MARITIME EMERGENCIES ~71:Dalian Maritime University, No.1 Linghai Road, Dalian City, Liaoning Province, 116026, People's Republic of China;Shanghai Ship and Shipping Research Institute Co.,Ltd, Floor 1, Building 21, No.600 Minsheng Road, Pudong New Area, Shanghai, 200131, People's Republic of China ~72: Bing HAN;Laihao MA;Liguang CHEN;Ting WANG;Weijie WU;Weiliang QIAO;Xiaoxue MA;Yulan ZHAO~ 33:CN ~31:2023104403814 ~32:23/04/2023

2024/03068 ~ Complete ~54:AN IN-SITU GELLING ENEMA OF RIFAMYCIN FOR TREATING POUCHITIS AND DISTAL ULCERATIVE COLITIS ~71:COSMO TECHNOLOGIES LTD, Riverside II Sir John Rogerson's Quay, Dublin, D02 KV60, Ireland ~72: CARIDAD ROSETTE;CRISTINA MACELLONI;LUIGI LONGO;MARA GERLONI~ 33:US ~31:63/252,315 ~32:05/10/2021;33:EP ~31:21203010.0 ~32:15/10/2021

2024/03070 ~ Complete ~54:BARBECUE GRILL BRUSH ~71:SCRUB DADDY, INC., 1700 Suckle Highway, Pennsauken, New Jersey, 08110, United States of America ~72: AARON C KRAUSE;ALEKSANDRS TITOV;JOHN O'BRIEN~ 33:US ~31:63/310,220 ~32:15/02/2022

2024/03081 ~ Complete ~54:RNAI CONSTRUCTS FOR INHIBITING GPAM EXPRESSION AND METHODS OF USE THEREOF ~71:Amgen Inc., One Amgen Center Drive, THOUSAND OAKS 91320-1799, CA, USA, United States of America ~72: LONG, Jason C.;MEADE, Bryan;MURRAY, Justin K.;RULIFSON, Ingrid~ 33:US ~31:63/270,813 ~32:22/10/2021

2024/03040 ~ Provisional ~54:FLOORING PRODUCT ~71:FLOORFLEX (PTY) LTD., Building Block B, 3rd floor, One Sturdee., 1 Sturdee Avenue, ROSEBANK, Johannesburg 2047, Gauteng, SOUTH AFRICA, South Africa ~72: HALLS, Andrew Leslie~

2024/03075 ~ Complete ~54:RECOVERY OF RECYCLE CONTENT CO<sub>2</sub> FROM PYROLYSIS FLUE GAS ~71:Eastman Chemical Company, 200 South Wilcox Drive, KINGSPORT 37660, TN, USA, United States of America ~72: ANDERSON, Avery L.;BITTING, Daryl;POLASEK, Michael Gary;SLIVENSKY, David Eugene;WU, Xianchun~ 33:US ~31:63/261,423 ~32:21/09/2021

2024/03079 ~ Complete ~54:INTERLEUKIN-2 MUTANT AND FUSION PROTEIN THEREOF ~71:Fortvita Biologics (Singapore) Pte. Ltd., 38 Beach Road, #29-11 South Beach Tower, SINGAPORE, Singapore ~72: FU, Fenggen;GUAN, Jian;HE, Kaijie;WU, Weiwei;ZHOU, Shuaixiang~ 33:CN ~31:202111110032.3 ~32:22/09/2021

2024/03049 ~ Complete ~54:A WATER-ABSORBING FERTILIZER FOR HIGH-ALKALINE SANDY SOIL FOR PIGMENT CHILI PEPPERS AND ITS PREPARATION METHOD ~71:Xinjiang University, No.666 Shengli Road, Tianshan District, Urumqi, People's Republic of China ~72: A Gengxiong;Ma Shangwen;Ren Tiezhen;Yuan Xinhua~ 33:CN ~31:2024104349301 ~32:11/04/2024

2024/03060 ~ Complete ~54:COMPOSITIONS AND METHODS FOR MODULATING APOC3 EXPRESSION ~71:DICERNA PHARMACEUTICALS, INC, 75 Hayden Avenue, Lexington, United States of America ~72: BROWN, Bob Dale;DUDEK, Henryk;HAN, Wen;SAXENA, Utsav~ 33:US ~31:63/264,730 ~32:01/12/2021

2024/03064 ~ Complete ~54:ALUMINUM FOIL LIDDING AND METHOD OF MAKING THE SAME ~71:BABU KOTIAN, Chandrahas, 301, A WING, SIDDHIVINAYAK TOWERS, DEVKA ROAD, India ~72: BABU KOTIAN, Chandrahas~ 33:IN ~31:202121042793 ~32:21/09/2021

2024/03058 ~ Complete ~54:UNIQUENESS OF PDU SESSION ID IN A COMMUNICATIONS NETWORK ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83, Sweden ~72: GAN, Juying;LU, Yunjie~ 33:CN ~31:PCT/CN2021/127618 ~32:29/10/2021

2024/03074 ~ Complete ~54:METHODS OF TREATING ABNORMAL CELL GROWTH ~71:VERASTEM, INC., 117 Kendrick Street, Suite 500, Needham, Massachusetts, 02494, United States of America ~72: ANDREW KOUSTENIS;BRIAN M STUGLIK;JONATHAN A PACHTER;SILVIA COMA~ 33:US ~31:63/274,745 ~32:02/11/2021

2024/03085 ~ Complete ~54:APPARATUS AND METHOD FOR SUPPORTING A COLLAR REGION OF A BLAST HOLE DURING DRILLING ~71:AQUIRIAN TECHNOLOGY PTY LTD, Level 5, 190 St Georges Terrace, Perth, Australia ~72: PATCHING, Gregory;WRIGHT, Jonathan~ 33:AU ~31:2021903123 ~32:29/09/2021;33:AU ~31:2021904057 ~32:14/12/2021

2024/03057 ~ Complete ~54:BIOLOGICAL AGENT OF BACILLUS AMYLOLIQUEFACIENS AND APPLICATION THEREOF IN PREVENTION AND TREATMENT OF SOIL-BORNE DISEASES OF SOLANUM TUBEROSUM ~71:NORTHEAST AGRICULTURAL UNIVERSITY, NO. 600 CHANGJIANG ROAD, People's Republic of China ~72: HE, Fumeng;LI, Fenglan;LIU, Dan;PANG, Wenyuan;WANG, Xue;ZHANG, Ying~

2024/03061 ~ Complete ~54:SMALL MOLECULE INHIBITORS OF UBIQUITIN SPECIFIC PROTEASE 1 (USP1) AND USES THEREOF ~71:INSILICO MEDICINE IP LIMITED, 26th Floor, Three Exchange Square, 8 Connaught Place, Central, People's Republic of China ~72: LIU, Jinxin;QIN, Luoheng;WU, Jianping~ 33:CN ~31:PCT/CN2021/130290 ~32:12/11/2021;33:CN ~31:PCT/CN2022/123827 ~32:08/10/2022

2024/03042 ~ Provisional ~54:RETAILER CASH HANDLING SYSTEM AND METHOD ~71:SBV SERVICES (PROPRIETARY) LIMITED, SBV House, Corner of 11th Avenue and 8th Street, Houghton, JOHANNESBURG 2198, Gauteng, SOUTH AFRICA, South Africa ~72: NAUDE, Leonard Louw~

2024/03045 ~ Complete ~54:CLOSING FORMING METHOD FOR LARGE VOLUME THIN-WALLED STEEL LINER ~71:Sinoma Science & Technology (Chengdu) Co., Ltd, No.136 Pingtang East Road, Puxing Street (New Material Industry Functional Zone), Xinjin District, Chengdu, Sichuan, 611434, People's Republic of China ~72: FENG Cunjiang;HE Jiachao;HE Qinling;LI Shihong;QI Na;TANG Yong;YANG Chunmei;YI Hao~ 33:CN ~31:2023104531583 ~32:25/04/2023

2024/03051 ~ Complete ~54:PILE HOLDER CAPABLE OF MAINTAINING VERTICALITY OF PILE BODY AND OPERATING METHOD THEREOF ~71:Tianjin University, No.135 Yaguan Road, Jinnan District, Tianjin, 300354, People's Republic of China ~72: JIA Zhaolin;LI Chengfeng;LIAN Jijian;LIU Run;LIU Yufei;SU Chunyang;YUAN Xinyong~

2024/03055 ~ Complete ~54:IMMUNOCOMB DETECTION METHOD AND KIT FOR MONKEY 8 VIRUS ANTIBODY ~71:HAIKOU CUSTOMS TECHNOLOGY CENTRE, 9th to 16th Floors, East Building, No. 165 Haixiu West Road, Xiuying District, Haikou, People's Republic of China;NANNING CUSTOMS TECHNOLOGY CENTRE, No. 20 Tiqiang Road, Liangqing District, Nanning City, People's Republic of China ~72: CAI, Weikai;CHAO, Zhe;CHEN, Lijun;CHEN, Yiwei;DING, Yangbao;GAO, Shenyang;LI, Dandan;LI, Jiatong;LIU, Chuang;QIU, Suoping;TIAN, Chaoyang;WANG, Chaozheng;WEI, Ying~



2024/03046 ~ Complete ~54:INTELLIGENT ONLINE DIAGNOSIS SYSTEM FOR POWER TRANSFORMATION AND DISTRIBUTION EQUIPMENT ~71:Kechang Electric Co., Ltd, North Wenming Road, Xushui Economic Development Zone, Xushui District, Baoding City, Hebei Province, People's Republic of China ~72: GUO Jingjing;LI Suhuan;LIAN Yingxin;LIU Baihui;LIU Chang;QIAO Yiyang;WAN Zhaoying;WANG Kaiqing;WANG Zhijiang;ZHANG Lijun;ZHENG Haixia~

2024/03072 ~ Complete ~54:COMBINATION THERAPY FOR TREATING ABNORMAL CELL GROWTH ~71:VERASTEM, INC., 117 Kendrick Street, Suite 500, Needham, Massachusetts, 02494, United States of America ~72: JONATHAN A PACHTER;SANJIB CHOWDHURY;SILVIA COMA~ 33:US ~31:63/272,899 ~32:28/10/2021

2024/03082 ~ Complete ~54:O-GLCNACASE (OGA) INHIBITOR COMBINATION THERAPY ~71:Eli Lilly and Company, Lilly Corporate Center, INDIANAPOLIS 46285, IN, USA, United States of America ~72: BIGLAN, Kevin;FLEISHER, Adam S.;MERGOTT, Dustin James;NUTHALL, Hugh N.~ 33:US ~31:63/270,820 ~32:22/10/2021

2024/03083 ~ Complete ~54:RUBBER COMPOSITIONS ~71:Bridgestone Europe NV/SA, Kleine Kloosterstraat 10, ZAVENTEM 1932, BELGIUM, Belgium ~72: FRESCH, Enrico~ 33:EP ~31:21204228.7 ~32:22/10/2021

2024/03077 ~ Complete ~54:SOLVENTS AND METHODS FOR LEACHING PRECIOUS METALS ~71:pH7 Technologies Inc., 104-5497 Regent Street, BURNABY V5C 4H4, BRITISH COLUMBIA, CANADA, Canada ~72: DOOSTMOHAMMADI, Mohammad;MOGHADAM ZADEH, Sanaz;ROBERTS, Ryan John~ 33:US ~31:63/271,034 ~32:22/10/2021

2024/03087 ~ Complete ~54:DAMPING ASSEMBLY FOR WIND TURBINES ~71:WINDSUN PTE LTD, C/- Michael Buck IP, PO Box 78, Australia ~72: HOFFMANN, Rolf~ 33:AU ~31:2021903387 ~32:22/10/2021

2024/03050 ~ Complete ~54:A PROSTHETIC LIMB WITH A GROUND STATE FEEDBACK DATA ACQUISITION SYSTEM ~71:Zhejiang Wanli University, No. 8, Qianhu South Road, Yinzhou District, Ningbo City, Zhejiang Province, 315100, People's Republic of China ~72: Bowen Xue;Haonan Li;Jin Jin;Yufei Kong;Zebin Zhou~

2024/03062 ~ Complete ~54:QUALITY OF EXPERIENCE MEASUREMENT ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: HE, Jing;PING, Jing;TOMALA, Malgorzata~

2024/03067 ~ Complete ~54:NOVEL SPIRO COMPOUND ~71:mitsubishi tanabe pharma CORPORATION, 2-10, Dosho-machi 3-chome Chuo-ku Osaka-shi, Osaka, 5418505, Japan ~72: AKIRA NAKAO;KENJI FUKUNAGA;MASAYA IKUBO;MINAMI NAGAOKA;NORIMITSU HAYASHI;RENTAROU KANNO;SHINGO OGATA;TAKAHIRO YAMADA~ 33:JP ~31:2021-177933 ~32:29/10/2021

2024/03076 ~ Complete ~54:RECOVERY OF RECYCLE CONTENT CO<sub>2</sub> FROM PYROLYSIS GAS ~71:Eastman Chemical Company, 200 South Wilcox Drive, KINGSPORT 37660, TN, USA, United States of America ~72: ANDERSON, Avery L.;BITTING, Daryl;POLASEK, Michael Gary;SLIVENSKY, David Eugene;WU, Xianchun~ 33:US ~31:63/261,427 ~32:21/09/2021

2024/03086 ~ Complete ~54:SHORT-CONTACT REACTOR, AND SYSTEM AND METHOD FOR USING SAME IN PREPARATION OF ETHYLENE AND PROPYLENE FROM METHANOL ~71:CHINA PETROLEUM & CHEMICAL CORPORATION, 22 Chaoyangmen North Street, Chaoyang District, People's Republic of China;SHANGHAI RESEARCH INSTITUTE OF PETROCHEMICAL TECHNOLOGY, SINOPEC, 1658 Pudong Bei Road, Pudong New Area, People's Republic of China ~72: LI, Xiaohong;PENG, Fei;QI, Guozhen;WANG, Hongtao;YU, Zhinan;ZHENG, Yijun~ 33:CN ~31:202111150391.1 ~32:29/09/2021

2024/03054 ~ Complete ~54:SLOPE DEFORMATION AND SOFT SOIL FOUNDATION SETTLEMENT PREDICTION METHOD BASED ON GA-BP NEURAL NETWORK ~71:Yin Tianyi, 8 concertina street , Lawson , ACT, 2617, Australia ~72: Liu Jie;Shuai Yuying;Tang Xiya;Yin Tianyi;Yin Tianyi

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

Application Number	Assignor	Assignee
2023/11615	DONGGUAN CITY UNIVERSITY	MACAO POLYTECHNIC UNIVERSITY and DONGGUAN CITY UNIVERSITY
2017/02621	FLSMIDTH A/S	KOCH SOLUTIONS GMBH
2018/04840	FLSMIDTH A/S	KOCH SOLUTIONS GMBH
2016/04591	FLSMIDTH A/S	KOCH SOLUTIONS GMBH
2011/03995	FLSMIDTH A/S	KOCH SOLUTIONS GMBH
2023/06695	FLSMIDTH A/S	KOCH SOLUTIONS GMBH
2015/08583	FLSMIDTH A/S	KOCH SOLUTIONS GMBH
2020/02004	FLSMIDTH A/S	KOCH SOLUTIONS GMBH
2020/01996	FLSMIDTH A/S	KOCH SOLUTIONS GMBH
2018/05669	FLSMIDTH A/S	KOCH SOLUTIONS GMBH
2023/08368	KOMATSU K VX LLC NUF	HENSLEY INDUSTRIES INC.
2022/00271	KOMATSU K VX LLC NUF	HENSLEY INDUSTRIES INC.
2022/01398	JIANGXI NORMAL UNIVERSITY	JIANGXI LIANPU PEOPLE AGRICULTURAL SCIENCE AND TECHNOLOGY CO., LTD
2020/01614	WATERSHED SOLAR LLC	WATERSHED GEOSYNTHETICS LLC
2019/06042	WATERSHED SOLAR LLC	WATERSHED GEOSYNTHETICS LLC
2020/03281	AMPLYX PHARMACEUTICALS, INC.	BASILEA PHARMACEUTICA INTERNATIONAL AG, ALLSCHWIL
2021/01555	AMPLYX PHARMACEUTICALS, INC.	BASILEA PHARMACEUTICA INTERNATIONAL AG, ALLSCHWIL
2020/02562	HEBERLEIN AG	RN ACQUI V SA
2020/02562	RN ACQUI V SA	HEBERLEIN TECHNOLOGY AG
2022/07493	Z FACTOR LIMITED	CENTESSA PHARMACEUTICALS (UK) LIMITED
2021/03977	Z FACTOR LIMITED	CENTESSA PHARMACEUTICALS (UK) LIMITED
2022/07491	Z FACTOR LIMITED	CENTESSA PHARMACEUTICALS (UK) LIMITED
2022/07494	Z FACTOR LIMITED	CENTESSA PHARMACEUTICALS (UK) LIMITED
2022/07492	Z FACTOR LIMITED	CENTESSA PHARMACEUTICALS (UK) LIMITED
2022/07495	Z FACTOR LIMITED	CENTESSA PHARMACEUTICALS (UK) LIMITED
2011/03232	UNILIN, BV	FLOORING INDUSTRIES LIMITED, SARL
2021/02611	BARTH INNOVATIONS LIMITED	BARTH-HAAS UK LIMITED
2020/06181	CHINOIN GYOGYSZER ES VEGYESZETI TERMEKEK GYARA ZRT	EUROAPI HUNGARY LIMITED LIABILITY COMPANY
2023/08916	EDICO GENOME, CORP.	ILLUMINA SOFTWARE, INC.
2023/08916	ILLUMINA SOFTWARE, INC.	ILLUMINA, INC.
2017/02374	CHINOIN GYOGYSZER ES VEGYESZETI TERMEKEK GYARA ZRT	EUROAPI HUNGARY LIMITED LIABILITY COMPANY

Application Number	Assignor	Assignee
2019/02248	BARTH INNOVATIONS LIMITED	BARTH-HAAS UK LIMITED
2020/04936	CHINOIN GYOGYSZER ES VEGYESZETI TERMEKEK GYARA ZRT	EUROAPI HUNGARY LIMITED LIABILITY COMPANY
2018/03949	EDICO GENOME, CORP.	ILLUMINA SOFTWARE, INC.
2018/03949	ILLUMINA SOFTWARE, INC.	ILLUMINA, INC.
2022/10297	EDICO GENOME, CORP.	ILLUMINA SOFTWARE, INC.
2022/10297	ILLUMINA SOFTWARE, INC.	ILLUMINA, INC.
2020/04628	ANUVIA PLANT NUTRIENTS HOLDINGS, INC.	PROFILE PRODUCTS LLC
2020/04629	ANUVIA PLANT NUTRIENTS HOLDINGS, INC.	PROFILE PRODUCTS LLC
2023/01273	HEBEI HAILI FRAGRANCES CO., LTD	HEBEI DAWN LEE NEW MATERIAL CO., LTD.
2022/13913	INSTITUTE OF ANIMAL SCIENCE AND VETERINARY MEDICINE, SHANDONG ACADEMY OF AGRICULTURAL SCIENCES	GREENFOOD AGRICULTURAL AND LIVESTOCK CO., LTD
2022/07364	XI'AN AERONAUTICAL POLYTECHNIC INSTITUTE	SHANXI MAOYUAN NEW ENERGY TECHNOLOGY CO., LTD
2008/07283	MECHLIFT INVESTMENTS PTY LTD	RAMM TECHNOLOGIES PTY LTD
2021/10118	FOG FELLOW DESIGNS LTD	THE FILTA GROUP LIMITED
2023/03244	SPEXIS AG and UNIVERSITAT ZURICH	BASILEA PHARMACEUTICA INTERNATIONAL AG, ALLSCHWIL and UNIVERSITAT ZURICH
2017/03222	PFEIFFER, KNUT	IMPULS7 GMBH
2019/07519	THYSSENKRUPP INDUSTRIAL SOLUTIONS AG, and THYSSENKRUPP AG	THYSSENKRUPP UHDE GMBH, and THYSSENKRUPP AG
2020/06190	BIOHAVEN PHARMACEUTICAL IRELAND DAC	PFIZER IRELAND PHARMACEUTICALS
2012/04182	EUREKA! AGRESEARCH (VIC) PTY LTD	ELDERS TOLL FORMULATION PTY LTD
2017/03443	KALMARN LIMITED	TONISITY INTERNATIONAL LIMITED
2023/05487	HUBBLE LITHIUM (PTY) LTD	HUBBLE ENERGY (PTY) LTD
2021/06519	HISTOGEN INC.	GENOME OPINION, INC.
2023/11558	TAIYUAN UNIVERSITY OF TECHNOLOGY	XINGXIAN ECONOMIC DEVELOPMENT ZONE ALUMINIUM MAGNESIUM NEW MATERIAL R&D CO., LTD and TAIYUAN UNIVERSITY OF TECHNOLOGY
2012/03367	ACASTI PHARMA, INC.	AKER BIOMARINE HUMAN INGREDIENTS AS
2023/11670	LG ELECTRONICS INC.	GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
2021/05106	LG ELECTRONICS INC.	GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
2022/10842	LG ELECTRONICS INC.	GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
2023/00109	JIWEI ZHUGONG (HEBEI) BUILDING MATERIALS TECHNOLOGY., LTD	SUN, SHILIN
2019/05413	PHOENIX LLC	SHINE TECHNOLOGIES, LLC
2012/02418	JOHANNES GUTENBERG-	TRON – TRANSLATIONALE ONKOLOGIE AN

Application Number	Assignor	Assignee
	UNIVERSITAT MAINZ	DER UNIVERSITÄTSMEDIZIN DER JOHANNES GUTENBERG-UNIVERSITÄT MAINZ GEMEINNUTZIGE GMBH
2012/02418	GANYMED PHARMACEUTICALS GMBH	ASTELLAS PHARMA INC.
2015/09115	GANYMED PHARMACEUTICALS GMBH	ASTELLAS PHARMA INC.
2011/05471	JOHANNES GUTENBERG-UNIVERSITÄT MAINZ	TRON – TRANSLATIONALE ONKOLOGIE AN DER UNIVERSITÄTSMEDIZIN DER JOHANNES GUTENBERG-UNIVERSITÄT MAINZ GEMEINNUTZIGE GMBH
2011/05471	GANYMED PHARMACEUTICALS GMBH	ASTELLAS PHARMA INC.
2013/07102	JOHANNES GUTENBERG-UNIVERSITÄT MAINZ	TRON – TRANSLATIONALE ONKOLOGIE AN DER UNIVERSITÄTSMEDIZIN DER JOHANNES GUTENBERG-UNIVERSITÄT MAINZ GEMEINNUTZIGE GMBH
2013/07102	GANYMED PHARMACEUTICALS GMBH	ASTELLAS PHARMA INC.
2022/00678	ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY	SUZHOU HANSEE NEW MATERIAL TECHNOLOGY CO., LTD
2019/01145	ADVANCED NEW TECHNOLOGIES CO., LTD.	ADVANCED NOVA TECHNOLOGIES (SINGAPORE) HOLDING PTE. LTD.
2019/02948	ADVANCED NEW TECHNOLOGIES CO., LTD.	ADVANCED NOVA TECHNOLOGIES (SINGAPORE) HOLDING PTE. LTD.

**CHANGE OF NAME IN TERMS OF REGULATION 39**

Application Number	In the name of	New name
2019/07837	PUBLIC JOINT STOCK COMPANY "MASHINOSTROITELNY ZAVOD"	JOINT STOCK COMPANY "MASHINOSTROITELNY ZAVOD"
2010/02343	NOKIA SIEMENS NETWORKS OY	NOKIA SOLUTIONS AND NETWORKS OY
2024/00652	EEKOWALL UNLIMITED	EEKOWALL LIMITED
2024/00693	EEKOWALL UNLIMITED	EEKOWALL LIMITED
2024/00691	EEKOWALL UNLIMITED	EEKOWALL LIMITED
2023/06953	HERAEUS DEUTSCHLAND GMBH & CO. KG	HERAEUS PRECIOUS METALS GMBH & CO. KG.
2012/02418	GANYMED PHARMACEUTICALS AG	GANYMED PHARMACEUTICALS GMBH
2015/09115	GANYMED PHARMACEUTICALS AG	GANYMED PHARMACEUTICALS GMBH
2015/09115	BIONTECH AG	BIONTECH SE
2011/05471	GANYMED PHARMACEUTICALS AG	GANYMED PHARMACEUTICALS GMBH
2013/07102	GANYMED PHARMACEUTICALS AG	GANYMED PHARMACEUTICALS GMBH

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

No records available

**PATENT APPLICATIONS ABANDONED OR WITHDRAWN**

Application Number	Not Open	Date
2023/04033	WITHDRAWN	03/04/2024

**APPLICATION FOR THE RESTORATION OF A LAPSED PATENT**

THE PATENTS ACT, No. 57 OF 1978

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

Notice is hereby given that **EXOSANA S.A**, whose address for service is **SPOOR & FISHER, 11 BYLS BRIDGE BOULEVARD, BUILDING 14, HIGHFELD EXT 73, CENTURION. PRETORIA** has applied to the registrar for the restoration of Patent No **2010/06337** entitled **SYNCHRONIZED WATER AND PRODUCTION AND USE THEREOF**, dated **03/09/2010**, which lapsed on **13/02/2023** owing to the non-payment of the prescribed renewal fee.

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

Notice is hereby given that **LAND LAYBY TECHNOLOGIES LIMITED** whose address for service is **EDWARD NATHAN SONNENBERGS, RANDBURG** has applied to the registrar for the restoration of Patent No **2020/06918** entitled **ASSET TRANSACTION SYSTEM AND METHOD**, dated **24/12/2018**, which lapsed on **24/12/2022** owing to the non-payment of the prescribed renewal fee.

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

Notice is hereby given that **LOXO ONCOLOGY, INC**, whose address for service is **ADAMS & ADAMS, PRETORIA** has applied to the registrar for the restoration of Patent No **2021/07472** entitled **COMPOUNDS USEFUL AS KINASE INHIBITORS** dated **16/12/2016**, which lapsed on **16/12/2020** owing to the non-payment of the prescribed renewal fee.

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

Notice is hereby given that **COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES, and ARCELORMITTAL** whose address for service is **VON SEIDELS, CAPE TOWN** has applied to the registrar for the restoration of Patent No **2020/05101** entitled **FLATNESS ROLLER, SYSTEM FOR MEASURING FLATNESS AND LINE FOR ASSOCIATED ROLLING OPERATIONS**, dated **19/02/2019**, which lapsed on **19/02/2023** owing to the non-payment of the prescribed renewal fee.



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

---

Notice is hereby given that **VICTAULIC COMPANY** whose address for service is **VON SEIDELS, CAPE TOWN** has applied to the registrar for the restoration of Patent No **2020/05652** entitled **SPRUNG COUPLING**, dated **15/05/2017**, which lapsed on **31/02/2023** owing to the non-payment of the prescribed renewal fee.

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

---

Notice is hereby given that **OHANESIAN, VIKEN** whose address for service is **MARGO ATTORNEYS, INC; JOHANNESBURG** has applied to the registrar for the restoration of Patent No **2022/01156** entitled **STRUCTURAL WALL PANEL SYSTEM**, dated **24/07/2020**, which lapsed on **24/07/2023** owing to the non-payment of the prescribed renewal fee.

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

---

Notice is hereby given that **BONGEZWENI DAVID SALIWE** whose address for service is **1512 MOEDING STREET, WESSELSBROM** has applied to the registrar for the restoration of Patent No **2013/04258** entitled **A RAILWAY TRACK SWITCH**, dated **10/06/2013**, which lapsed on **10/06/2022** owing to the non-payment of the prescribed renewal fee.

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

---

Notice is hereby given that **REGENERON PHARMACEUTICALS, INC.** whose address for service is **DM KISCH INC, SANDTON** has applied to the registrar for the restoration of Patent No **2018/05369** entitled **MICE EXPRESSING A LIMITED IMMUNOGLOBULIN LIGHT CHAIN REPERTOIRE**, dated **13/03/2014**, which lapsed on **25/08/2021** owing to the non-payment of the prescribed renewal fee.

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

---

#### THE PATENTS ACT, No. 57 OF 1978

##### VOLUNTARY SURRENDER OF A PATENT UNDER SECTION 64 (1), REGULATION 67 OF THE ACT

No records available

##### APPLICATION FOR THE CORRECTION OF A PATENT IN TERMS OF SECTION 50 OF THE ACT

#### THE PATENTS ACT, No. 57 OF 1978

##### APPLICATION FOR THE CORRECTION IN TERMS OF SECTION 50.

**Applicant: EAGLE BIOLOGICS, INC.** of 1 KENDALL SQUARE, BUILDING 1400, SUITE 301, CAMBRIDGE, MASSACHUSETTS, 02139 UNITED STATES OF AMERICA. Request permission to correct or to amend any patent, application for a patent or document lodged in pursuance of such application or in the register of Patent no: **2016/01968** a filing date of **22 MARCH 2016** entitled: **LIQUID PROTEIN FORMULATIONS CONTAINING VISCOSITY-LOWERING AGENTS**

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

Any notice of opposition (on form no. 19) must be lodged at the Patent Office within 2 months from the date hereof.

---

**Applicant: EAGLE BIOLOGICS, INC.** of 1 KENDALL SQUARE, BUILDING 1400, SUITE 301, CAMBRIDGE, MASSACHUSETTS, 02139 UNITED STATES OF AMERICA. Request permission to correct or to amend any patent, application for a patent or document lodged in pursuance of such application or in the register of Patent no: **2018/02108** a filing date of **03 APRIL 2018** entitled: **LIQUID PROTEIN FORMULATIONS CONTAINING VISCOSITY-LOWERING AGENTS**

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

Any notice of opposition (on form no. 19) must be lodged at the Patent Office within 2 months from the date hereof.

---

#### APPLICATIONS TO AMEND SPECIFICATION

THE PATENTS ACT, 1978

#### APPLICATIONS TO AMEND SPECIFICATION

**Applicant: EAGLE BIOLOGICS, INC.** of 47 MOULTON STREET, CAMBRIDGE, MASSACHUSETTS, 02138, UNITED STATES OF AMERICA. Request permission to amend the specification of letters patent no: **2021/02906** of **30 APRIL 2021** for **LIQUID PROTEIN FORMULATIONS CONTAINING VISCOSITY-LOWERING AGENTS**

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

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

---

**Applicant: BIOMEA FUSION, LLC** of 926B EMERSON STREET, PALO ALTO, CALIFORNIA, 94301, UNITED STATES OF AMERICA. Request permission to amend the specification of letters patent no: **2021/03912** of **7 JUNE 2021** for **IRREVERSIBLE INHIBITORS OF MENIN-MLL INTERACTION**

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

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

**Registrar of Patents**

---

**Applicant: QUALCOMM INCORPORATED Attn: International IP Administration, 5775 Morehouse Drive, San Diego, California, 92121-1714.** Request permission to amend the specification of letters patent no: **2012/01602** of **02/03/2012** for **EXTENSION OF UE-RS TO DWPTS**.

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

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

**Registrar of Patents**

---

**Applicant: QUALCOMM INCORPORATED Attn: International IP Administration, 5775 Morehouse Drive, San Diego, California, 92121-1714.** Request permission to amend the specification of letters patent no: **2011/09331** of **19/12/2011** for **TRANSACTION 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 lodged at the Patent Office within two months from the date hereof.

**Registrar of Patents**

---

**Applicant: QUALCOMM INCORPORATED Attn: International IP Administration, 5775 Morehouse Drive, San Diego, California, 92121-1714.** Request permission to amend the specification of letters patent no: **2011/06204** of **23/08/2011** for **CLOSED-LOOP POWER CONTROL IN MULTI-CARRIER HIGH-SPEED UPLINK PACKET ACCESS**.

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

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

**Registrar of Patents**

---

**Applicant: QUALCOMM INCORPORATED, 5775 Morehouse Drive, San Diego, California, 92121-1714.** Request permission to amend the specification of letters patent no: **2011/02251** of **25/03/2011** for **SYNCHRONIZING BEARER CONTEXT**.

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

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

**Registrar of Patents**

---

**Applicant: QUALCOMM INCORPORATED Attn: International IP Administration, 5775 Morehouse Drive, San Diego, California, 92121-1714.** Request permission to amend the specification of letters patent no: **2012/08137** of **29/10/2012** for **MIXED TAP FILTERS**.

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

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

**Registrar of Patents**

---

**INSPECTION OF SPECIFICATIONS**

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

**COPIES OF DOCUMENTS**

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

Photocopies: **R1, 00 per page**

**COMPLETE SPECIFICATIONS ACCEPTED AND ABRIDGEMENTS OR ABSTRACTS THEREOF**

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

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

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

The numerical references denote the following: **(21)** Number of application. **(22)** Date of application. **(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: 2015/06245. 22: 2015/08/26. 43: 2024/03/25

51: A61F

71: SMITH & NEPHEW, INC., UNIVERSITY OF MASSACHUSETTS

72: DUNN, Raymond, M., HARTWELL, Edward, Yerbury, HICKS, John, Kenneth, HUDDLESTON, Elizabeth, Mary, SAXBY, Carl

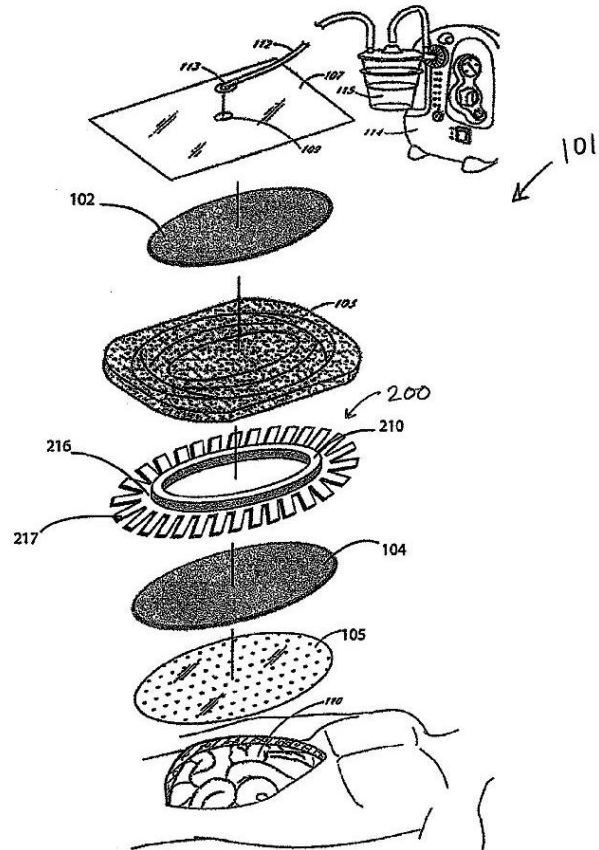
33: US 31: 61/780,660 32: 2013-03-13

33: US 31: 61/891,587 32: 2013-10-16

**54: NEGATIVE PRESSURE WOUND CLOSURE DEVICE AND SYSTEMS AND METHODS OF USE IN TREATING WOUNDS WITH NEGATIVE PRESSURE**

00: -

Certain embodiments described herein are directed to an elongated layer of material and a lip to be placed in contact with a wound and the elongated layer of material to be wrapped around a wound filler, their methods of use and systems incorporating the same, wherein the wound filler lip is configured to be positioned beneath the fascia. Additionally, some embodiments described herein are directed to the closure of the wound and the use of attachment mechanisms on the elongate layer and lip to attach to the wound surface.



21: 2016/08034. 22: 2016/11/21. 43: 2024/04/10

51: E21D; F16K

71: HOLFELD, Barry Graeme

72: HOLFELD, Barry Graeme

33: ZA 31: 2015/06124 32: 2015-08-24

**54: VALVE ASSEMBLY**

00: -

An adaptor, for use with a filler valve, which is made from a plastics material and which is engageable with a coupler, connected to a pressurised fluid, and a retention formation which secures the adaptor to the filler valve and which breaks when the pressure in the filler valve is at a predetermined level.



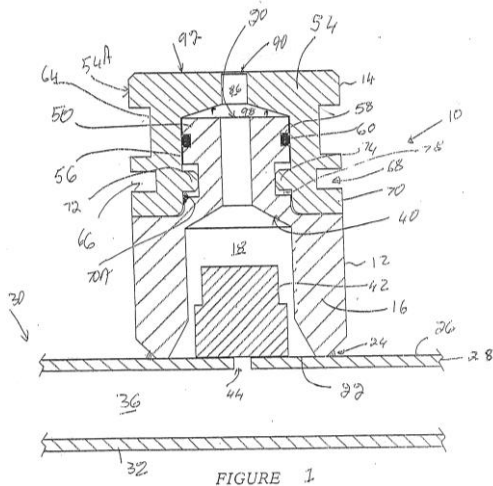


FIGURE 1

21: 2016/08257. 22: 2016/11/29. 43: 2024/02/08

51: A61K; C12N

71: THE PIRBRIGHT INSTITUTE

72: ABRAMS, CHARLES, REIS, ANNA-LUISA, NETHERTON, CHRIS, DIXON, LINDA, CHAPMAN, DAVE, SANCHEZ-CORDON, PEDRO

33: GB 31: 1410971.4 32: 2014-06-19

**54: ATTENUATED AFRICAN SWINE FEVER VIRUS VACCINE**

00: -

The present invention provides an attenuated African Swine Fever (ASF) virus which lacks a functional version of the following genes: multigene-family 360 genes 9L, 10L, 11L, 12L, 13L and 14L; and multigene-family 505 genes 1R, 2R, 3R and 4R. The invention further provides an attenuated African Swine Fever (ASF) virus which lacks a functional version of the DP148R gene. The present invention also provides a vaccine comprising such an attenuated virus and its use to prevent ASF. Further, the invention relates to intranasal administration of an attenuated ASF virus.

21: 2017/02920. 22: 2017/04/26. 43: 2024/03/19

51: G03G

71: CANON KABUSHIKI KAISHA

72: KASHIIDE, Yosuke, SATO, Masaaki, MUNETSUGU, Hiroyuki

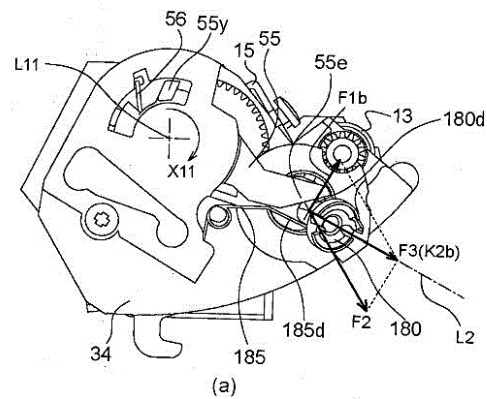
33: JP 31: 2014-242586 32: 2014-11-28

**54: CARTRIDGE AND ELECTROPHOTOGRAPHIC IMAGE FORMING DEVICE**

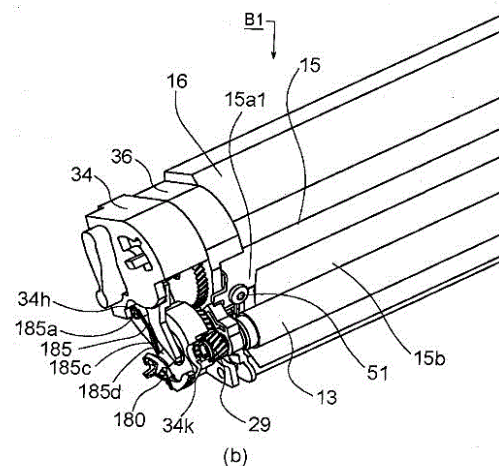
00: -

In a cartridge structure that uses a coupling member which can tilt and which can couple with a rotational force transmitting part of an electrophotographic

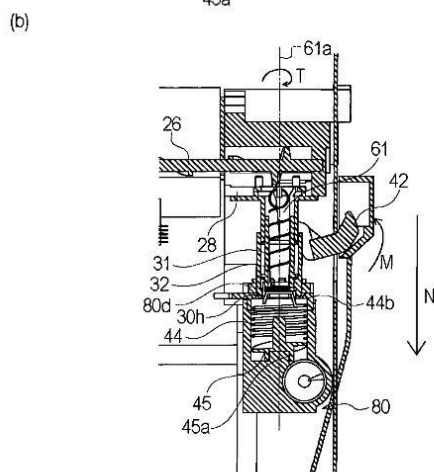
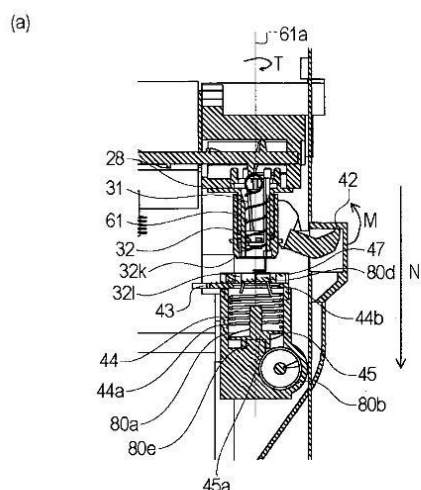
image forming device, in a case where the attaching and removing direction and the development/separation direction of the cartridge with respect to the electrophotographic image forming device are different, the coupling member can't couple with the rotational force transmitting part of the electrophotographic image forming device. In the present invention, provided are: a coupling lever 55 that, in unison with the attachment or detachment of a development cartridge B1, abuts and retracts from a coupling member 180; and a coupling spring 56 that causes the coupling lever 55 to impart an impelling force to the coupling member 180.



(a)



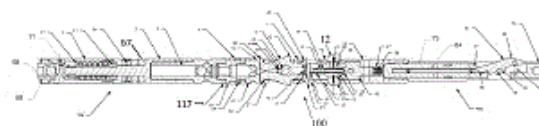
Rotational force from a coupling member provided in a cartridge is transmitted to a main body-side conveyance member for conveying toner to a main body-side toner housing section. The cartridge has: a photoreceptor drum; a discharge port configured such that toner removed from the photoreceptor drum is discharged towards the main body-side conveyance member; and the coupling member configured so as to transmit rotational force to the main body-side conveyance member. The coupling member is configured so as to be movable between: a first position for transmitting rotational force to the main body-side conveyance member; and a second position retracted from the first position.



#### **54: CORE BARREL HEAD ASSEMBLY WITH SAFETY OVERSHOT**

00: -

A core barrel head assembly including an upper body comprising a central passage. A pair of latches is arranged in the central passage. Each latch pivots about a pivot point at a first end. Each latch includes a latch release at a second end and an outer tube surface engaging surface between the first end and the second end. A retracting case includes a first end configured to engage at least the latch release of the latches. The outer tube surface engaging surface of each latch extends through a latch slot in an outer wall of the upper body and such that the latches rotate about the pivot point. The latches are movable between an extended position and retracted position by the retracting case with a mechanical advantage. An overshoot for retrieving a core barrel inner tube from a drill string. A method in earth drilling.



21: 2017/07985. 22: 2017/11/23. 43: 2024/02/20  
51: A61K

71: BAVARIAN NORDIC A/S

72: STEIGERWALD, ROBIN, KALLA, MARKUS

33: US 31: 62/175,738 32: 2015-06-15

#### **54: RECOMBINANT MODIFIED VACCINIA VIRUS ANKARA (MVA) FOOT AND MOUTH DISEASE VIRUS (FMDV) VACCINE**

00: -

The present invention relates to modified poxviral vectors and to methods of making and using the same. In particular, the invention relates to recombinant modified vaccinia virus Ankara-based (MVA-based) vaccine against FMDV infection and to related products, methods and uses. Specifically, the present invention relates to genetically engineered (recombinant) MVA vectors comprising at least one heterologous nucleotide sequence encoding an antigenic determinant of a FMDV protein. The invention also relates to products, methods and uses thereof, e.g., suitable to induce a protective immune response in a subject.

21: 2017/07714. 22: 2017/11/14. 43: 2024/02/06

51: E21B

71: EPIROC CANADA INC.

72: SALVADOR, PATRICK

33: US 31: 62/183,852 32: 2015-06-24

21: 2017/08071. 22: 2017/11/28. 43: 2024/01/31

51: A01N; A01P

71: Arysta Lifescience North America, LLC

72: ZHANG, Hong, MARTIN, Craig Arlen, STREET, John Richard, GOLDSMITH, Andrew Evelyn, GROOME, John Martin, BELL, Mark

33: US 31: 62/171,126 32: 2015-06-04

**54: SURFACTANT-STABILIZED CYCLOHEXANEDIOXIDE OXIME FORMULATIONS**

00: -

Herbicidal formulations include a combination of an active herbicide, in particular, a cyclohexanedione oxime herbicide, and a stabilizing surfactant. The herbicidal formulations, for example, have improved storage stability. Methods for controlling weeds with the herbicidal formulations are also provided.

21: 2017/08234. 22: 2017/12/04. 43: 2024/02/15

51: C07H; C07D; C07K; A61K; A61P

71: CENTURION BIOPHARMA CORPORATION

72: KRATZ, FELIX, ABU AJAJ, KHALID,

WARNECKE, ANDRÉ, KOESTER, STEPHAN DAVID, NOLLMANN, FRIEDERIKE I, WALTZER, SIMON, FUCHS, OLGA, GARCÍA FERNANDEZ, JAVIER

33: US 31: 62/261,563 32: 2015-12-01

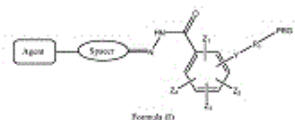
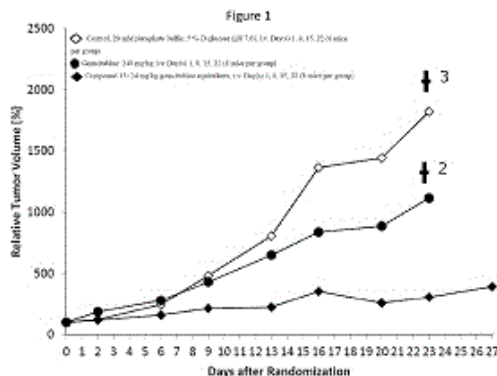
33: US 31: 62/261,213 32: 2015-11-30

33: US 31: 62/182,219 32: 2015-06-19

**54: DELIVERY SYSTEMS FOR CONTROLLED DRUG RELEASE**

00: -

The present invention provides a compound having the structure of Formula (I) or a pharmaceutically acceptable salt, hydrate, solvate, or isomer thereof, for the controlled delivery and release of Agent.



21: 2018/03855. 22: 2018/06/08. 43: 2024/01/29

51: A61K; A61P

71: PROPANC PTY LTD

72: KENYON, Julian, BRANDT, Ralf

33: US 31: 62/321,377 32: 2016-04-12

33: AU 31: 2015904678 32: 2015-11-12

**54: PROENZYME COMPOSITION**

00: -

The present invention relates to compositions, methods, uses and kits for treating cancer. In particular, the invention relates to compositions and methods of treating cancer in a subject comprising administering chymotrypsinogen in certain amounts, for example greater than about 0.1mg/kg, and trypsinogen in an amount, for example greater than about 0.02mg/kg, thereby treating cancer. The invention also relate to compositions and methods for treating cancer in a subject comprising chymotrypsinogen and trypsinogen wherein the weight ratio of chymotrypsinogen: trypsinogen is greater than 8:1.

21: 2018/07467. 22: 2018/11/07. 43: 2024/02/05

51: C07K; A61P; A61K

71: HUMABS BIOMED SA

72: CORTI, DAVIDE

33: EP 31: PCT/EP2016/066684 32: 2016-07-13

**54: NOVEL ANTIBODIES SPECIFICALLY BINDING TO ZIKA VIRUS EPITOPES AND USES THEREOF**

00: -

The invention relates to antibodies, and antigen binding fragments thereof, that potently neutralize infection of ZIKV. The invention also relates to antigenic sites to which the antibodies and antigen binding fragments bind, as well as to nucleic acids that encode and immortalized B cells that produce such antibodies and antibody fragments. In addition, the invention relates to the use of the antibodies and antibody fragments of the invention in screening methods as well as in the diagnosis, prophylaxis and treatment of ZIKV infection.

21: 2018/07495. 22: 2018/11/08. 43: 2024/02/20

51: A61K; A61P; C07C

71: MILESTONE PHARMACEUTICALS INC.

72: MAGUIRE, MARTIN P

33: US 31: 62/147,427 32: 2015-04-14

**54: HIGHLY WATER-SOLUBLE SALTS OF A SHORT ACTING PHENYLALKYLAMINE CALCIUM CHANNEL BLOCKER AND USES THEREOF**

00: -

The present invention includes surprisingly water-soluble salts of a phenylalkylamine compound that are potent antagonists of L-type calcium channels. Aqueous solutions including salts of the instant invention are formulated for nasal administration and provide a novel therapeutic platform for the treatment of stable angina, migraine, and cardiac arrhythmia, such as paroxysmal supraventricular tachycardia.

21: 2018/07592. 22: 2018/11/12. 43: 2024/02/20

51: C12N

71: THE BOARD OF TRUSTEES OF THE UNIVERSITY OF ILLINOIS, THE REGENTS OF THE UNIVERSITY OF CALIFORNIA

72: LONG, STEPHEN P, KROMDIJK, JOHANNES, GLOWACKA, KATARZYNA, NIYOGI, KRISHNA K, LEONELLI, LAURIE, GABILLY, STEPHANE T

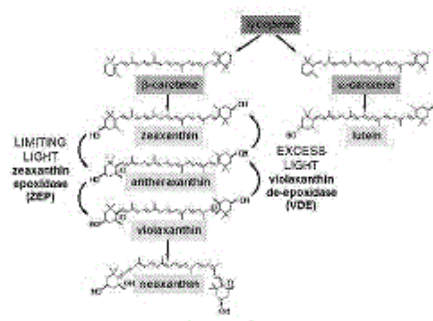
33: US 31: 62/342,248 32: 2016-05-27

**54: TRANSGENIC PLANTS WITH INCREASED PHOTOSYNTHESIS EFFICIENCY AND GROWTH**

00: -

The present disclosure provides a transgenic plant comprising one or more nucleotide sequences encoding polypeptides selected from photosystem II subunit S (PsbS), zeaxanthin epoxidase (ZEP), and violaxanthin de-epoxidase (VDE), operably linked to at least one expression control sequence. Expression vectors for making transgenic plants,

and methods for increasing biomass production and/or carbon fixation and/or growth in a plant comprising increasing expression of at least one of PsbS, ZEP and VDE polypeptides are also provided.



21: 2018/08102. 22: 2018/11/29. 43: 2024/02/08

51: A61K; A61P; C07D

71: CLEMENTIA PHARMACEUTICALS INC.

72: DESJARDINS, CLARISSA, GROGAN, DONNA ROY, PACKMAN, JEFFREY NEAL, HARNETT, MARK

33: US 31: 62/347,381 32: 2016-06-08

**54: METHODS FOR TREATING HETEROTOPIC OSSIFICATION**

00: -

The invention features dosing regimens and pharmaceutical formulations for oral administration of palovarotene. The dosing regimens can reduce heterotopic ossification, reduce the number of flare-ups, and/or reduce the severity of flare-ups in subjects suffering from fibrodysplasia ossificans progressiva.

FIG. 3A

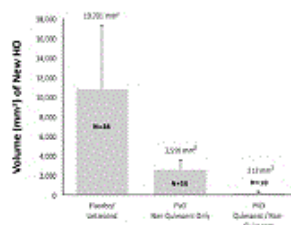
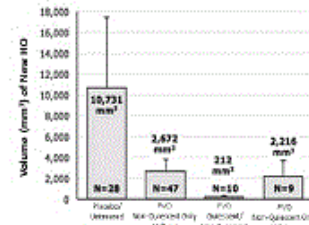


FIG. 3B



21: 2018/08187. 22: 2018/12/04. 43: 2024/02/15

51: B01L

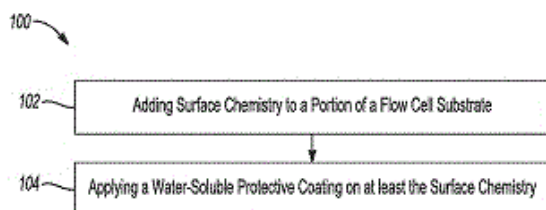


71: ILLUMINA, INC., ILLUMINA CAMBRIDGE LIMITED, ILLUMINA SINGAPORE PTE. LTD.  
 72: TRAN, HAI QUANG, ZIMMERLEY, MAXWELL, MORRISON, JULIA, ARTIOLI, GIANLUCA ANDREA, SLY, KRYSTAL, BLACK, HAYDEN, KRAFT, LEWIS J, XIE, HONG, WEI, WEI, SANFORD, RYAN, RAMIREZ, SEAN M, MATHER, BRIAN D, LI, EDWIN, MOON, SOJEONG, KIM, INNSU DANIEL, RICHEL, ALEXANDRE, VINCENT, LUDOVIC, VON HATTEN, XAVIER  
 33: US 31: 62/504,977 32: 2017-05-11

#### **54: PROTECTIVE SURFACE COATINGS FOR FLOW CELLS**

00: -

An example of a method includes modifying an exposed surface of a substrate to incorporate a first chemical group; reacting the first chemical group with a first reactive group of a functionalized polymer molecule to form a functionalized polymer coating layer covalently bound to the exposed surface of the substrate; grafting a primer to the functionalized polymer coating layer by reacting the primer with a second reactive group of the functionalized polymer coating layer; and forming a water-soluble protective coating on the primer and the functionalized polymer coating layer. Examples of flow cells incorporating examples of the water-soluble protective coating are also disclosed herein.



21: 2018/08215. 22: 2018/12/05. 43: 2024/02/21  
 51: C12N  
 71: UNIVERSITY OF CAPE TOWN  
 72: ARENDZE-BAILEY, BRONWYN LYNN, THOMSON, JENNIFER ANN, IYER, KERSHINI, RAFUDEEN, MOHAMED SUHAIL, IYER, REVEL, ELLICK, TAMARYN LOREAN  
 33: GB 31: 1609969.9 32: 2016-06-07

#### **54: DROUGHT RESISTANCE MULTIGENE CONSTRUCT**

00: -

The present invention relates to a polygenic DNA construct consisting of three abiotic stress tolerance genes, separated by nucleic acids encoding FMDV 2A peptides under the control of a stress inducible

promoter. The stable insertion of the construct into plants confers drought tolerance to the plants. The invention also provides for vectors, host cells, transgenic plants and transgenic seeds containing the construct.



21: 2018/08312. 22: 2018/12/10. 43: 2024/02/15  
 51: C12N; A61K; A61P; C12Q; G01N  
 71: UNIVERSITY HEALTH NETWORK  
 72: KELLER, GORDON, CRAFT, APRIL M  
 33: US 31: 61/809,050 32: 2013-04-05

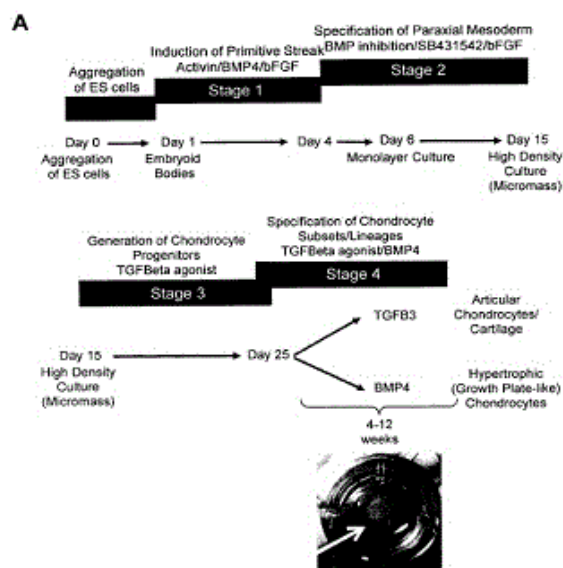
#### **54: METHODS AND COMPOSITIONS FOR GENERATING CHONDROCYTE LINEAGE CELLS AND/OR CARTILAGE LIKE TISSUE**

00: -

A method for generating chondrocytes and/or cartilage, optionally articular like non-hypertrophic chondrocyte cells and/or cartilage like tissue and/or hypertrophic chondrocyte like cells and/or cartilage like tissue, the method comprising: a. culturing a primitive streak-like mesoderm population, optionally a CD56+, PDGFRalpha+ KDR- primitive streak-like mesoderm population, with a paraxial mesoderm specifying cocktail comprising: i. a FGF agonist; ii. a BMP inhibitor; optionally Noggin, LDN-193189, Dorsomorphin; and iii. optionally one or more of a TGFbeta inhibitor, optionally SB431524; and a Wnt inhibitor, optionally DKK1, IWP2, or XAV939; to specify a paraxial mesoderm population expressing cell surface CD73, CD105 and/or PDGFR-beta; b. generating a chondrocyte precursor population comprising: i. culturing the paraxial mesoderm population expressing CD73, CD105 and/or PDGFR-beta at a high cell density optionally in serum free or serum containing media; ii. culturing the high cell density CD73+, CD105+ and/or PDGFRbeta+ paraxial mesoderm population with a TGFbeta3 agonist in serum free media to produce a high cell density Sox9+, collagen 2+ chondrocyte precursor population; and c. either i. culturing the high cell density Sox9+, collagen 2+ chondrocyte



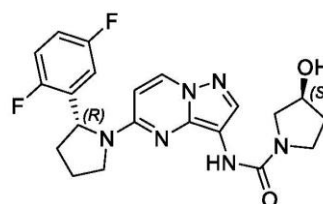
precursor population with the TGFbeta3 agonist for an extended period of time to produce an articular like non-hypertrophic chondrocyte cells and/or cartilage like tissue; or ii. culturing the high cell density Sox9+ collagen2+ chondrocyte precursor population with a BMP4 agonist for an extended period of time to produce a hypertrophic chondrocyte like cells and/or cartilage like tissue.



21: 2018/08534. 22: 2018/12/18. 43: 2024/01/31  
51: A61K; A61P; C07D  
71: Loxo Oncology, Inc., Array BioPharma Inc.  
72: REYNOLDS, Mark, SPENCER, Stacey, JUENGST, Derrick, HACHE, Bruno, JIANG, Yutong, HAAS, Julia, ANDREWS, Steven W.  
33: US 31: 62/338,359 32: 2016-05-18  
**54: PREPARATION OF (S)-N-(5-((R)-2-(2,5-DIFLUOROPHENYL)PYRROLIDIN-1-YL)PYRAZOLO[1,5-A]PYRIMIDIN-3-YL)-3-HYDROXYPYRROLIDINE-1-CARBOXAMIDE**  
00: -

Process for preparing (S)-N-(5-((R)-2-(2,5-difluorophenyl)pyrrolidin-1-yl)pyrazolo[1,5-a]pyrimidin-3-yl)-3-hydroxypyrrolidine-1-carboxamide (formula I) or a salt thereof by reacting phenyl(5-((R)-2-(2,5-difluorophenyl)pyrrolidin-1-yl)-3,3a-dihydropyrazolo[1,5-a]pyrimidin-3-yl)carbamate or a similar derivative (formula 13) with (S)-pyrrolidin-3-ol (formula 14). Process for preparing phenyl(5-((R)-2-(2,5-difluorophenyl)pyrrolidin-1-yl)-3,3a-dihydropyrazolo[1,5-a]pyrimidin-3-yl)carbamate (formula 13) or a similar derivative by reduction of (R)-5-(2-(2,5-difluorophenyl)pyrrolidin-1-yl)-3-

nitropyrazolo[1,5-a]pyrimidine (formula 11) to (R)-5-(2-(2,5-difluorophenyl)pyrrolidin-1-yl)pyrazolo[1,5-a]pyrimidin-3-amine (formula 12). Process for preparing (R)-2-(2,5-difluorophenyl)pyrrolidine(R)-2-hydroxysuccinate (formula 10) by treating (R)-N-((R)-1-(2,5-difluorophenyl)-3-(1,3-dioxan-2-yl)propyl)-2-methylpropane-2-sulfonamide (formula 19) with an acid and a reducing agent. (S)-N-(5-((R)-2-(2,5-difluorophenyl)pyrrolidin-1-yl)pyrazolo[1,5-a]pyrimidin-3-yl)-3-hydroxypyrrolidine-1-carboxamide, is a tyrosin kinase (TRK) inhibitor for treating e.g. cancer.



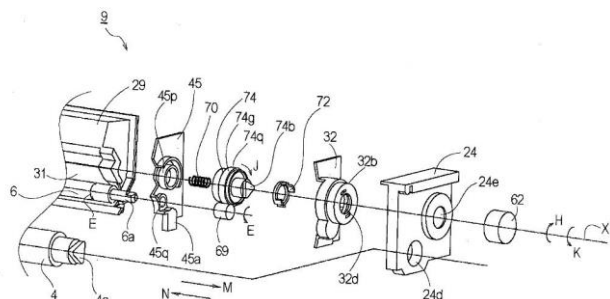
Formula I

21: 2019/02349. 22: 2019/04/12. 43: 2024/03/18  
51: G03G  
71: CANON KABUSHIKI KAISHA  
72: SATO, MASAOKI, KANNO, KAZUHIKO, NISHIYA, SATOSHI, YAMASHITA, MASATOSHI  
33: JP 31: 2013-253522 32: 2013-12-06  
**54: CARTRIDGE, PROCESS CARTRIDGE AND ELECTROPHOTOGRAPHIC IMAGE FORMING APPARATUS**

00: -

A process cartridge detachably mountable to a main assembly of an electrophotographic image forming apparatus, includes a rotatable photosensitive drum; a rotatable developing roller configured to develop image formed on the drum, the developing roller being capable of contacting to and spacing from the drum; an urging force receiving portion configured to receive, from a main assembly side urging member, an urging force for spacing the developing roller from the drum; a cartridge side drive transmission member capable of the coupling with a main assembly side drive transmission member and configured to receive, from the main assembly side drive transmission member, a rotational force for rotating the developing roller; and a decoupling member capable of urging the cartridge side drive transmission member by the urging force received by the urging force receiving portion to decouple the

cartridge side drive transmission member from the main assembly side drive transmission member.



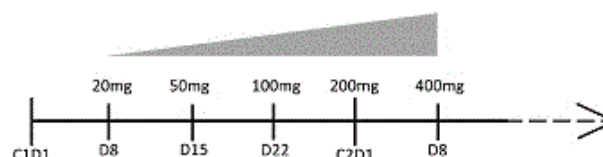
21: 2019/02673. 22: 2019/04/29. 43: 2024/02/08  
51: A61K; C07K  
71: ALX ONCOLOGY INC.  
72: DEMING, LAURA, GOODMAN, COREY, PONS, JAUME, SIM, BANG JANET, VRLJIK, MARIJA  
33: TW 31: 104125902 32: 2015-08-10  
33: US 31: 62/202,775 32: 2015-08-07  
33: US 31: 14/971,931 32: 2015-12-16  
33: US 31: 62/202,779 32: 2015-08-07  
33: US 31: 62/202,772 32: 2015-08-07  
**54: SIRP-ALPHA VARIANT CONSTRUCTS AND USES THEREOF**

00: -  
The invention relates to compositions and methods of SIRP-a variant constructs including SIRP-a variants. The SIRP-a variant constructs may be engineered in a variety of ways to respond to environmental factors, such as pH, hypoxia, and/or the presence of tumor-associated enzymes or tumor-associated antigens. The SIRP-a variant constructs of the invention may be used to treat various diseases, such as cancer, preferably solid tumor or hematological cancer.

21: 2019/07369. 22: 2019/11/06. 43: 2024/02/21  
51: A61K; C07K; A61P  
71: MORPHOSYS AG  
72: KELEMEN, PETER, SCHWARZ, MICHAEL, WINDERLICH, MARK, HEEGER, STEFFEN, WEINELT, DOMINIKA  
33: EP 31: 17173712.5 32: 2017-05-31  
**54: TREATMENT PARADIGM FOR AN ANTI-CD19 ANTIBODY AND VENETOCLAX COMBINATION TREATMENT**

00: -  
The present disclosure provides anti-CD19 antibodies and venetoclax for use in the treatment of non-Hodgkin's lymphoma, chronic lymphocytic

leukemia and/or small lymphocytic lymphoma. The anti-CD19 antibodies, in particular MOR00208, and venetoclax are administered to patients suffering non-Hodgkin's lymphoma (NHL), chronic lymphocytic leukemia (CLL) and/or small lymphocytic lymphoma (SLL) according to a specific treatment paradigm to mitigate therapy associated tumor lysis syndrome.



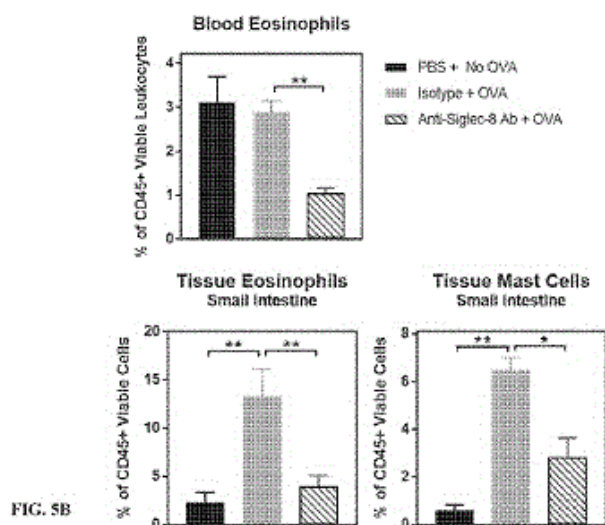
21: 2019/07371. 22: 2019/11/06. 43: 2024/02/05  
51: A61K; A61P  
71: ALLAKOS INC.  
72: BEBBINGTON, CHRISTOPHER ROBERT, YOUNGBLOOD, BRADFORD ANDREW, TOMASEVIC, NENAD  
33: US 31: 62/502,479 32: 2017-05-05  
**54: METHODS AND COMPOSITIONS FOR TREATING ALLERGIC OCULAR DISEASES**

00: -  
The present disclosure provides methods for the treatment of an allergic ocular disease (e.g., allergic conjunctivitis, keratoconjunctivitis, or giant papillary conjunctivitis). In particular, the present disclosure provides methods for the treatment of an allergic ocular disease through administration of antibodies that bind to human Siglec-8 or compositions comprising said antibodies. The present disclosure also provides articles of manufacture or kits comprising antibodies that bind to human Siglec-8 for the treatment of an allergic ocular disease.

21: 2019/07372. 22: 2019/11/06. 43: 2024/02/05  
51: A61K; A61P; C07K  
71: ALLAKOS INC.  
72: BEBBINGTON, CHRISTOPHER ROBERT, YOUNGBLOOD, BRADFORD ANDREW, TOMASEVIC, NENAD, BROCK, EMILY C  
33: US 31: 62/502,480 32: 2017-05-05  
33: US 31: 62/572,337 32: 2017-10-13  
**54: METHODS AND COMPOSITIONS FOR TREATING INFLAMMATORY GASTROINTESTINAL DISORDERS**

00: -

The present disclosure provides methods for the treatment of inflammatory bowel disease (IBD) or an eosinophilic gastrointestinal disorder (EGID), such as eosinophilic esophagitis (EOE), eosinophilic gastritis (EG), eosinophilic gastroenteritis (EGE), and eosinophilic colitis (EC). In particular, the present disclosure provides methods for the treatment of IBD or an EGID through administration of antibodies that bind to human Siglec-8 or compositions comprising said antibodies. The present disclosure also provides articles of manufacture or kits comprising antibodies that bind to human Siglec-8 for the treatment of IBD or an EGID.



21: 2019/07623. 22: 2019/11/18. 43: 2024/02/05  
 51: A61K; A61P  
 71: SEAGEN INC.  
 72: OKELEY, NICOLE, FIELD, JESSICA, GARDAL, SHYRA, HEISER, RYAN  
 33: US 31: 62/516,536 32: 2017-06-07  
**54: T CELLS WITH REDUCED SURFACE FUCOSYLATION AND METHODS OF MAKING AND USING THE SAME**

00: -  
 Methods of producing T cells having reduced surface fucosylation and use thereof in adoptive cell therapy, in particular, in cancer treatment are provided.

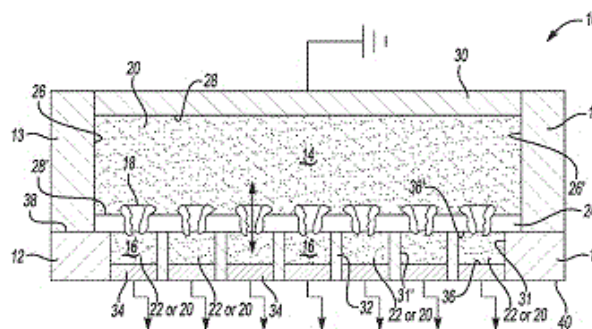
21: 2019/07624. 22: 2019/11/18. 43: 2024/02/08  
 51: G01N  
 71: ILLUMINA, INC.

72: BOYANOV, BOYAN, AKOLKAR, ROHAN N, FISHER, JEFFREY S, MANDELL, JEFFREY G, QIANG, LIANGLIANG, BARNARD, STEVEN M  
 33: US 31: 62/522,628 32: 2017-06-20

#### **54: NANOPORE SEQUENCERS**

00: -

Example nanopore sequencers include a cis well, a trans well, and a nanopore fluidically connecting the cis and trans wells. In one example sequencer, a modified electrolyte (including an electrolyte and a cation complexing agent) is present in the cis well, or the trans well, or in the cis and the trans wells. In another example sequencer, a gel state polyelectrolyte is present in the cis well, or the trans well, or in the cis and the trans wells.



21: 2019/08035. 22: 2019/12/03. 43: 2024/02/21

51: G01N; G02B; H01L

71: ILLUMINA, INC.

72: JIANG, RUI, PINTO, JOSEPH

33: US 31: 62/611,448 32: 2017-12-28

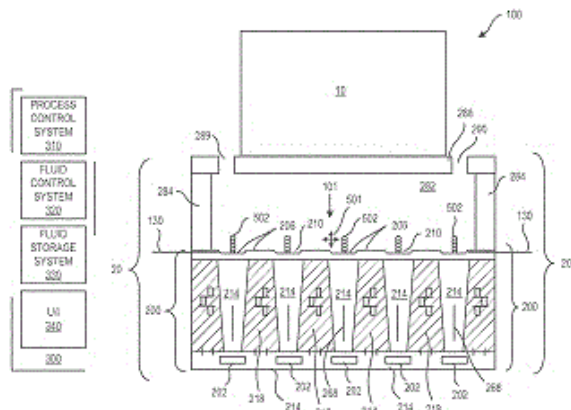
33: US 31: 62/644,805 32: 2018-03-19

33: NL 31: 2020636 32: 2018-03-20

#### **54: LIGHT ENERGY FLUORESCENCE EXCITATION**

00: -

There is set forth herein a light energy exciter that can include one or more light sources. A light energy exciter can emit excitation light directed toward a detector surface that can support biological or chemical samples.



21: 2019/08180. 22: 2019/12/09. 43: 2024/02/29

51: C12Q; C12N; C08F; C08G; G03F

71: ILLUMINA, INC., ILLUMINA CAMBRIDGE LIMITED

72: FISHER, JEFFREY S, MATHER, BRIAN D, ROBERT BACIGALUPO, MARIA CANDELARIA, FULLERTON, JUSTIN, VINCENT, LUDOVIC, KRAFT, LEWIS J, HONG, SAHNGKI, BOYANOV, BOYAN, BOWEN, M SHANE, PARK, SANG, GEORGE, WAYNE N, BROWN, ANDREW A, YUAN, DAJUN

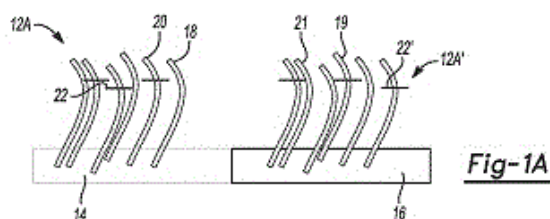
33: US 31: 62/692,511 32: 2018-06-29

33: US 31: 62/743,373 32: 2018-10-09

#### 54: FLOW CELLS

00: -

An example of a flow cell includes a substrate; a first primer set attached to a first region on the substrate, the first primer set including an un-cleavable first primer and a cleavable second primer; and a second primer set attached to a second region on the substrate, the second primer set including a cleavable first primer and an un-cleavable second primer.



21: 2019/08210. 22: 2019/12/10. 43: 2024/02/21

51: B01J; C07D; C12Q; C08F

71: ILLUMINA, INC.

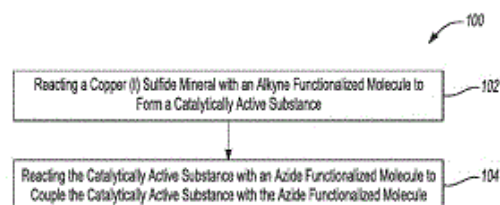
72: KRAFT, LEWIS J

33: US 31: 62/609,370 32: 2017-12-22

#### 54: CATALYTICALLY ACTIVE SUBSTANCES

00: -

A catalytically active substance includes a copper (I) sulfide mineral particle, and an alkyne functionalized molecule bound to a surface of the copper (I) sulfide mineral particle. In an example method, a copper (I) sulfide mineral is reacted with an alkyne functionalized molecule to form a catalytically active substance. The catalytically active substance is reacted with an azide functionalized molecule to couple the catalytically active substance with the azide functionalized molecule.



21: 2019/08214. 22: 2019/12/10. 43: 2024/02/21

51: C07K

71: TENEOBIO, INC.

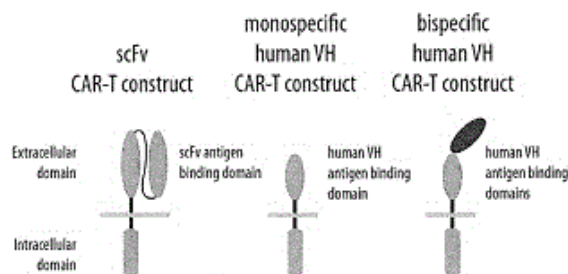
72: TRINKLEIN, NATHAN, ALDRED, SHELLEY FORCE, HARRIS, KATHERINE, VAN SCHOOTEN, WIM

33: US 31: 62/522,355 32: 2017-06-20

#### 54: ANTI-BCMA HEAVY CHAIN-ONLY ANTIBODIES

00: -

Anti-BCMA heavy chain-only antibodies (UniAb) and disclosed, along with methods of making such antibodies, compositions, including pharmaceutical compositions, comprising such antibodies, and their use to treat B-cell disorders characterized by the expression of BCMA.



21: 2019/08330. 22: 2019/12/12. 43: 2024/02/21

51: F16B; B60P

71: METSO SWEDEN AB



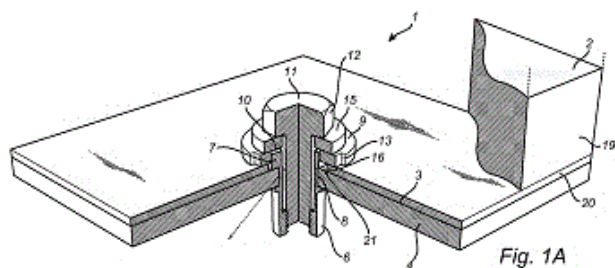
72: LARSSON, FREDRIK, PERSSON, HENRIK, HUHTALA, ALEKSI, LÄMPSÄ, JUKKA, GYBERG, MICHAEL

33: EP 31: 17177447.4 32: 2017-06-22

**54: METHOD AND FASTENING DEVICE FOR FASTENING A LINING ELEMENT**

00: -

The invention relates to a method and fastening device (1) for use in heavy duty machinery for fastening a lining element (2) to a surface (3) of a body steel plate (4). The invention also relates to an assembly (17), a truck (23) and a handling tool (14).



21: 2019/08376. 22: 2019/12/13. 43: 2024/02/21  
51: C07H; C12Q

71: ILLUMINA, INC., ILLUMINA CAMBRIDGE LIMITED

72: WU, XIAOLIN, SMITH, RANDALL, SHIEH, PEYTON, BEIERLE, JOHN M, GEORGE, WAYNE N, LAWRENCE, ELLIOT JOHN, MAO, JIE, LIU, XIAOHAI

33: US 31: 62/671,816 32: 2018-05-15

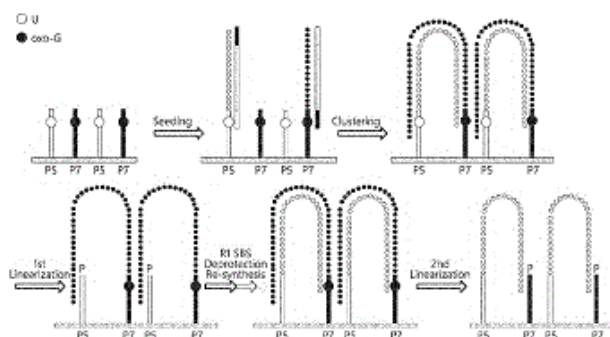
33: US 31: 62/788,045 32: 2019-01-03

**54: COMPOSITIONS AND METHODS FOR CHEMICAL CLEAVAGE AND DEPROTECTION OF SURFACE-BOUND OLIGONUCLEOTIDES**

00: -

Embodiments of the present disclosure relate to methods of preparation of templates for polynucleotide sequencing. In particular, the disclosure relates to linearization of clustered polynucleotides in preparation for sequencing by cleavage of one or more first strands of double-stranded polynucleotides immobilized on a solid support by a transition metal complex, for example, a palladium complex or a nickel complex. Further disclosure relate to linearization of clustered polynucleotides by cleaving one or more second strands of double double-stranded polynucleotides immobilized on a solid support comprising azobenzene linker by  $\text{Na}_2\text{S}_2\text{O}_4$ . Nucleotides and

oligonucleotides comprising a 3' phosphate moiety blocking group, and methods of removing the same using a fluoride reagent are also disclosed.



21: 2019/08438. 22: 2019/12/18. 43: 2024/02/20  
51: A62B A41D

71: UVEX ARBEITSSCHUTZ GMBH

72: WAGNER, Wolf

33: DE 31: 10 2017 211 182.8 32: 2017-06-30

**54: RESPIRATORY HALF MASK**

00: -

The invention relates to a respiratory half mask. The respiratory half mask has a respiratory half mask body (1) having a main part (5) for covering the mouth of a wearer and having two opposite side areas (16), which are fastened, folded over, to the main part (5) in order to receive at least one head holding means (2) on the wearer, head holding means receptacles (17) thus being formed. The respiratory half mask body (1) also has a nose part (6), which is fixedly connected to the main part (5) and can be folded between a nose part wearing position and a nose part storage position and has at least two nose part partial cut-outs (13). The respiratory half mask body (1) also has a chin part (7), which is fixedly connected to the main part (5) and can be folded between a chin part wearing position and a chin part storage position and has at least two chin part partial cut-outs (15). The partial cut-outs (13, 15) serve to prevent fastening of the folded-over side areas (16) to the chin part (7) and to the nose part (6) when the side areas (16) are fastened to the main part (5).



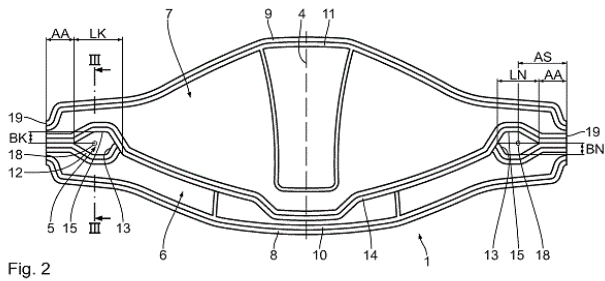


Fig. 2

21: 2019/08445. 22: 2019/12/18. 43: 2024/01/31

51: C12N

71: EpicentRx, Inc.

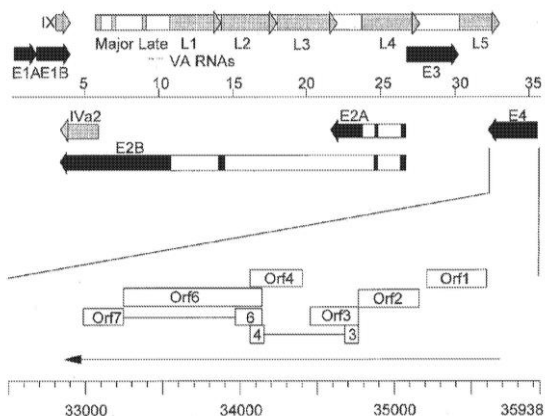
72: LARSON, Christopher, ORONSKY, Bryan, REID, Tony R.

33: US 31: 62/511,822 32: 2017-05-26

**54: RECOMBINANT ADENOVIRUSES CARRYING TRANSGENES**

00: -

Disclosed herein are recombinant adenoviruses with one or more nucleotide sequences inserted between two viral transcription units, formulations comprising the recombinant adenoviruses, and methods of treatment using the recombinant adenoviruses. In some embodiments, the one or more nucleotide sequences are inserted in an IX-E2 insertion site and/or an L5-E4 insertion site.



21: 2019/08497. 22: 2019/12/19. 43: 2024/02/21

51: A61F

71: ACCOMMO AG

72: HAEFLIGER, EDUARD ANTON

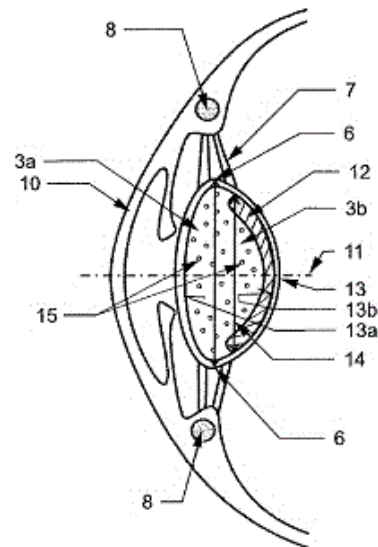
33: EP 31: 17176165.3 32: 2017-06-15

**54: INTRAOCULAR LENS IMPLANT**

00: -

The invention concerns an intraocular lens implant (12) for placement into an intracapsular space (3) of

a lens capsule (13) of an eye and a composition, kit and methods related to the lens implant (12). The lens implant (12) is designed for a placement into a posterior portion (3b) of the intracapsular space (3) after removal of a native lens body (2) and has a convex posterior surface. The lens implant (12) is formed of one part and is manufactured from a suitable transparent non-structural cellular material. This keeps an anterior portion (3a) of the intracapsular space (3) free of the implant (12) which is dimensioned to comprise at most 40% of a volume of the native lens body.



21: 2019/08502. 22: 2019/12/19. 43: 2024/02/13

51: E02F

71: AUSTIN ENGINEERING LTD

72: HALL, Jamie Vincent Clarke, GREESHAW, Lyndon Brian

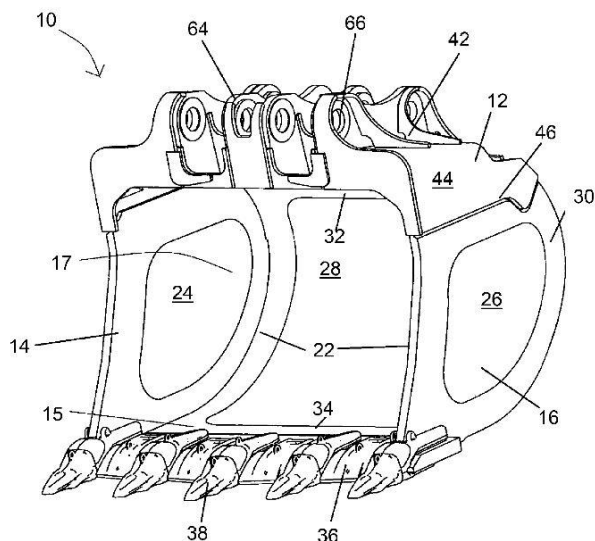
33: AU 31: PCT/AU2017/050483 32: 2017-05-23

**54: A BUCKET AND A GROUND MOVING APPARATUS INCLUDING THE BUCKET**

00: -

A bucket (10) for moving ground material, the bucket (10) comprising a handling section (12) with a mounting arrangement (64) for coupling to a machine, a load section (14) 5 mounted on the handling section (12) such that the load section (14) is separable from the handling section (12) so that the load section (14) can be separated and replaced with another load section (14). The handling section (12) may include a mounting formation (46), and the load section (14) may include a further mounting formation (20) that is complementary to said

mounting formation (46) and the mounting formation (46) 0 is configured to receive the further mounting formation (20) therein and the mounting (20) and complementary mounting formations (46) have surfaces that are in abutment.



21: 2020/00085. 22: 2020/01/07. 43: 2024/02/05  
51: A61K; A61Q

71: Colgate-Palmolive Company

72: MYERS, Carl, BEGUM-GAFUR, Rehana, MILLER, Jeffrey Merl, MAKWANA, Ekta

#### **54: BIPHASIC ORAL CARE COMPOSITIONS**

00: -

This application provides, among other things, novel aqueous biphasic oral care compositions comprising two distinct aqueous phases, useful for combining and delivering poorly compatible ingredients, for example to deliver effective levels of cationic antibacterial agents in combination with anionic polymers, e.g. that protect against erosion and staining, by addition of a stabilizing amount of a polyamine, e.g. lysine, and methods for making and using the same.

21: 2020/00118. 22: 2020/01/08. 43: 2024/02/29  
51: C12P; B01D; C10J; C12M

71: LANZATECH, INC.

72: WINTER, JOHN, HOHMAN, JERROD

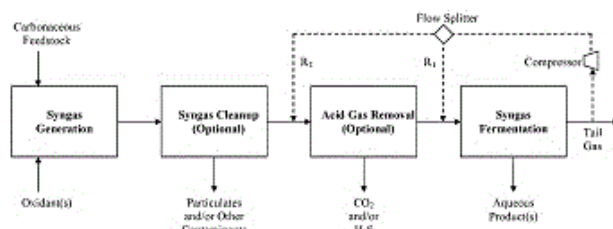
33: US 31: 15/876,198 32: 2018-01-21

33: US 31: 62/518,295 32: 2017-06-12

#### **54: METHODS AND APPARATUS FOR RECYCLING TAIL GAS IN SYNGAS FERMENTATION TO ETHANOL**

00: -

The invention present provides a method (and suitable apparatus) to convert biomass to ethanol, comprising gasifying the biomass to produce raw syngas; feeding the raw syngas to an acid-gas removal unit to remove at least some CO<sub>2</sub> and produce a conditioned syngas stream; feeding the conditioned syngas stream to a fermentor to biologically convert the syngas to ethanol; capturing a tail gas from an exit of the fermentor, wherein the tail gas comprises at least CO<sub>2</sub> and unconverted CO or H<sub>2</sub>; and recycling a first portion of the tail gas to the fermentor and/or a second portion of the tail gas to the acid-gas removal unit. This invention allows for increased syngas conversion to ethanol, improved process efficiency, and better overall biorefinery economics for conversion of biomass to ethanol.



21: 2020/00220. 22: 2020/01/13. 43: 2024/01/29  
51: H04W

71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)

72: SIOMINA, Iana, KAZMI, Muhammad, CALLENDER, Christopher

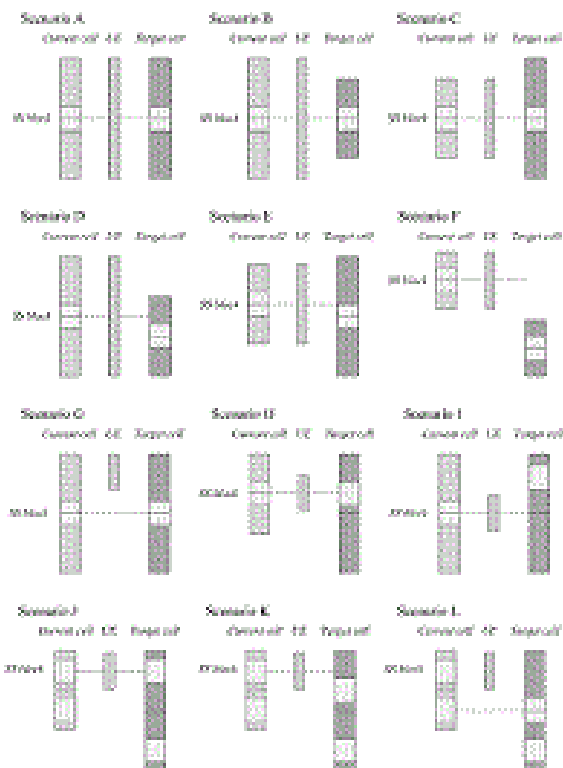
33: US 31: 62/526,190 32: 2017-06-28

#### **54: METHOD FOR DETERMINATION BETWEEN INTRA-AND INTER-FREQUENCY OPERATIONS**

00: -

The solution outlined in this disclosure is a method for determining intra-frequency operations and inter-frequency operations, the method comprises obtaining a first measurement resource of a first cell as a reference measurement resource, obtaining a second measurement resource of a second cell, the second measurement resource of the second cell and the first measurement resource of the first cell are of the same type, and determining whether the

second cell operates on an intra-frequency carrier or an inter-frequency carrier by comparing the reference measurement resource to the second measurement resource of the second cell. The method may be carried out in a user equipment or a network node.



21: 2020/00437. 22: 2020/01/22. 43: 2024/02/29  
51: A01N; B01D; G01N  
71: BASF SE  
72: FIELDS, STEPHEN CRAIG, OBERHOLZER, MATTHEW RICHARD, GREEN, BRIAN MICHAEL, KULKARNI, SAMIR, NELSON, JENNIFER, ANDRES, PATRICIA

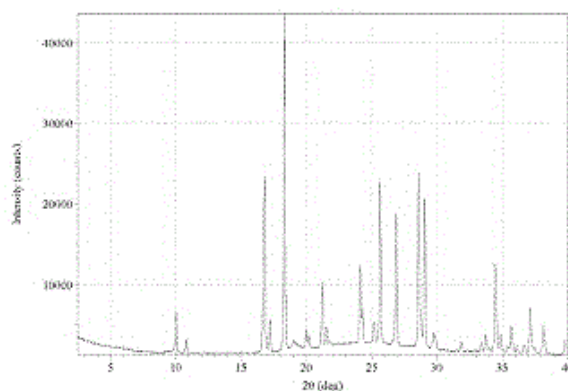
33: US 31: 62/533,944 32: 2017-07-18  
33: US 31: 62/653,736 32: 2018-04-06

#### 54: METHODS FOR THE PURIFICATION OF L-GLUFOSINATE

00: -

Compositions and methods for isolating L-glufosinate from a composition comprising L-glufosinate and glutamate are provided. The method comprises converting the glutamate to pyroglutamate followed by the isolation of L-glufosinate from the pyroglutamate and other components of the composition to obtain

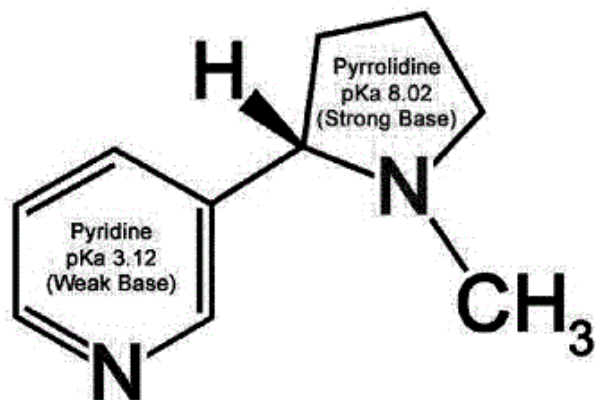
substantially purified L-glufosinate. The composition comprising L-glufosinate and glutamate is subjected to an elevated temperature for a sufficient time to allow for the conversion of glutamate to pyroglutamate, followed by the isolation of L-glufosinate from the pyroglutamate and other components of the composition to obtain substantially purified L-glufosinate. The glutamate alternatively may be converted to pyroglutamate by enzymatic conversion. The purified L-glufosinate is present in a final composition at a concentration of 90% or greater of the sum of L-glufosinate, glutamate, and pyroglutamate. In some embodiments, a portion of the glutamate in the starting composition may be separated from the L-glufosinate using a crystallization step. Solid forms of L-glufosinate materials, including crystalline L-glufosinate ammonium, are also described.



21: 2020/00494. 22: 2020/01/24. 43: 2024/02/29  
51: A24F  
71: NUDE NICOTINE, INC., RUBENSTEIN, JACOB  
72: RUBENSTEIN, JACOB  
33: US 31: 62/524,892 32: 2017-06-26  
**54: NICOTINE SALTS AND METHODS OF MAKING AND USING SAME**  
00: -

The present invention provides for compositions including nicotine salts, solutions thereof, methods of manufacture and methods of use. Certain embodiments provide for the delivery of said compositions including by: transdermal, oral, nasal and inhalation modes. Certain embodiments provide nicotine salts and solutions thereof, suitable for or packaged in or with devices including: oral lozenges, chewing gum, transdermal patches, intranasal

sprays and intranasal inhalers, e- liquids and e-cigarette or vaping devices.



21: 2020/00880. 22: 2020/02/11. 43: 2024/02/21

51: F04B

71: WEIR MINERALS NETHERLANDS B.V.

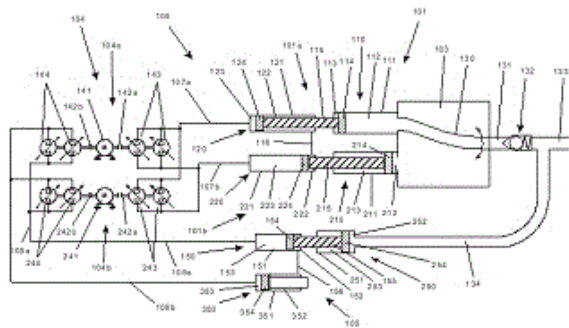
72: KEIJERS, RONALD GODEFRIDUS ANNA, VAN RIJSWICK, RUDOLFUS JOHANNES ADELEIDA

33: NL 31: 2019357 32: 2017-07-27

#### **54: PUMP SYSTEM FOR HANDLING A SLURRY MEDIUM**

00: -

This disclosure relates to a pump system for handling a slurry medium, the pump system comprising a pump unit (101) consisting of at least two reciprocating positive displacement slurry pumps, both pumps being arranged for alternating intake of slurry medium via a slurry suction inlet (103) and discharge of slurry medium via a slurry discharge outlet (103); a pump drive unit (104) for driving the at least two reciprocating positive displacement pumps of said pump unit; as well as a slurry damping pump unit (105) for damping discharge pulsations in the slurry medium being pumped.



21: 2020/00986. 22: 2020/02/17. 43: 2024/04/10

51: A61K; C12N; A61P

71: YAMAGUCHI UNIVERSITY, NATIONAL UNIVERSITY CORPORATION TOTTORI UNIVERSITY

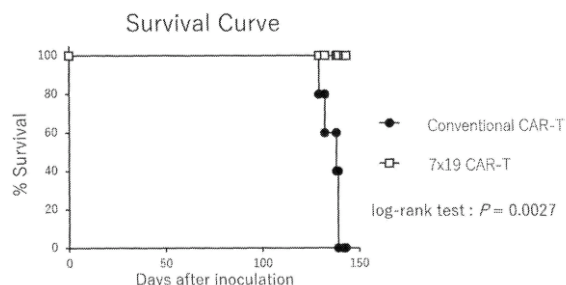
72: TAMADA, Koji, SAKODA, Yukimi, ADACHI, Keishi, NAKAMURA, Takafumi;

33: JP 31: 2017-196718 32: 2017-10-10

#### **54: ENHANCER FOR T-CELLS OR B-CELLS HAVING MEMORY FUNCTION, MALIGNANT TUMOR RECURRENCE INHIBITOR, AND INDUCER FOR INDUCING MEMORY FUNCTION IN T-CELLS OR B-CELLS**

00: -

The purpose of the present invention is to provide, in order to continue the rejection of malignant tumors over a long period of time, an enhancer for endogenous T-cells or B-cells having a memory function, and a malignant tumor recurrence inhibitor. The present invention involves preparing: an enhancer for subject T-cells or B-cells having a memory function, said enhancer including a nucleic acid transportation medium, a nucleic acid encoding interleukin 7 (IL-7) and a nucleic acid encoding chemokine (C-C motif) ligand 19 (CCL 19); an inducer which induces the memory function in the T-cells or B-cells in a subject; and a malignant tumor recurrence inhibitor which includes a nucleic acid transport medium, a nucleic acid encoding interleukin 7 (IL-7) and a nucleic acid encoding CCL19.



21: 2020/03211. 22: 2020/05/28. 43: 2024/01/31

51: A61K

71: Hangzhou DAC Biotech Co. Ltd

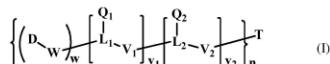
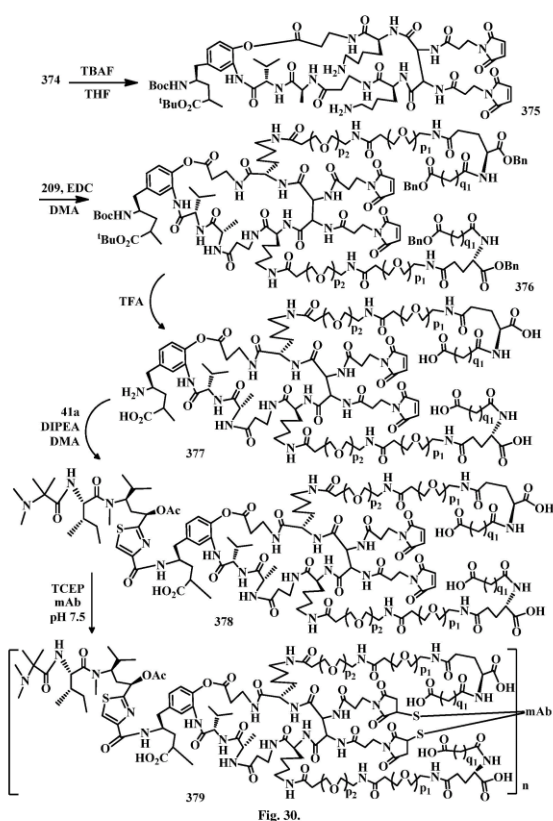
72: ZHAO, Robert Yongxin, YANG, Qingliang, HUANG, Yuanyuan, ZHAO, Linyao, GAI, Shun, YE, Hangbo, LEI, Jun, XU, Yifang, CAO, Mingjun, GUO, Huihui, JIA, Junxiang, TONG, Qianqian, LI, Wenjun, ZHOU, Xiaomai, XIE, Hongsheng, BAI, Lu, CAI, Xiang, ZHUO, Xiaotao, ZHANG, Xiuzheng, ZHENG, Jun



## 54: A CONJUGATE OF A TUBULYSIN ANALOG WITH BRANCHED LINKERS

00: -

The present invention relates to the conjugation of a tubulysin analog compound to a cell-binding molecule with branched/side-chain linkers for having better delivery of the conjugate compound and targeted treatment of abnormal cells. It also relates to a branched-linkage method of conjugation of a tubulysin analog molecule to a cell-binding ligand, as well as methods of using the conjugate in targeted treatment of cancer, infection and autoimmune disease.



21: 2020/03424. 22: 2020/06/08. 43: 2024/02/21  
51: B01D; C07K; C12M

71: Amgen Inc.

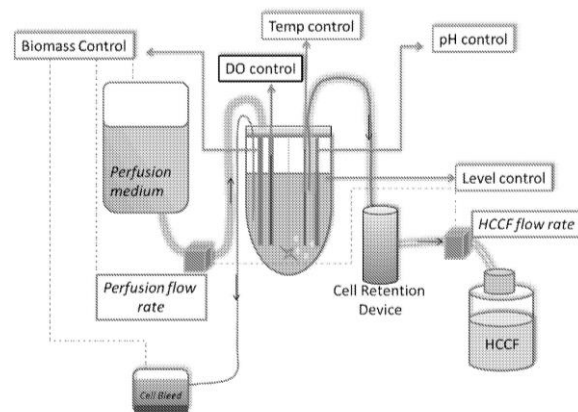
72: GOUDAR, Chetan, DESHPANDE, Rohini,  
GOMEZ, Natalia, BARKHORDARIAN, Hedieh,  
WANG, Yan

33: US 31: 62/597,250 32: 2017-12-11

## 54: CONTINUOUS MANUFACTURING PROCESS FOR BISPECIFIC ANTIBODY PRODUCTS

00: -

The present invention provides a continuous upstream manufacturing process for the production of bispecific antibody products, which comprise at least two binding domains. The process comprises at least the steps of (i) providing in a perfusion bioreactor at least one mammalian cell culture, which is capable of expressing the bispecific antibody product, (ii) growing the mammalian cell culture at a first perfusion rate until a set point viable cell density is reached, and (iii) maintaining perfusion culture at a second perfusion rate, wherein the bispecific antibody product concentration in the bioreactor is kept below a threshold value. The bispecific antibody product is then subject to subsequent downstream processing. Moreover, the invention provides a bispecific antibody product produced by the continuous upstream manufacturing process.



21: 2020/03454. 22: 2020/06/09. 43: 2024/02/08

51: A61K; A61P

71: Pharmed International Limited

72: HODGSON, Charles, MYERS, Stephen,  
OLIVER, Christopher

33: AU 31: 2017905181 32: 2017-12-22

## 54: LIPID COMBINATIONS

00: -

A combination or composition of mussel lipid and krill oil is disclosed, which is used to treat inflammation or pain. A process for preparing krill oil having a phospholipid content of about 50% or greater is also disclosed.

21: 2020/03478. 22: 2020/06/10. 43: 2024/02/20



51: F24S; F28D

71: VAST SOLAR PTY LTD

72: FISHER, JAMES ROBERT, CURTIS, ALLAN, DREWES, KURT FRIEDRICH, LESLIE, BRUCE ALEXANDER, JOST, TIMOTHY PETER, BARTOS, NICHOLAS PAUL

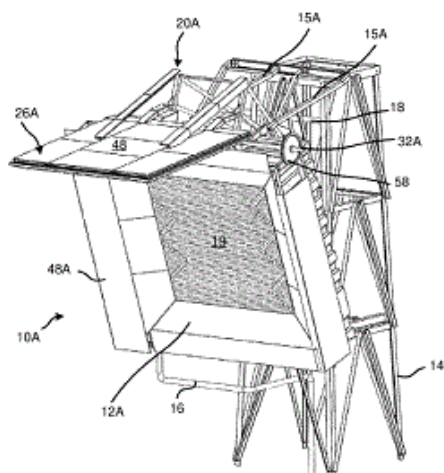
33: AU 31: 2017904632 32: 2017-11-15

33: AU 31: 2018902236 32: 2018-06-22

**54: A CONCENTRATED SOLAR POWER RECEIVER**

00: -

A concentrated solar thermal receiver is mounted on a tower to receive concentrated solar thermal energy from a concentrating array of solar reflectors. The receiver comprises a single layered array of tubes configured to carry a heat transfer fluid such as sodium and defining in combination an exposed concentrated solar thermal energy receiving surface. The array of tubes have a lower fluid inlet header communicating with an inlet conduit, and an upper fluid outlet communicating with an outlet conduit. The tubes are arranged in a serpentine configuration and define a fluid flow path which is predominantly transverse and upward. The receiver includes a thermally insulating cover movable between an open position and a closed position in which the solar thermal energy receiving surface is covered to block or reduce the incidence of solar flux on the tubes or to reduce heat loss from the array of tubes when they are not operational.



21: 2020/03583. 22: 2020/06/15. 43: 2024/02/08

51: C21C; C22C

71: Elkem ASA

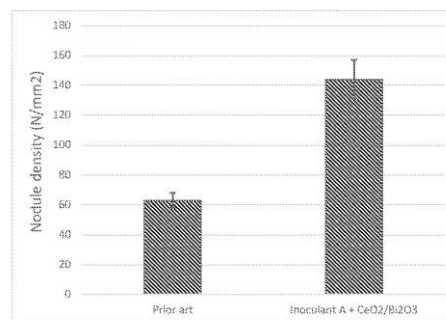
72: OTT, Emmanuelle

33: NO 31: 20172064 32: 2017-12-29

**54: CAST IRON INOCULANT AND METHOD FOR PRODUCTION OF CAST IRON INOCULANT**

00: -

The present invention relates to an inoculant for the manufacture of cast iron with spheroidal graphite, said inoculant comprises a particulate ferrosilicon alloy consisting of between 40 and 80% by weight of Si, 0.02-8% by weight of Ca; 0-5% by weight of Sr; 0-12 % by weight of Ba; 0-10% by weight of rare earth metal; 0-5 % by weight of Mg; 0.05-5% by weight of Al; 0-10% by weight of Mn; 0-10% by weight of Ti; 0-10% by weight of Zr; the balance being Fe and incidental impurities in the ordinary amount, wherein said inoculant additionally contains, by weight, based on the total weight of inoculant: 0.1 to 15% by weight of particulate rare earth metal oxide(s) and at least one of from 0.1 to 15% of particulate  $\text{Bi}_2\text{O}_3$ , and/or from 0.1 to 15% of particulate  $\text{Bi}_2\text{S}_3$ , and/or from 0.1 to 15% of particulate  $\text{Sb}_2\text{O}_3$ , and/or from 0.1 to 15% of particulate  $\text{Sb}_2\text{S}_3$ , and/or from 0.1 to 5% of one of more of particulate  $\text{Fe}_3\text{O}_4$ ,  $\text{Fe}_2\text{O}_3$ ,  $\text{FeO}$ , or a mixture thereof, and/or from 0.1 to 5% of one of more of particulate  $\text{FeS}$ ,  $\text{FeS}_2$ ,  $\text{Fe}_3\text{S}_4$ , or a mixture thereof, a method for producing such inoculant and use of such inoculant.



21: 2020/03592. 22: 2020/06/15. 43: 2024/01/31

51: B09B; E02B; E02D; E04B; F16G

71: Gripple Limited

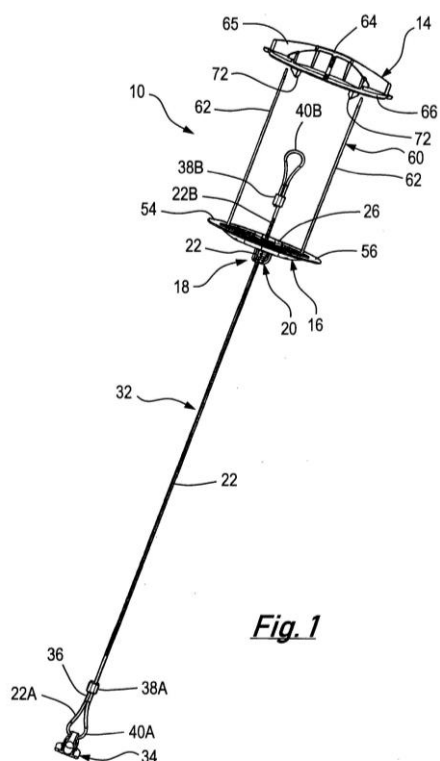
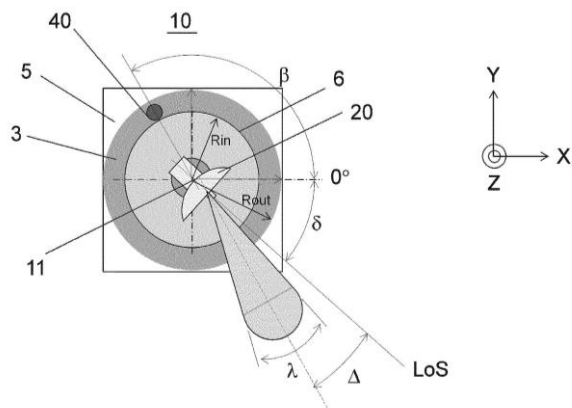
72: GIEMZA, Lee, FISHER, Thomas Edward, BUTTERWORTH, John

33: GB 31: 1800567.8 32: 2018-01-12

**54: CAPPING ASSEMBLY**

00: -

A capping assembly (10) for mounting on a covering (12) is disclosed. The capping assembly (10) comprises a cap (14) which can be disposed on the covering (12), a securing arrangement (18) to enable the capping assembly (10) to be secured on the covering (12). The capping assembly (10) further includes an insertion member (16) for insertion through the covering (12). The cap (14) can be attached to the insertion member (16). The securing arrangement (18) comprises a securing device (20) and a holding formation (44) to hold the securing device (20), the holding formation (44) being provided on the insertion member (16).

**Fig. 1**

21: 2020/03684. 22: 2020/06/18. 43: 2023/12/14  
51: A01N

71: RED SURCOS COLOMBIA LTDA.

72: BLUMEL, Edmundo

33: AR 31: P 20180101219 32: 2018-05-10

#### **54: HERBICIDE FORMULATION IN THE FORM OF A MICROEMULSION**

00: -

A herbicide formulation in the form of a microemulsion, with enhanced agricultural efficiency, that allows lower use of the active substance and has a lower environmental impact, with the active substance being present in its acid form and no need for chemical modification thereof to dissolve it in the water of the application solution, and which exhibits effectiveness synergies in tank mixtures with other active substances. The active substance comprises glyphosate, Imazapir, Imazapic, Picloram, and mixtures of active substances comprising glyphosate and 2,4-dichlorophenoxyacetic acid, glyphosate and Dicamba, and Picloram and 2,4-dichlorophenoxyacetic acid, said active substances being dissolved in a specially designed co-adjuvant generated using a specific combination of surfactants and solvents. Tank mixtures of the products formulated using the specially designed co-adjuvant and the active substances Imazapir and Imazapic, or Picloram and 2,4-D, are also included in the scope of the invention.

21: 2020/04936. 22: 2020/08/11. 43: 2024/04/11  
51: C07C; C12P

71: EUROAPI HUNGARY LIMITED LIABILITY COMPANY

72: JUHÁSZ, Imre, HORTOBÁGYI, Irén, LÁSZLÓFI, István, KARDOS, Zsuzsanna, VARGA, Zoltán, RITZ, Imola

21: 2020/03639. 22: 2020/06/17. 43: 2024/02/01  
51: H01Q

71: Thales Nederland B.V.

72: HOGEMAN, Edwin, W. VAN OOSTERHOUT,

Winston, MAATMAN, Ivo, JONGSMA, Wiegard

33: EP(NL) 31: 17210545.4 32: 2017-12-22

#### **54: INTEGRATED ANTENNA ARRANGEMENT**

00: -

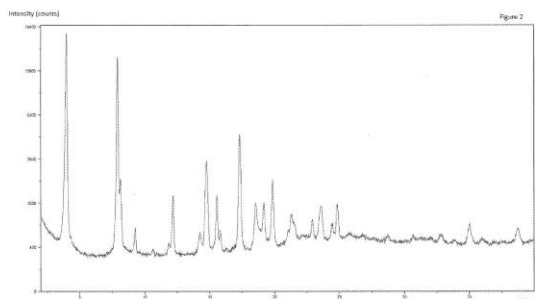
There is provided an antenna arrangement (10) comprising a directional antenna assembly (2), the directional antenna assembly comprising a directional antenna (22) intended to be mounted on an interface (50) delimited by a stationary support structure (5), the directional antenna generally extending according to a main axis (11) perpendicular to the plane defined by said interface, wherein the antenna arrangement (10) further comprises a rotatable base (3) mounted on said interface, said rotatable base (3) comprising a pole (40) integral with said rotatable base (3), said pole extending in the direction of said main axis, said rotatable base (3) being rotatable about the main axis (11), a rotation of said rotatable base actuating the rotation of the pole (40) about the main axis.

33: HU 31: P1800089 32: 2018-03-09

**54: PROCESS FOR THE PREPARATION OF POLYMORPH FORM B OF TREPROSTINIL DIETHANOLAMINE SALT**

00: -

The invention relates to a robust and reproducible process for the preparation of polymorph form B of treprostinil diethanolamine salt, comprising the following steps: a. treprostinil is dissolved in methanol, b. to the solution of step a) diethanolamine or its methanol solution is added, c. the reaction mixture of step b) is agitated till dissolution, d. when salt formation is completed in step c), first portion of an aprotic solvent is added to the solution, e. the solution of step d) is filtered to remove insoluble impurities, f. the filtrate of step e) is seeded with polymorph form B of treprostinil diethanolamine salt, g. to the crystal suspension obtained in step f) a second portion of the aprotic solvent is added, h. the suspension of step g) is agitated until crystallisation is completed, i. the crystals are separated, washed and dried.



21: 2020/05083. 22: 2020/08/17. 43: 2024/02/01

51: A61K

71: THE CHILDREN'S HOSPITAL OF PHILADELPHIA

72: LEYSSENS, TOM, COUCH, RICHARD ALAN, GUILLOT, MICHAEL PAUL RENÉ, HARMSSEN, BRAM, BAILEY, THOMAS R, APPELMANS, MARTIN

33: US 31: 62/683,325 32: 2018-06-11

33: US 31: 62/619,062 32: 2018-01-18

33: US 31: 62/668,092 32: 2018-05-07

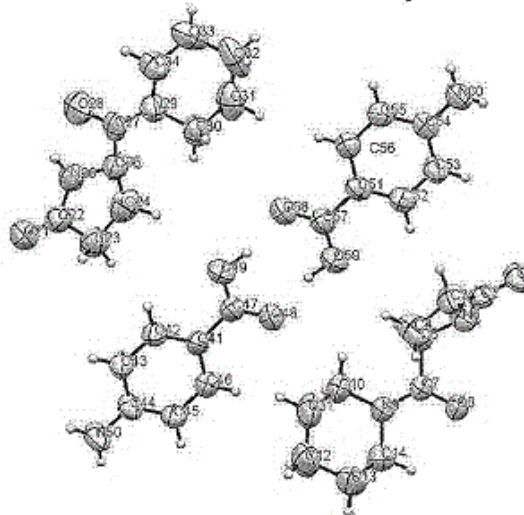
**54: SOLID FORMS OF FASORACETAM**

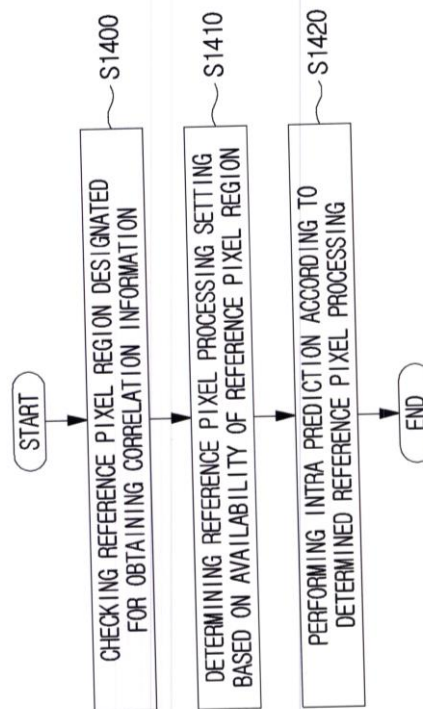
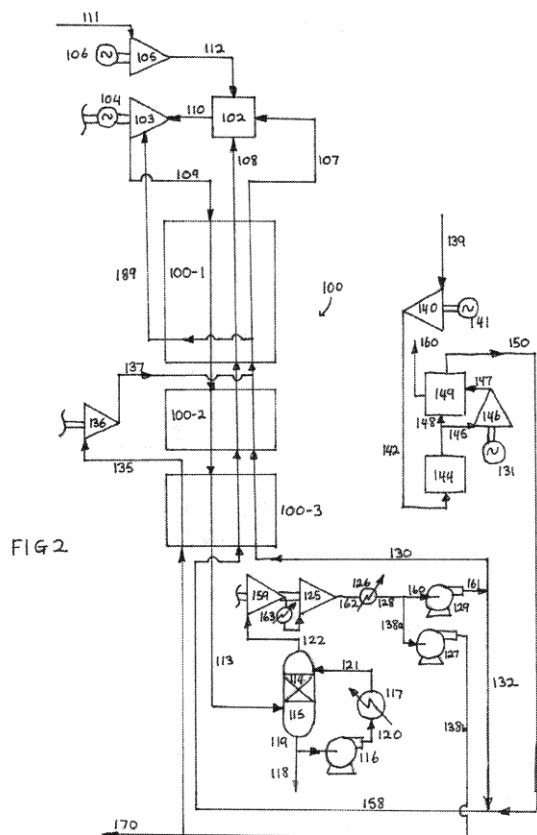
00: -

The disclosure is directed to cocrystals of fasoracetam, including R-fasoracetam, and various coformers. Crystalline materials comprising fasoracetam, including R-fasoracetam, are also provided. The disclosure further includes

pharmaceutical compositions and methods of treatment of the cocrystals and crystalline materials of the disclosure.

ORTEP of R-fasoracetam:PABA cocrystal





21: 2020/05774. 22: 2020/09/17. 43: 2024/04/15  
 51: H04N  
 71: B1 INSTITUTE OF IMAGE TECHNOLOGY, INC  
 72: KIM, Ki Baek  
 33: KR 31: 10-2018-0034174 32: 2018-03-25  
 33: KR 31: 10-2018-0034882 32: 2018-03-27  
 33: KR 31: 10-2018-0085679 32: 2018-07-24  
**54: IMAGE ENCODING/DECODING METHOD AND DEVICE**

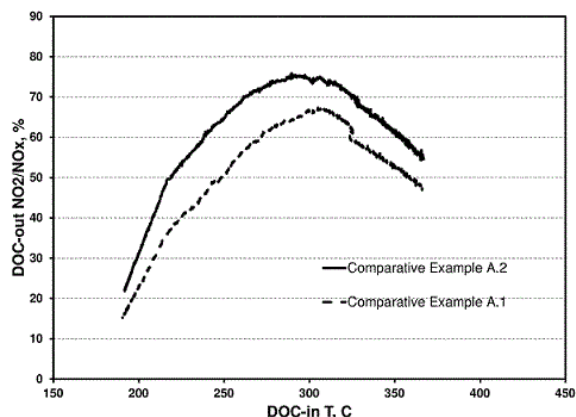
00: -  
 An intra prediction method according to the present invention may comprise: identifying a reference pixel region designated for obtaining correlation information; determining a reference pixel processing configuration on the basis of determination of the availability of the reference pixel region; and performing intra prediction according to the determined reference pixel processing. As described above, performing intra prediction on the basis of the availability of a reference pixel according to the present invention can improve encoding performance.

21: 2020/06104. 22: 2016/03/03. 43: 2024/01/29  
 51: B01J F01N

71: BASF CORPORATION  
 72: WEI, Xinyi, ROTH, Stanley, A., ZHU, Haiyang  
 33: US 31: 62/128,801 32: 2015-03-05  
**54: PLATINUM-CONTAINING CATALYSTS FOR COMBUSTION ENGINES**

00: -  
 Emissions treatment systems of combustion engines are provided, which comprise a platinum-containing catalyst that is degreened during production, which is before exposure to operating conditions of a vehicle having a diesel engine. The platinum-containing catalyst, in the form of a platinum component on a high surface area refractory metal oxide support, exhibits a vibration frequency of about 2085 to about 2105  $\text{cm}^{-1}$  as measured by CO-DRIFTS. Such catalytic material is essentially-free of platinum oxide species found at greater than about 2110  $\text{cm}^{-1}$  as measured by CO-DRIFTS. Such catalysts can provide excellent and consistent conversion of nitrogen oxide (NO) to nitrogen dioxide ( $\text{NO}_2$ ).





21: 2020/06415. 22: 2020/10/15. 43: 2024/02/14

51: A61K

71: SHINKEI THERAPEUTICS, INC.

72: BORSADIA, SURESH, PATEL, KALPANA, TAN, HOCK S

33: US 31: 62/662,456 32: 2018-04-25

#### 54: TETRABENAZINE TRANSDERMAL DELIVERY DEVICE

00: -

Provided herein are transdermal delivery devices comprising tetrabenazine, a deuterated tetrabenazine, or a combination thereof. Also provided herein are pharmaceutical compositions, such as adhesive compositions, comprising tetrabenazine, a deuterated tetrabenazine, or a combination thereof, for example, homogeneously dispersed in an adhesive, such as a pressure sensitive adhesive. Further provided herein are methods of using the transdermal delivery devices or pharmaceutical compositions, for example, for treating a hyperkinetic movement disorder.

21: 2020/06551. 22: 2020/10/21. 43: 2024/01/31

51: A24F; A61M

71: Nicoventures Trading Limited

72: LEAH, Thomas David, ALLBUTT, Bryan, HARVEY, Lisa

33: GB 31: 1807497.1 32: 2018-05-08

#### 54: AN AEROSOL PROVISION DEVICE CONFIGURED TO RECEIVE A PLURALITY OF AEROSOLISABLE MATERIALS

00: -

An aerosol provision device is configured to receive a plurality of aerosolisable materials. The aerosol provision device is configured to recognise an identity and a position of the aerosolisable materials received in the device and transmit data indicating

the identity and the position of the aerosolisable materials received in the device to a communication system.

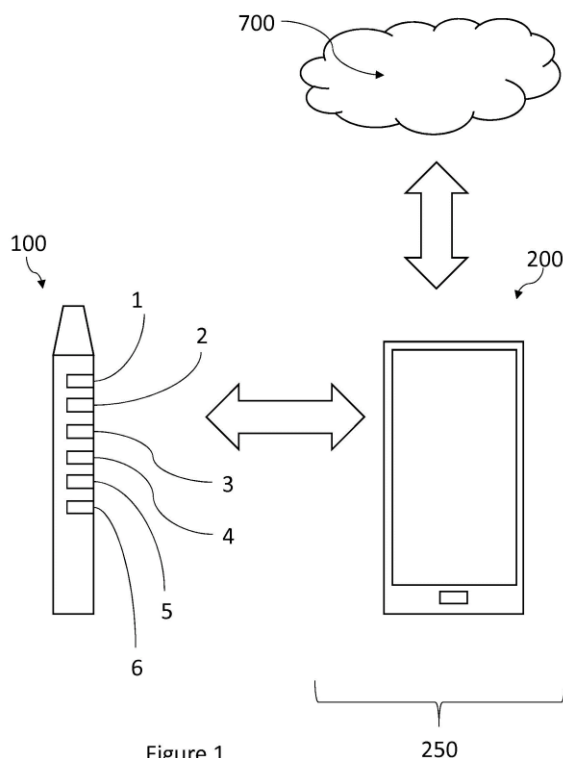


Figure 1

21: 2020/06958. 22: 2020/11/09. 43: 2024/02/01

51: B09B; B65B

71: DESPRAY HOLDING B.V.

72: OSSE, EELCO MAARTEN

33: NL 31: NL1042865 32: 2018-05-11

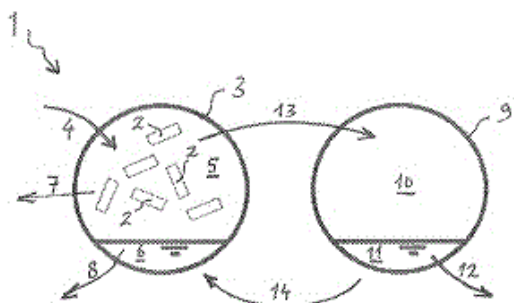
#### 54: DEVICE AND METHOD FOR PROCESSING OF SPRAY CANS

00: -

Device for processing of spray cans, the device comprising a first space, separating means for separating spray cans in the first space, a second space, first transport means for transporting gas from the first space to the second space, and compressing means for compressing gas in the second space, characterized in that the device also comprises second transport means configured and suitable for transporting heat, released during compressing of the gas, from the second space to the first space. The second transport means for instance comprise here a conduit for having a fluid, preferably a coolant, flow therethrough. Also method for processing of spray cans by means of such a device. The term 'space' is understood in the context



of the invention to mean 'a determined part of the device'. When process parameters such as heat flow, gas flow, temperatures and pressures are set correctly, solid material, active substance and propellant are discharged separately, and can then separately be further processed, destroyed or reused. Heat which is released during the compressing / condensing of gas in the second space is used to compensate for cold which is released during expansion of gas and/or evaporation of liquid in the first space. Thus it is brought about that the first space does not become too cold and the second space does not become too hot, while the whole process is energy-efficient.



21: 2020/06986. 22: 2020/11/10. 43: 2024/02/01  
51: A61K

71: EAGLE PHARMACEUTICALS, INC.  
72: WESCOTT, CHARLES, COGLAN, JILL  
33: US 31: 62/674,394 32: 2018-05-21

#### **54: DANTROLENE FORMULATIONS AND METHODS OF THEIR USE**

00: -

The disclosure is directed to liquid formulations of dantrolene, or a pharmaceutically acceptable salt thereof, and methods of their use in the treatment of disease.

21: 2020/07038. 22: 2020/11/11. 43: 2024/02/01  
51: C12C; A23L

71: CARLSBERG SUPPLY COMPANY AG  
72: SINGH, SURINDER, JAKOB, MICHAEL  
33: EP 31: 18184617.1 32: 2018-07-20

#### **54: AROMA EXTRACTION**

00: -

The invention regards an aroma extraction unit, comprising: - a hydration tank containing a mixture of plants or parts thereof and a liquid, said tank configured to contain a positive gas flow pressure, - a shearing unit configured for shearing the plants or

parts thereof, - a hydrodynamic cavitation unit, and - at least one circulation unit, wherein the hydration tank, shearing unit, cavitation unit are in fluid communication, and the at least one circulation unit is configured for circulating the mixture from the tank into the shearing unit, further into the cavitation unit, and from the cavitation unit back into the tank and/or shearing unit.

21: 2020/07045. 22: 2020/11/11. 43: 2024/02/01  
51: C01B; B01J

71: BASF SE  
72: PARVULESCU, ANDREI-NICOLAE, MCGUIRE, ROBERT, MUELLER, ULRICH, KROMER, ALEXANDER  
33: EP 31: 18185968.7 32: 2018-07-27

#### **54: PROCESS FOR PREPARING A ZEOLITIC MATERIAL HAVING A FRAMEWORK TYPE FER**

00: -

The present invention relates to a process for preparing a zeolitic material having a framework type FER and having a framework structure comprising silicon, aluminum, and oxygen, said process comprising (i) preparing an aqueous synthesis mixture comprising water; a zeolitic material having a framework type other than FER and having a framework structure comprising silicon, aluminum, and oxygen; a source of silicon other than the zeolitic material having a framework type other than FER; an organic structure directing agent comprising piperidine; a source of an alkali metal; and a source of a base; (ii) subjecting the aqueous synthesis mixture prepared according to (i) to hydrothermal synthesis conditions comprising heating the synthesis mixture to a temperature in the range of from 140 to 190 °C and keeping the synthesis mixture at a temperature in this range under autogenous pressure, obtaining a mother liquor comprising a solid material which comprises the zeolitic material having a framework type FER.

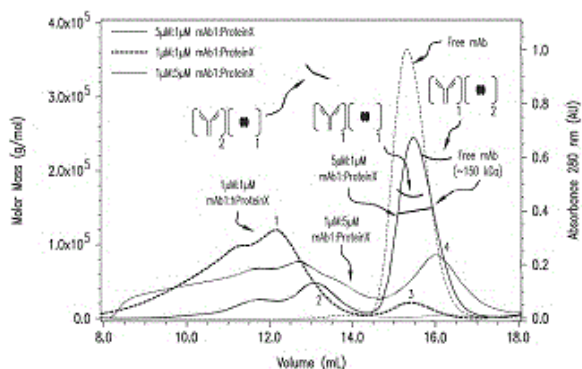
21: 2020/07067. 22: 2020/11/12. 43: 2024/02/01  
51: G01N

71: REGENERON PHARMACEUTICALS, INC.  
72: LIU, NINA, ROSCONI, MICHAEL, PYLES, ERICA  
33: US 31: 62/724,700 32: 2018-08-30

#### **54: METHODS FOR CHARACTERIZING PROTEIN COMPLEXES**

00: -

Methods for characterizing protein complexes formed between protein drug products and soluble ligands are provided herein. The disclosed methods can determine the size, heterogeneity, and conformation of protein complexes.



21: 2020/07152. 22: 2020/11/17. 43: 2024/02/01  
51: H01L

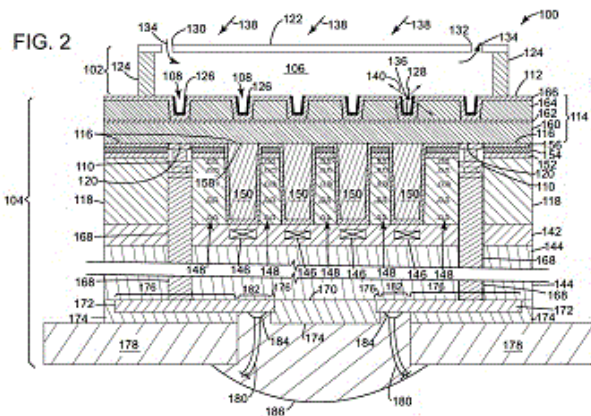
71: ILLUMINA, INC.

72: FUNG, TRACY HELEN, TRAN, HAI QUANG

**54: SENSOR SYSTEM**

00: -

A system includes an image sensor structure and a flow cell. The image sensor structure includes an image layer disposed over a base substrate. A device stack is disposed over the image layer. A bond pad is disposed in the device stack. A passivation stack is disposed over the device stack and the bond pad. An array of nanowells is disposed in a top layer of the passivation stack. A through-silicon via (TSV) is in electrical contact with the bond pad. The TSV extends through the base substrate. A redistribution layer (RDL) is disposed on a bottom surface of the base substrate. The RDL is in electrical contact with the TSV. The flow cell is disposed upon the top layer of the passivation stack to form a flow channel therebetween. The flow channel is disposed over the array of nanowells and the bond pad.



21: 2020/07173. 22: 2020/11/17. 43: 2024/02/01

51: C12Q

71: TALIS BIOMEDICAL CORPORATION

72: CAPULE, DANIEL, DEDENT, ANDREA C, LEE, MATTHEW B, MA, SHUYUAN, MAAMAR, HÉDIA, VANATTA, DANA KELLY

33: US 31: 62/669,236 32: 2018-05-09

33: US 31: 15/976,733 32: 2018-05-10

**54: POLYNUCLEOTIDES FOR THE AMPLIFICATION AND DETECTION OF CHLAMYDIA TRACHOMATIS**

00: -

The invention provides methods and compositions for the detection of Chlamydia trachomatis in a test sample. Its presence or absence in the sample is determined by nucleic acid based testing methods using primers and/or probes and or molecular beacons that bind to the 23S ribosomal genes or gene transcripts.

FIG. 1

21: 2020/07292. 22: 2020/11/23. 43: 2024/02/01

51: C08B

71: CP KELCO APS

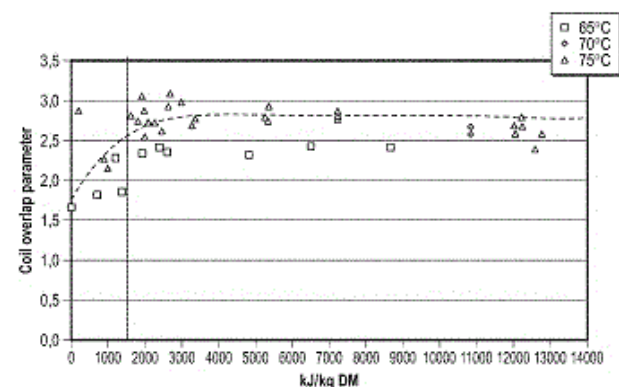
72: HANSEN, JACK HARBO, HENRIKSEN, WENCKE DYBVIK, PEDERSEN, HEIDI LIVA, PEDERSEN, TOMMY EWI, STAUNSTRUP, JAN AAE

33: US 31: 62/718,001 32: 2018-08-13

**54: ACTIVATED PECTIN-CONTAINING BIOMASS COMPOSITIONS, PRODUCTS, AND METHODS OF PRODUCING**

00: -

Methods for producing an activated pectin-containing biomass composition are provided. These methods include A) mixing a starting pectin-containing biomass material comprising an insoluble fiber component and an insoluble protopectin component with an aqueous solution of an alcohol to form a mixture; B) activating the starting pectin-containing biomass material to form an activated pectin-containing biomass material comprising the insoluble fiber component and a soluble pectin component by subjecting the starting pectin-containing biomass material to (i) an activating solution formed by adding hydrochloric acid and/or sulfuric acid to the mixture to adjust the pH of the mixture within the range from at or about 0.5 to at or about 2.5 and (ii) heat to a temperature greater than at or about 40 degrees Celsius; C) applying mechanical energy either (i) to the mixture of step A), (ii) during the activating of step B), or (iii) to the mixture of step A) and during the activating of step B); and (D) separating the activated pectin-containing biomass material from the mixture. Alcohol is generally present in the mixture at an amount of greater than about 35 weight percent based on the total weight of the mixture. Activated pectin-containing biomass compositions are also provided.



21: 2020/07299. 22: 2020/11/24. 43: 2024/02/01

51: H01L

71: ILLUMINA, INC.

72: CAI, XIUYU, PINTO, JOSEPH FRANCIS, BAKER, THOMAS A, FUNG, TRACY HELEN

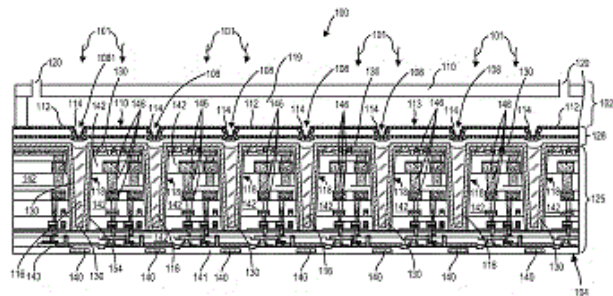
33: US 31: 62/609,889 32: 2017-12-22

33: NL 31: 2020612 32: 2018-03-19

**54: LIGHT DETECTION DEVICES WITH PROTECTIVE LINER AND METHODS RELATED TO SAME**

00: -

A device comprising a reaction structure and a device base. The reaction structure forms a plurality of reaction recesses for containing a reaction solution with a pH of less than or equal to about 5 or a pH greater than or equal to about 8 and at least one reaction site that generates light emissions in response to incident excitation light after treatment with the reaction solution. The device base is positioned beneath the reaction structure and comprises a plurality of light sensors, device circuitry, a plurality of light guides, a liner layer and a protection layer. The device circuitry electrically is coupled to the light sensors to transmit data signals based on photons detected by the light sensors, wherein the device circuitry is provided within dielectric material layers. The light guides have input regions that receive the excitation light and the light emissions from at least one corresponding reaction recess, the light guides extending into the device base from the input regions toward at least one corresponding light sensor and comprising at least one filter material that filters the excitation light and permits the light emissions to pass to the at least one corresponding light sensor. The liner layer extends about the side surfaces of each light guide and is positioned between each light guide and the device circuitry. The protection layer extends about each light guide and positioned between each light guide and the liner layer that prevents reaction solution that passes through the reaction structure and the light guide from interacting with the device circuitry, wherein the protection layer is chemically inert with respect to the reaction solution.



21: 2020/07682. 22: 2020/12/09. 43: 2024/02/20  
51: A61K; A61P; C12N

71: NIPPON SHINYAKU CO., LTD.

72: UNO, TOMONORI, NATSUKAWA, TAKASHI, EGAWA, YUICHI, SATOU, YOUHEI

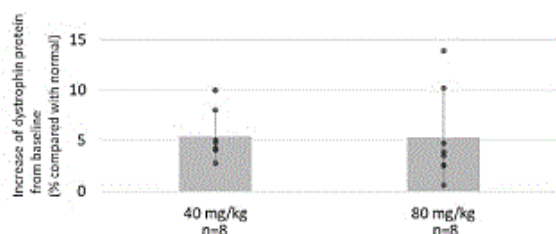
33: US 31: 62/690,270 32: 2018-06-26

33: US 31: 62/739,386 32: 2018-10-01

#### **54: COMPOSITION COMPRISING ANTISENSE OLIGONUCLEOTIDE AND USE THEREOF FOR TREATMENT OF DUCHENNE MUSCULAR DYSTROPHY**

00: -

The present invention relates to a composition containing an antisense oligonucleotide and a use thereof for the treatment of Duchenne muscular dystrophy. The present invention, specifically, relates to the composition effective for the treatment of Duchenne muscular dystrophy when administered at a treatment dose, and a use thereof.



21: 2020/07715. 22: 2020/12/10. 43: 2024/02/15  
51: C02F

71: THE WATER COMPANY, LLC

72: PETER ROBERT NORMAN, BRIAN BRUCE ELSON, MICHAEL JAMES FALLBACH

33: US 31: 62/684,370 32: 2018-06-13

33: US 31: 16/439,381 32: 2019-06-12

#### **54: CONTROLLED REMOVAL OF IONS FROM AQUEOUS FLUID**

00: -

Methods and systems for removal of ions from aqueous fluids are provided. In certain

embodiments, the present disclosure provides a method of removing one or more oxyanions from an aqueous fluid, including the steps of contacting an aqueous fluid containing oxyanions with an aluminum metal whereby aluminum ions are released from the aluminum metal into the aqueous fluid, wherein the one or more oxyanions in the aqueous fluid react with the aluminum ions to form one or more ettringites; controlling a rate of release of the aluminum ions from the aluminum metal; and removing at least a portion of precipitated ettringites from the aqueous fluid.

21: 2020/07837. 22: 2020/12/15. 43: 2024/02/21  
51: B01L; H01L

71: ILLUMINA, INC.

72: ZIMMERLEY, MAXWELL, QIANG, LIANGLIANG, BOWEN, M. SHANE, MODIANO, STEVEN H, YUAN, DAJUN, SMITH, RANDALL, PITERA, ARTHUR J, TRAN, HAI QUANG, KREINDL, GERALD

33: NL 31: 2021377 32: 2018-07-23

33: US 31: 62/693,762 32: 2018-07-03

#### **54: INTERPOSER WITH FIRST AND SECOND ADHESIVE LAYERS**

00: -

An interposer for a flow cell comprises a base layer having a first surface and a second surface opposite the first surface. The base layer comprises black polyethylene terephthalate (PET). A first adhesive layer is disposed on the first surface of the base layer. The first adhesive layer comprises methyl acrylic adhesive. A second adhesive layer is disposed on the second surface of the base layer. The second adhesive layer comprises methyl acrylic adhesive. A plurality of microfluidic channels extends through each of the base layer, the first adhesive layer, and the second adhesive layer.

21: 2020/07840. 22: 2020/12/15. 43: 2024/02/21  
51: C12Q

71: ILLUMINA, INC.

72: FISHER, JEFFREY S, GUO, MINGHAO

33: US 31: 62/782,279 32: 2018-12-19

#### **54: METHODS FOR IMPROVING POLYNUCLEOTIDE CLONALITY PRIORITY**

00: -

The present invention is concerned with compositions and methods for improving the



generation of monoclonal clusters in an array by tuning the degree of homology between target nucleic acid adapters and the primers attached to the array to encode a kinetic delay into seeded target nucleic acids.

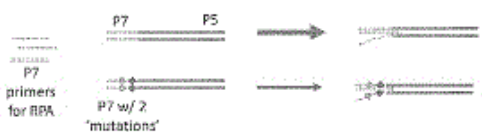


FIG. 4A

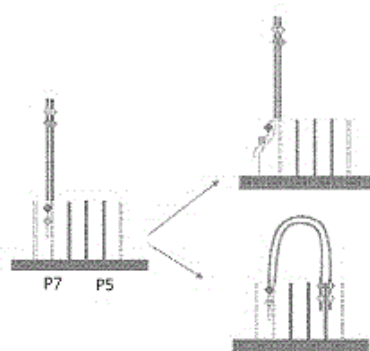


FIG. 4B

21: 2020/07846. 22: 2020/12/15. 43: 2024/02/21

51: G01N; B01L

71: ILLUMINA, INC.

72: RIVAL, ARNAUD, AGAH, ALI, FUNG, TRACY H, DEHLINGER, DIETRICH, SABOUNCHI, POORYA, KHURANA, TARUN, CIESLA, CRAIG M, BOWEN, M. SHANE

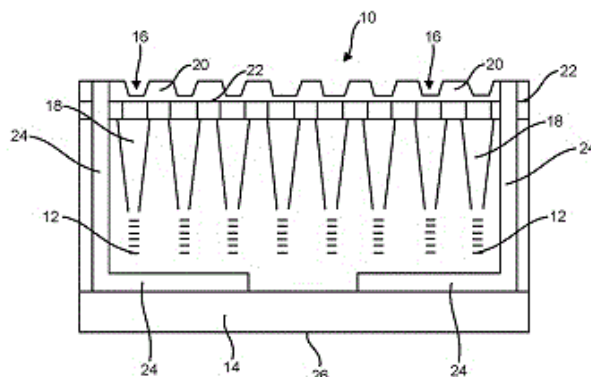
33: US 31: 62/731,785 32: 2018-09-14

#### **54: FLOW CELLS AND METHODS RELATED TO SAME**

00: -

Flow cells and corresponding methods are provided. The flow cells may include a support frame with top and back sides, and at least one cavity extending from the top side. The flow cells may include at least one light detection device with an active area disposed within the at least one cavity. The flow cells may include a support material disposed within the at least one cavity between the support frame and the periphery of the at least one light detection device coupling them together. The flow cells may include a lid extending over the at least one light detection device and coupled to the support frame about the periphery of the at least one light detection device. The lid and at least a top surface of the at

least one light detection device form a flow channel there between.



21: 2020/07847. 22: 2020/12/15. 43: 2024/02/21

51: G01N

71: ILLUMINA, INC.

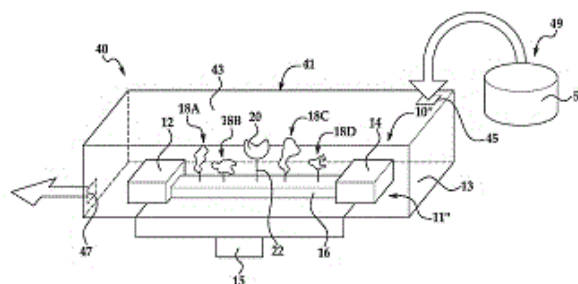
72: BOYANOV, BOYAN, PEISAJOVICH, SERGIO, MANDELL, JEFFREY G

33: US 31: 62/783,951 32: 2018-12-21

#### **54: SENSING SYSTEMS**

00: -

A sensing system includes a charge sensor including two electrodes and an electrically conductive channel connecting the two electrodes. The sensing system also includes a charged molecule attached to the electrically conductive channel. The charged molecule includes a recognition site to reversibly bind a label of a labeled nucleotide; has an unbound favored conformation associated with an unbound charge configuration; and has a favored conformation associated with a charge configuration when the recognition site is bound to the label. The charge configuration is different from the unbound charge configuration. The sensing system further includes a polymerase attached to the electrically conductive channel or to the charged molecule.





21: 2020/07851. 22: 2020/12/15. 43: 2024/02/21  
51: G01N; H01L  
71: ILLUMINA, INC.

72: EMADI, ARVIN, RIVAL, ARNAUD, AGAH, ALI  
33: US 31: 62/850,894 32: 2019-05-21

#### **54: SENSORS HAVING AN ACTIVE SURFACE**

00: -

Disclosed in one example is an apparatus including a substrate, a sensor over the substrate including an active surface and a sensor bond pad, a molding layer over the substrate and covering sides of the sensor, the molding layer having a molding height relative to a top surface of the substrate that is greater than a height of the active surface of the sensor relative to the top surface of the substrate, and a lidding layer over the molding layer and over the active surface. The lidding layer and the molding layer form a space over the active surface of the sensor that defines a flow channel.

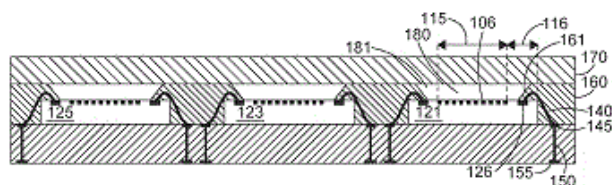


FIG. 5B

21: 2020/07852. 22: 2020/12/15. 43: 2024/02/21  
51:  
71: ILLUMINA CAMBRIDGE LIMITED, ILLUMINA, INC.

72: EVANS, GERAINT, HONG, STANLEY S  
33: US 31: 62/868,423 32: 2019-06-28

#### **54: FLOWCELLS WITH LINEAR WAVEGUIDES**

00: -

For example, a flowcell includes: a nanowell layer having a first set of nanowells and a second set of nanowells to receive a sample; a first linear waveguide associated with the first set of nanowells, and a second linear waveguide associated with the second set of nanowells; and a first grating for the first linear waveguide, and a second grating for the second linear waveguide, the first and second gratings providing differential coupling of first light and second light.

21: 2021/00338. 22: 2021/01/18. 43: 2024/02/08  
51: A23L  
71: RED BULL GMBH

72: NACHBAGAUER, Josef, URBAN-KLIK, Manfred, BOEHRINGER, Volker

33: US 31: 15/395,432 32: 2016-12-30

33: EP 31: 16207626.9 32: 2016-12-30

#### **54: SWEETENING COMPOSITIONS**

00: -

The invention relates to a sweetening composition comprising a natural sweet-tasting carbohydrate, a stevia compound, rubusoside, and tannin, wherein component d) is present in an amount in the range from 1 mg/l to 400 mg/l. The invention also relates to a sweetening composition comprising a natural sweet-tasting carbohydrate, a stevia compound, rubusoside, tannin and oak extract or pomegranate extract. The invention further relates to a sweetening composition comprising acesulfam or aspartame, sucralose, a stevia compound, saccharin or cyclamate, neohesperidin, and tannin in an amount in the range from 1 mg/l to 400 mg/l. Moreover, the invention relates to a sweetening composition comprising a) 0,1 to 50 g/l of a natural sweet-tasting carbohydrate, b) 40 to 120 g/l of a natural sweet-tasting carbohydrate different from a), and c) 30 to 300 mg/l of rubusoside. And, the invention is about the use of said sweetening compositions for sweetening and preparing beverages.

21: 2021/01768. 22: 2021/03/16. 43: 2024/04/03  
51: B02C

71: LYCOPODIUM MINERALS PTY LTD

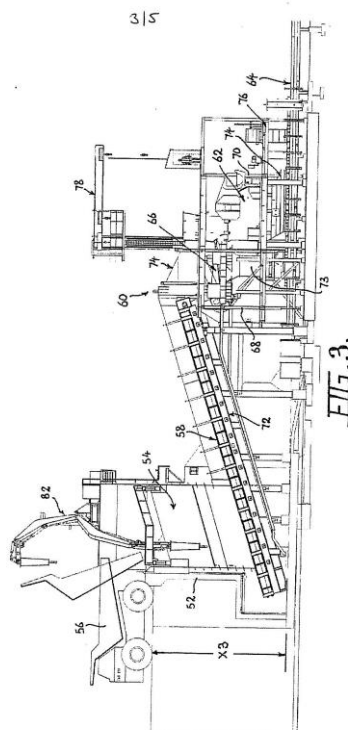
72: RUGGIERO, Bruno, LUIES, Johan

33: AU 31: 202090426 32: 2020-07-14

#### **54: LOW HEADROOM JAW CRUSHING FACILITY**

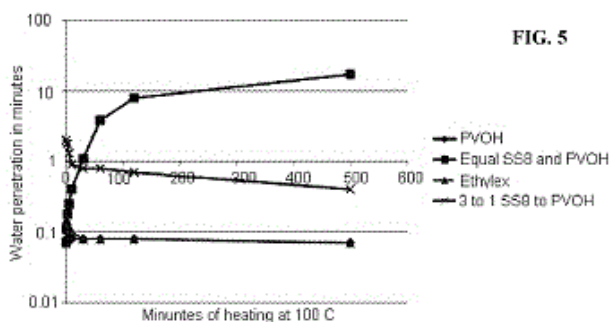
00: -

A low headroom jaw crushing facility comprising: a structure housing a Run of Mine (ROM) bin 54 for receiving ROM ore from either a dump truck 56 or front end loader (FEL), and a primary feeder 58 for conveying ROM ore delivered to the ROM bin 54 to an adjacent crushing circuit 60. The crushing circuit 60 comprises: a jaw crusher 62 for crushing coarse oversize ore and, a discharge conveyor 64 for collecting dribble from the primary feeder 58 and discharge product from the jaw crusher 62, and transporting it to a next processing stage.



21: 2021/02365. 22: 2021/04/09. 43: 2024/02/01  
 51: D21H; C07H; C11C; C09D  
 71: GREENTECH GLOBAL PTE, LTD.  
 72: SPENDER, JONATHAN, BILODEAU, MICHAEL  
 ALBERT, MIKAIL, SAMUEL  
 33: US 31: 62/730,241 32: 2018-09-12  
**54: BIOBASED BARRIER COATINGS**  
 00: -

The present invention describes tunable methods of treating cellulosic materials with a barrier coating comprising a prolamine and at least one polyol fatty acid ester that provides increased oil and/or grease resistance to such materials without sacrificing the biodegradability thereof. The methods as disclosed provide for adhering of the barrier coating on articles including articles comprising cellulosic materials and articles made by such methods. The materials thus treated display higher lipophobicity and may be used in any application where such features are desired.



21: 2021/02492. 22: 2021/04/15. 43: 2024/02/09  
 51: A61P; C07K  
 71: ONCOPEPTIDES AB  
 72: LEHMANN, FREDRIK  
 33: GB 31: 1816998.7 32: 2018-10-18  
 33: GB 31: 1909695.7 32: 2019-07-05  
**54: COMPOUNDS CONTAINING DEUTERIUM**  
 00: -

The invention provides a compound of formula (I), or a pharmaceutically acceptable salt thereof (Formula I), wherein, each R1-R30 is independently selected from the group consisting of H and deuterium, and at least one of R1-R30 is deuterium with an abundance level greater than the naturally occurring abundance of deuterium. The invention also provides pharmaceutical compositions containing the compounds, and uses of the compounds.

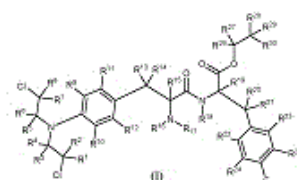
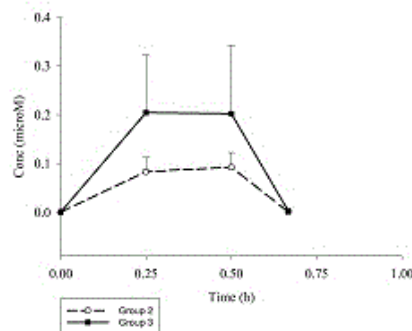


Figure 1



21: 2021/02941. 22: 2021/04/30. 43: 2024/02/01  
 51: A24F

71: AYR LTD

72: GRETTON, MARK, MURISON, IAN

33: GB 31: 1818020.8 32: 2018-11-05

33: GB 31: 1816618.1 32: 2018-10-12

33: GB 31: 1902548.5 32: 2019-02-26

**54: ELECTRONIC VAPING SYSTEM**

00: -

A re-fillable liquid tip or pod for a vaping device that includes capacitive sensor plates in the tip liquid reservoir. A liquid re-filling device provides liquid to the vaping device, drawn from a refill bottle; the re-filling device includes a capacitance measuring circuit; a microcontroller uses the data from the capacitance measuring circuit to determine if the level of liquid in the tip liquid reservoir is above or below a threshold level; if below, then a liquid pump in the re-filling device is activated to draw liquid from the refill bottle and pump it through the vaping device and up into the tip liquid reservoir. Pumping ceases once the liquid reaches the threshold level.

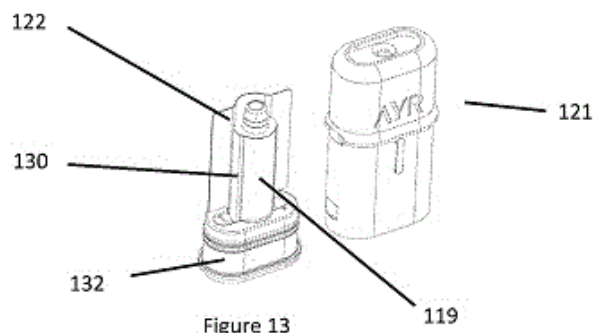


Figure 13

21: 2021/03675. 22: 2021/05/28. 43: 2024/03/27

51: G01N

71: CHARITÉ - UNIVERSITÄ TSMEDIZIN BERLIN  
KÖRPERSCHAFTDES ÖFFENTLICHEN RECHTS,  
LABOR BERLIN - CHARITÉ VIVANTES SERVICES  
GMBH

72: BACHER, Petra, MANTEI, Andrej, MEISEL,  
Christian, MEYER, Tim, SCHEFFOLD, Alexander,  
VOLK, Hans-Dieter

33: DE 31: 10 2018 131 696.8 32: 2018-12-11

**54: METHOD FOR ANALYZING A BLOOD  
SAMPLE FROM A HUMAN FOR A  
TUBERCULOSIS DISEASE BY DETECTION OF  
TB ANTIGEN-STIMULATED CD154 EXPRESSION  
IN COMBINATION WITH CD38, KI-67 OR HLA-DR**

00: -

The invention relates to a method for analyzing a blood sample (100) from a human for a tuberculosis disease based on tuberculosis bacteria, comprising

the following steps: - providing cells (110) from the blood sample (100), - stimulating the provided cells (110) with tuberculosis antigens for induction of at least one presence marker (PM) on T cells of the provided cells (110), - labeling at least one of the induced presence markers (PM) on T cells in the provided cells (110), which marker is specifically formed on T cells which recognized tuberculosis antigen during the stimulation, - labeling at least one status marker (SM) on T cells in the provided cells (110), which marker is specific for the activation status thereof and differs from at least one presence marker (PM), - evaluating the labeling outcome of the labeling steps by means of analysis of the frequency of T cells of the provided cells (110) having labeled status marker (SM) and labeled presence marker (PM) or by means of analysis of the labeling intensity of the status marker (SM) in the provided cells (110) having labeled presence marker (PM) and comparison with a combination limit (CL).

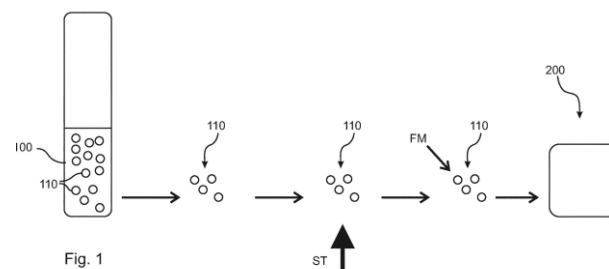


Fig. 1

21: 2021/04322. 22: 2021/06/23. 43: 2024/02/01

51: B32B C08K

71: Röhm GmbH

72: GUÉNANTEN, Claude, SEYOUM, Ghirmay,  
ENDERS, Michael, GROOTHUES, Herbert,  
STRUWE, Kim

33: EP 31: 18209151.2 32: 2018-11-29

**54: ACRYLIC FOILS WITH IMPROVED UV-  
PROTECTION PROPERTIES**

00: -

The present invention relates to a transparent weathering resistant foil for protection of various substrates against solar radiation. In one embodiment of the invention the foil comprises at least two layers A and B, wherein the spectral transmittance of the layer A at any wavelength  $\lambda_A$  is not more than 10%; wherein  $270 \text{ nm} \leq \lambda_A \leq 360 \text{ nm}$ ; and the spectral transmittance of the layer B at any wavelength  $\lambda_B$  is not more than 10%; wherein  $270 \text{ nm} \leq \lambda_B \leq 370 \text{ nm}$ . In a further embodiment of the invention the foil comprises at least two layers A and B, wherein the spectral transmittance of the layer A

at any wavelength  $\lambda_A$  is not more than 20%; wherein  $270 \text{ nm} \leq \lambda_A \leq 310 \text{ nm}$ ; and the spectral transmittance of the layer B at any wavelength  $\lambda_B$  is not more than 10%; wherein  $270 \text{ nm} \leq \lambda_B \leq 370 \text{ nm}$ .

21: 2021/04551. 22: 2021/06/30. 43: 2024/02/01

51: G06K

71: WHEELRIGHT LIMITED

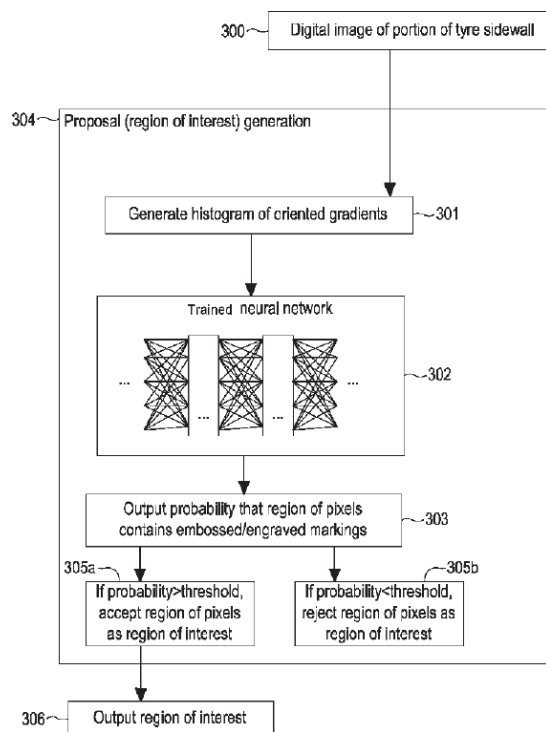
72: KAZMI, Syed Wajahat Ali Shah, NABNEY, Ian Thomas, VOGIATZIS, George, CODD, Alexander Paul

33: GB 31: 1900915.8 32: 2019-01-23

**54: TYRE SIDEWALL IMAGING METHOD**

00: -

A computer implemented method for generating a region of interest on a digital image of a sidewall of a tyre, the sidewall having one or more embossed and/or engraved markings, is provided. The method comprises generating a histogram of oriented gradients feature map of the digital image, inputting the histogram of oriented gradients feature map into a trained convolutional neural network, wherein said trained convolutional neural network is configured to output a first probability based on the input histogram of oriented gradients feature map that a region of pixels of the digital image contains the embossed and/or engraved markings, and if the first probability is at or above a first predetermined threshold, accepting said region of pixels as said region of interest.



21: 2021/05684. 22: 2021/08/11. 43: 2024/02/14

51: G01M

71: UNIVERSITY OF PRETORIA

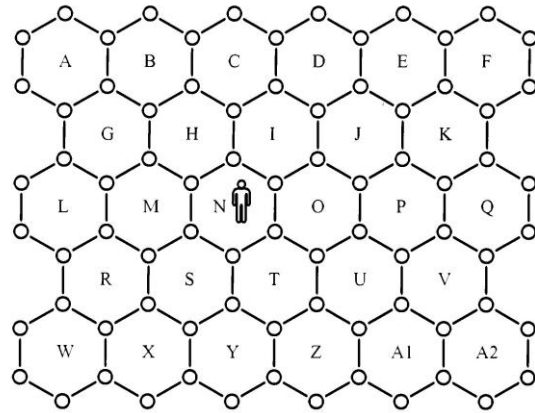
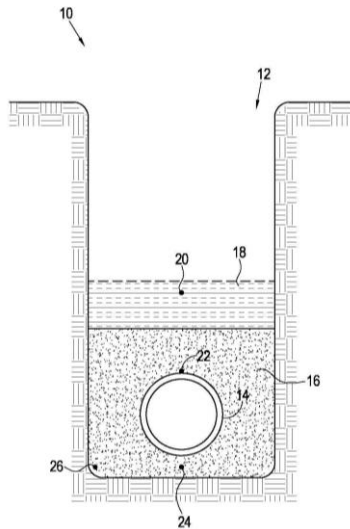
72: JACOBSZ, Schalk Willem, JAHNKE, Sebastian

33: ZA 31: 2019/01045 32: 2019-02-19

**54: METHOD OF DETECTING LEAKAGE FROM A PIPELINE**

00: -

The invention provides a method of and an arrangement for detecting leakage from a pipeline installed in a substrate. The arrangement includes a fibre-optic cable positioned in the substrate in the vicinity of the pipeline and a strain monitoring arrangement configured to monitor strain in the fibre-optic cable and to detect localized changes in the monitored strain. A processor is provided to which the strain monitoring arrangement is connected and which is configured to determine whether the detected change in strain is indicative of a leak in the pipeline and to generate a signal in response thereto.



21: 2021/05797. 22: 2021/08/13. 43: 2024/02/19  
 51: H04L; H04W  
 71: nChain Holdings Limited  
 72: WRIGHT, Craig Steven, JOSEPH, Daniel  
 33: GB 31: 1901391.1 32: 2019-02-01  
**54: COMPUTER IMPLEMENTED SYSTEM AND METHOD FOR DETERMINING OR VERIFYING LOCATION**

00: -

A computer implemented method is provided, which comprises the steps of: broadcasting a request for location data; receiving from a plurality of nodes location data comprising a distance and a public key corresponding to an area proximal to that node; selecting a public key which is common to a set of the plurality of nodes; and requesting the set of nodes to participate in threshold secret sharing to obtain a cryptographic signature associated with the common public key. The method makes use of a blockchain for communicating and verifying data, and includes transferring control of a transaction using the cryptographic signature obtained.

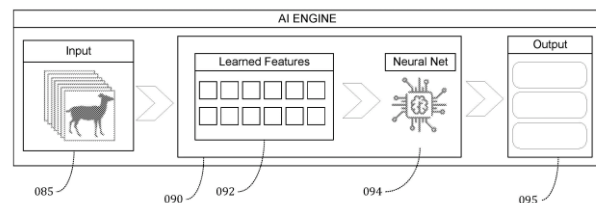
21: 2021/06289. 22: 2021/08/30. 43: 2024/04/10  
 51: A63B; G08B; H04N  
 71: AI CONCEPTS, LLC  
 72: SAMPLES, Johnathan  
 33: US 31: 16/297,502 32: 2019-03-08

**54: INTELLIGENT RECOGNITION AND ALERT METHODS AND SYSTEMS**

00: -

An intelligent target object detection and alerting platform may be provided. The platform may receive a content stream from a content source. A target object may be designated for detection within the content stream. A target object profile associated with the designated target object may be retrieved from a database of learned target object profiles. The learned target object profiles may be associated with target objects that have been trained for detection. At least one frame associated with the content stream may be analyzed to detect the designated target object. The analysis may comprise employing a neural net, for example, to detect each target object within each frame. A parameter for communicating target object detection data may be specified. In turn, when the parameter is met, the detection data may be communicated.

100



21: 2021/06298. 22: 2021/08/30. 43: 2024/01/24  
 51: A24F  
 71: Nicoventures Trading Limited



72: MOLONEY, Patrick

33: GB 31: 1903537.7 32: 2019-03-15

**54: FLOW DIRECTING MEMBER FOR A VAPOUR PROVISION SYSTEM**

00: -

A flow directing member (60) for a vapour provision system is configured for engagement with an opening (46) in a wall of a housing (42) defining a reservoir (50) for aerosolisable substrate material and with an opening (52) in a wall of the housing defining an air flow passage (54), and has a liquid flow channel (63) extending therethrough from a liquid inlet to a liquid outlet such that when the flow directing member is engaged with the housing, the liquid inlet is in communication with the reservoir and the liquid outlet is in communication with a volume for aerosol generation external to the reservoir so that aerosolisable substrate material can flow from the reservoir to the volume; and an aerosol flow channel (66) extending therethrough from an aerosol inlet to an aerosol outlet such that when the flow directing member is engaged with the housing, the aerosol inlet is in communication with the volume and the aerosol outlet is in communication with the air flow passage so that aerosol can flow from the volume to the air flow passage. A housing for a cartomiser portion of a vapour provision system is also provided.

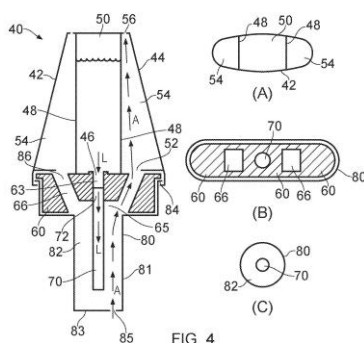


FIG. 4

21: 2021/06555. 22: 2021/09/07. 43: 2024/03/18

51: B65D

71: PHILIP MORRIS PRODUCTS S.A.

72: DAYIOGLU, Onur, LANGE, Ross, POLIER, Julie, SINGH, Digvijay

33: EP 31: 19192176.6 32: 2019-08-16

**54: CONTAINER HAVING BOX AND SLEEVE WITH LOCKING MECHANISM**

00: -

A container (1) for consumer goods, the container comprises an outer sleeve (20) and inner box (10) disposed within the outer sleeve (20), and configured to slide within the outer sleeve (20) between: a first position, in which the interior of the inner box (10) cannot be accessed by a user; and a second position, in which the interior of the inner box (10) can be accessed by a user. The container (1) having a locking mechanism for preventing the inner box (10) from sliding from the first position to the second position, when the inner box (10) is in the first position in the outer sleeve (20). (FR)

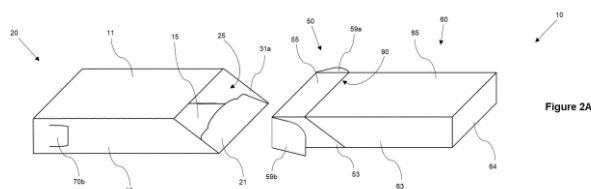


Figure 2A

21: 2021/06987. 22: 2021/09/20. 43: 2024/01/29

51: E21D

71: HYPERTUNNEL IP LIMITED

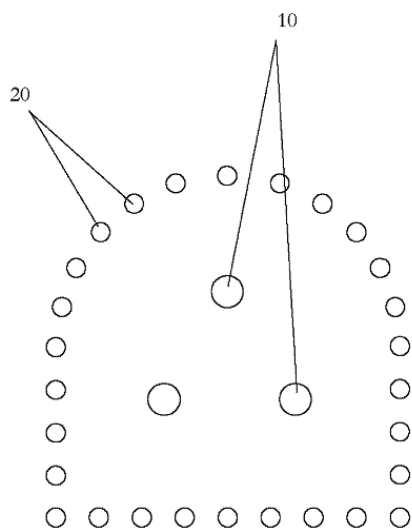
72: JORDAN, Stephen

33: GB 31: 1903979.1 32: 2019-03-22

**54: METHOD AND SYSTEM OF CONSTRUCTING AN UNDERGROUND TUNNEL**

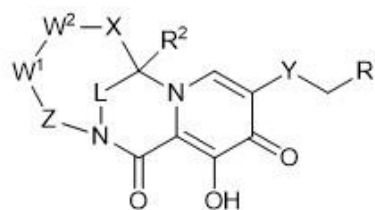
00: -

Long tunnels of many kilometres are likely to pass through a range of geologies which may cause problems. Conventional methods involve sampling the geology along a proposed tunnel's length and extrapolating from those samples. The present invention seeks to overcome the disadvantages of the prior art by: drilling a first bore 10 along a first predetermined path, the first bore having a length of at least 25m; drilling a plurality of second bores 20 along respective second predetermined paths, each substantially parallel to the first predetermined path in order to define a substantially prism-shape region therebetween; and excavating material within the substantially prism-shape region to form a tunnel. In this way, data from drilling the first bore 10 and the plurality of second bores 20 can be recorded and used to inform operators as to the types of material through which they will be excavating. Thus, a more complete view of the underlying geology can be achieved before beginning excavations.



21: 2021/07015. 22: 2021/09/20. 43: 2024/03/07  
 51: A61K; C07D; A61P  
 71: Gilead Sciences, Inc.  
 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: 2019-03-22  
 33: US 31: 62/948,697 32: 2019-12-16  
**54: BRIDGED TRICYCLIC CARBAMOYL PYRIDONE COMPOUNDS AND THEIR PHARMACEUTICAL USE**

00: -  
 Compounds for use in treating or preventing human immunodeficiency virus (HIV) infection are disclosed. The compounds have the following formula (I), including stereoisomers and pharmaceutically acceptable salts thereof, wherein R<sup>1</sup>, R<sup>2</sup>, L, W<sup>1</sup>, W<sup>2</sup>, X, Y, and Z are as defined herein. Methods associated with the preparation and use of such compounds, as well as pharmaceutical compositions comprising such compounds, are also disclosed.

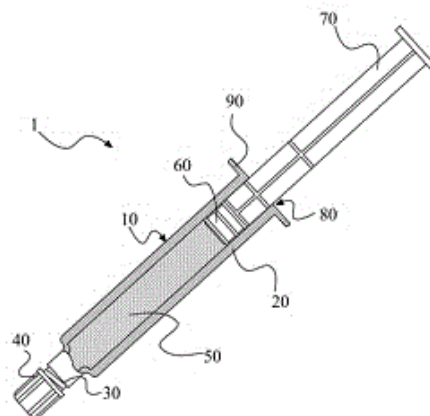


I

21: 2021/07493. 22: 2021/10/05. 43: 2024/02/29  
 51: C01B; C08L; A61M; A61J; A61L  
 71: KORTUC JAPAN LLC  
 72: YAMASHITA, SHOHO  
 33: JP 31: 2019-107227 32: 2019-06-07  
 33: JP 31: 2019-107223 32: 2019-06-07  
 33: JP 31: 2019-068797 32: 2019-03-29  
 33: JP 31: 2019-078110 32: 2019-04-16

**54: HYDROGEN PEROXIDE SOLUTION-PREFILLED SYRINGE HAVING EXCELLENT HYDROGEN PEROXIDE PRESERVABILITY BY VIRTUE OF SILICONE OIL (OIL COMPOSITION CONTAINING SAID SILICONE OIL)**

00: -  
 Provided is a syringe that suppresses the decomposition of hydrogen peroxide. The present invention provides a syringe which is prefilled with a hydrogen peroxide solution. In said syringe, at least a barrel is made of a material having high decomposition ability of hydrogen peroxide, and the barrel has an inner wall coated with an oil composition containing a silicone oil.



21: 2021/07816. 22: 2021/10/14. 43: 2024/01/31

51: G01S; G05D

71: Sandvik Mining and Construction Oy

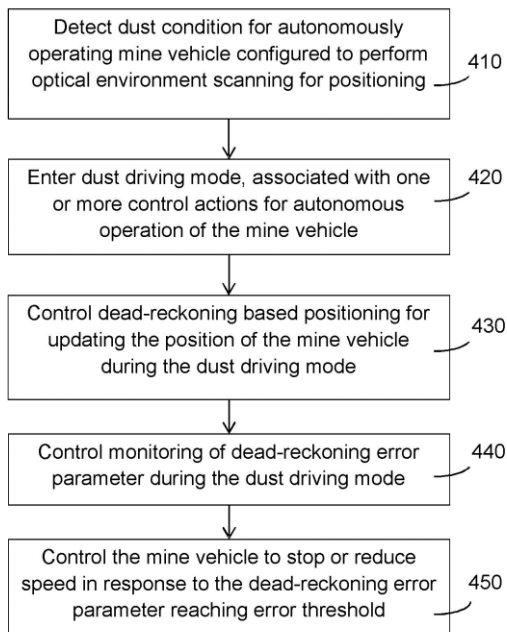
72: SANERMA, Simo, LEHTINEN, Antti,  
PARKKINEN, Teemu, PAJALA, Esa, PULLI, Riku

33: EP(FI) 31: 19174444.0 32: 2019-05-14

**54: AUTONOMOUS MINE VEHICLE OPERATION**

00: -

According to an example aspect of the present invention, there is provided a method, comprising: detecting a dust condition for an autonomously operating mine vehicle performing optical environment scanning for positioning the mine vehicle at a worksite, transitioning the mine vehicle operating in an automatic driving mode to a dust driving mode in response to detecting the dust condition, the dust driving mode being associated with one or more control actions for autonomous operation of the mine vehicle, controlling dead-reckoning based positioning for updating the position of the mine vehicle during the dust driving mode, monitoring of a dead-reckoning error parameter during the dust driving mode, and in response to the dead-reckoning error parameter reaching an error threshold, controlling the mine vehicle to stop or reduce speed.



72: VAN GEEST, Bartholomeus Wilhelmus

Damianus, KROON, Bart

33: EP(NL) 31: 19163678.6 32: 2019-03-19

**54: IMAGE SIGNAL REPRESENTING A SCENE**

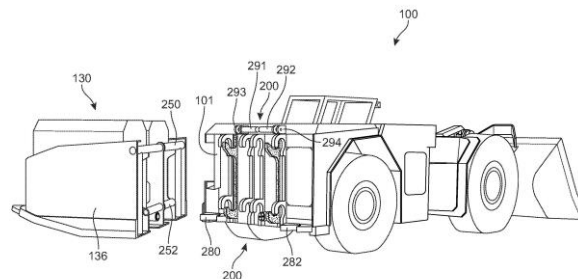
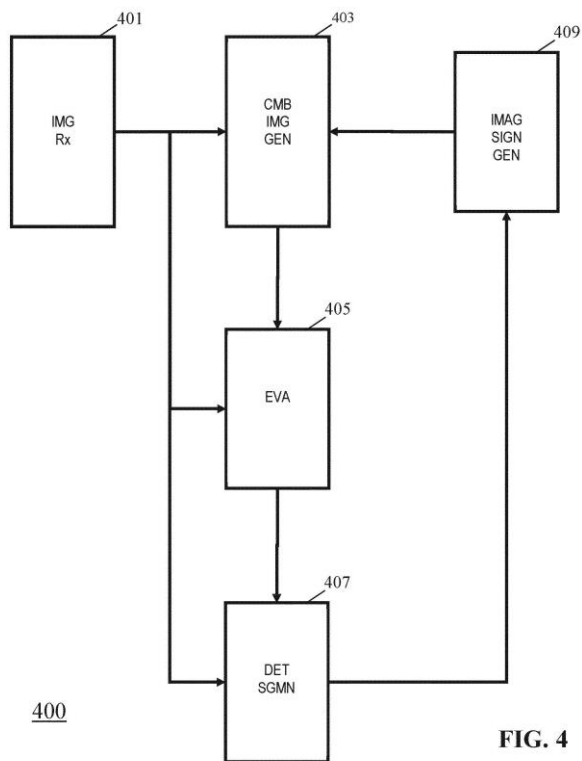
00: -

Generating an image signal comprises a receiver (401) receiving source images representing a scene. A combined image generator (403) generates combined images from the source images. Each combined image is derived from only parts of at least two images of the source images. An evaluator (405) determines prediction quality measures for elements of the source images where the prediction quality measure for an element of a first source image is indicative of a difference between pixel values in the first source image and predicted pixel values for pixels in the element. The predicted pixel values are pixel values resulting from prediction of pixels from the combined images. A determiner (407) determines segments of the source images comprising elements for which the prediction quality measure is indicative of a difference above a threshold. An image signal generator (409) generates an image signal comprising image data representing the combined images and the segments of the source images.

21: 2021/07934. 22: 2021/10/18. 43: 2024/02/19

51: G06T; H04N

71: Koninklijke Philips N.V.



21: 2021/08263. 22: 2021/10/26. 43: 2024/01/31  
51: A61K; A61P; C07D

71: Merck Patent GmbH

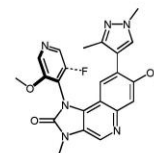
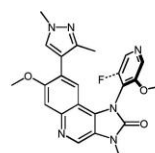
72: FUCHSS, Thomas, BECKER, Axel, KUBAS, Holger, GRAEDLER, Ulrich

33: EP(DE) 31: 19165664.4 32: 2019-03-27

#### **54: IMIDAZOLONYLQUINOLINE COMPOUNDS AND THERAPEUTIC USES THEREOF**

00: -

The present invention relates to atropisomers, solid forms, salt forms and deuterated derivatives of the ATM inhibitor 8-(1,3-Dimethyl-1H-pyrazol-4-yl)-1-(3-fluoro-5-methoxy-pyridin-4-yl)-7-methoxy-3-methyl-1,3-dihydroimidazo[4,5-c]quinolin-2-one as well as compositions thereof. The stable atropisomers do not interconvert and are represented by the following formulae: Compound1, Compound2



21: 2021/08301. 22: 2021/10/27. 43: 2024/01/31  
51: A61B

71: SONOVUM GMBH

72: WROBEL, Miroslaw

33: EP 31: 19166970.4 32: 2019-04-03

#### **54: METHOD AND DEVICE FOR A NON-INVASIVE DETERMINATION AND/OR MONITORING OF INTRACRANIAL COMPLIANCE**

00: -

The invention relates to a method for a non-invasive determination and/or monitoring of the intracranial compliance of a biological material (02), having the steps of: a) carrying out an acoustic spectroscopy of the biological material (02), said biological material (02) being a human or animal cranium; b) comparing the transmitted acoustic signals with the

21: 2021/07942. 22: 2021/10/18. 43: 2024/02/19  
51: B60K; B60S

71: Artisan Vehicle Systems, Inc.

72: HICKEY, Kyle

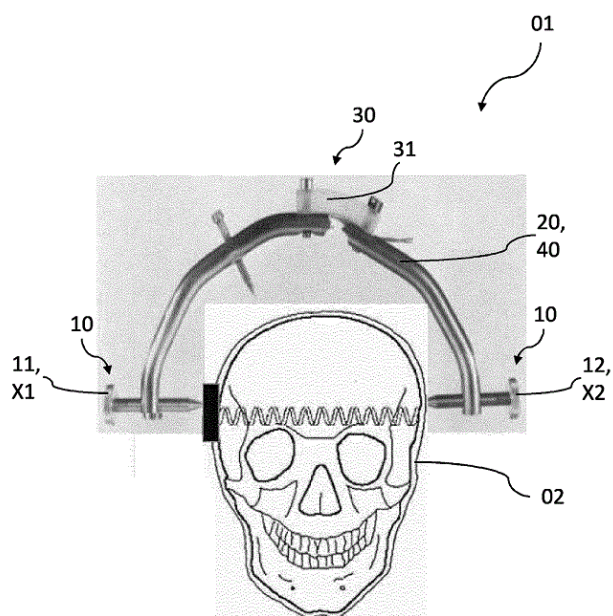
33: US 31: 16/434,396 32: 2019-06-07

#### **54: BATTERY LOAD MECHANISM FOR ELECTRIC LHD MINING MACHINE**

00: -

A mounting and dismounting system for replaceable power sources is disclosed. The mounting and dismounting system is integrated into a vehicle. The vehicle may be an electric vehicle and the replaceable power source may include at least one battery. The mounting and dismounting system includes a lift rack assembly that engages shafts on the replaceable power source to raise and lower the replaceable power source. The mounting and dismounting system also includes a set of retaining members to help keep the shafts in place. The lift rack assembly includes rack members that move in a substantially vertical direction to limit swinging and tilting.

corresponding received acoustic signals, wherein an n-dimensional function which characterizes the biological material (02) and transit time values are ascertained; c) determining the enlargement of the biological material (02), the length and/or volume enlargement of the biological material (02) being measured; and d) ascertaining the intracranial compliance of the biological material (02) on the basis of the comparison carried out in step b) and the measurement carried out in step c). The invention also relates to a device for a non-invasive determination and/or monitoring of the intracranial compliance of a biological material (02).



21: 2021/08634. 22: 2021/11/04. 43: 2024/04/03

51: B22D; B22F; C22C

71: INNERCO SP. Z O.O

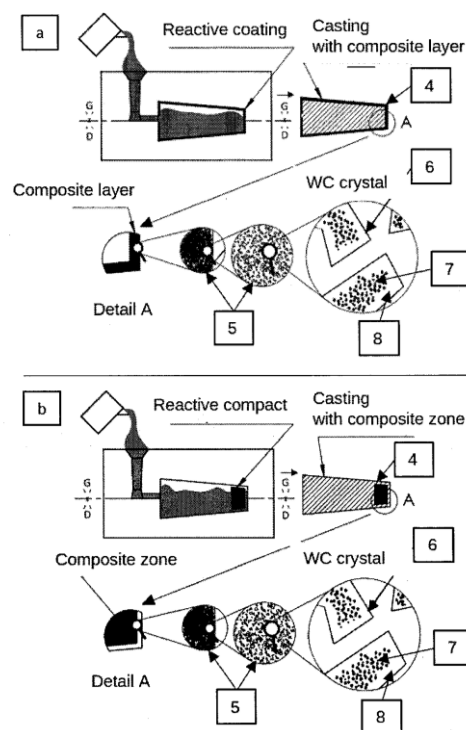
72: OLEJNIK, Ewa

**54: COMPOSITE MATERIAL BASED ON ALLOYS, MANUFACTURED IN SITU, REINFORCED WITH TUNGSTEN CARBIDE AND METHODS OF ITS PRODUCTION**

00: -

The invention is related to a composite material based on *in situ* produced alloys, especially iron based alloys, reinforced with tungsten carbide in the form of crystals and / or particles, that can be characterized by the fact that the microstructure of the composite material within the composite layer and / or the composite zone comprises faceted crystals (6) and / or faceted particles tungsten

carbide that provide uniform macroscopic and microscopic distribution, wherein the crystals (6) and / or particles of tungsten carbide include irregular and / or round and / or oval nano and or / micro-areas (7) filled with alloy based on metal. The invention is also related to compositions of powders used to produce the composite material and methods of its production as well as to cast working element made of such composite materials or using the said method.



21: 2021/08847. 22: 2021/11/09. 43: 2024/02/02

51: B01J; C02F; B09C; B01D

71: SPECIALTY MINERALS (MICHIGAN) INC.

72: DONOVAN, MICHAEL

33: US 31: 62/851,431 32: 2019-05-22

**54: MODIFIED CLAY SORBENTS AND METHODS OF SORBING PFAS USING THE SAME**

00: -

A method of sorbing a PFAS compound from a contaminated environment can include admixing a modified clay sorbent with the environment. The modified clay can include a clay intercalated with a blend of mono-quaternary amine compound and di-quaternary amine compound.

21: 2021/08890. 22: 2021/11/10. 43: 2024/02/20

51: G10L



71: FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V.

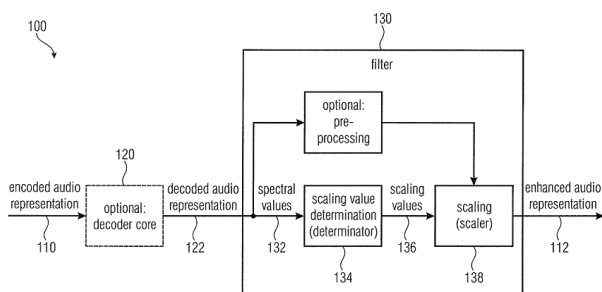
72: FUCHS, Guillaume, KORSE, Srikanth, RAVELLI, Emmanuel

33: EP 31: PCT/EP2019/059355 32: 2019-04-11

**54: AUDIO DECODER, APPARATUS FOR DETERMINING A SET OF VALUES DEFINING CHARACTERISTICS OF A FILTER, METHODS FOR PROVIDING A DECODED AUDIO REPRESENTATION, METHODS FOR DETERMINING A SET OF VALUES DEFINING CHARACTERISTICS OF A FILTER AND COMPUTER PROGRAM**

00: -

An audio decoder for providing a decoded audio representation on the basis of an encoded audio representation comprises a filter for providing an enhanced audio representation of the decoded audio representation. The filter is configured to obtain a plurality of scaling values, which are associated with different frequency bins or frequency ranges, on the basis of spectral values of the decoded audio representation which are associated with different frequency bins or frequency ranges, and the filter is configured to scale spectral values of the decoded audio signal representation, or a pre-processed version thereof, using the scaling values, to obtain the enhanced audio representation. An apparatus for determining a set of values defining characteristics of a filter for providing an enhanced audio representation on the basis of a decoded audio representation (122;322) is also described.



21: 2021/08945. 22: 2021/11/11. 43: 2024/02/02 51: B02C

71: METSO OUTOTEC USA INC.

72: REZNITCHENKO, VADIM, HARBOLD, KEITH

**54: CRUSHING DEVICE**

00: -

Disclosed is a deflection distributor refitting kit for a roller crusher. According to the disclosure the deflection distributor refitting kit comprises a deflection distributing shaft, thrust rods each having first and second ends and mounts for attachment of the deflection distributing shaft at a frame of the roller crusher, wherein a first end of each of said thrust rods is attached to the deflection distributing shaft via a lever, wherein a second end of each of the thrust rods is arranged to be attached to a movable bearing housing of the roller crusher, and wherein the deflection distributor refitting kit further comprises a preload arrangement which induces a bias to parts of the deflection distributor refitting kit. Also disclosed is a method for mounting the deflection distributor refitting kit, as well as a roller crusher comprising a deflection distributor.

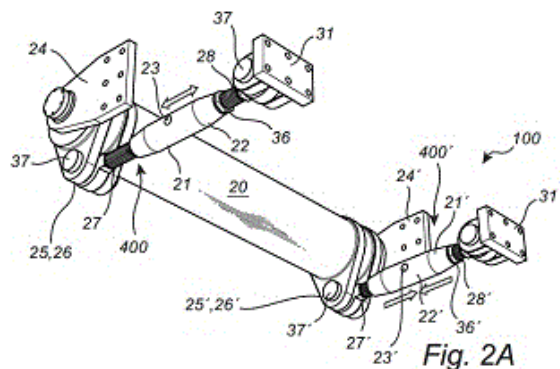


Fig. 2A

21: 2021/08946. 22: 2021/11/11. 43: 2024/02/02 51: B02C

71: METSO OUTOTEC USA INC.

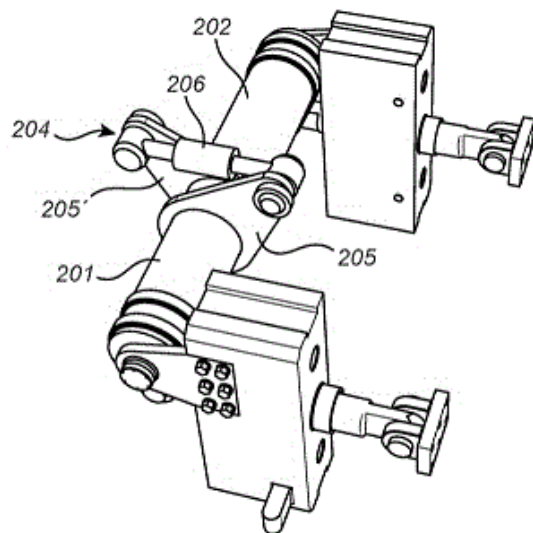
72: REZNITCHENKO, VADIM, HARBOLD, KEITH

**54: CRUSHING DEVICE**

00: -

Disclosed is a deflection distributor refitting kit for a roller crusher. According to the disclosure the deflection distributor refitting kit comprises a deflection distributing shaft, thrust rods each having first and second ends and mounts for attachment of the deflection distributing shaft at a frame of the roller crusher, wherein a first end of each of said thrust rods is attached to the deflection distributing shaft via a lever, wherein a second end of each of the thrust rods is arranged to be attached to a movable bearing housing of the roller crusher, and wherein the deflection distributing shaft comprises first and second shaft parts which are interconnected

by means of a shock absorbing unit. Also disclosed is a method for mounting the deflection distributor refitting kit, as well as a roller crusher comprising a deflection distributor.

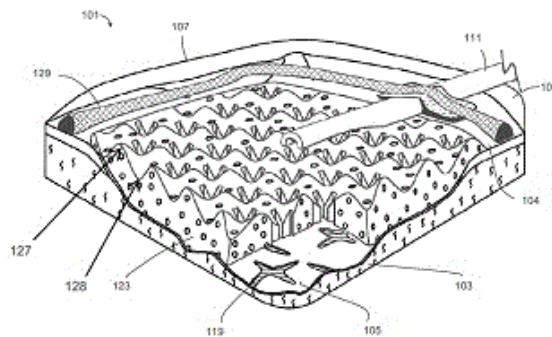


21: 2021/09071. 22: 2021/11/15. 43: 2024/02/02  
51: A61F; A61M  
71: AROA BIOSURGERY LIMITED  
72: ASEFI, DORRIN, JOWSEY, ALISTER TODD, MASON, ISAAC TRISTRAM TANE, WARD, BRIAN RODERICK  
33: US 31: 62/844,690 32: 2019-05-07

#### **54: NEGATIVE PRESSURE WOUND DRESSING**

00: -

The invention relates to a multi-layer wound dressing for applying negative pressure to a wound. The dressing comprises a bioresorbable layer, for placement in contact with the wound; a fluid impermeable occlusive outer layer; a fluid porous porting layer positioned between the outer layer and the bioresorbable layer; and a fluid conduit in fluid communication with the porting layer, for coupling to a source of negative pressure. The porting layer comprises a multiplicity of fluid pathways between the conduit and the bioresorbable layer to allow for fluid transfer through the layers of the dressing to and from the bioresorbable. The bioresorbable layer comprises a plurality of apertures to enable exudate to flow from the wound to the porting layer.



21: 2021/09175. 22: 2021/11/17. 43: 2024/02/20  
51: C07K A61K A61P A61Q A23L

71: EYEBIO KOREA

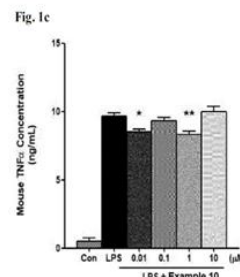
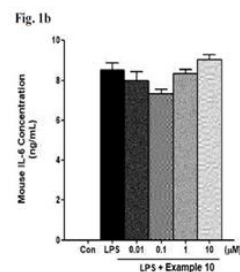
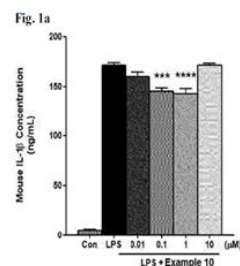
72: KIM, Yoo Seok, KIM, Myoung Hwan, KIM, Young In, LIM, Taek Joo, LIM, Hyeong Joon, KIM, Jee Young, PARK, Eun Young

33: KR 31: 10-2019-0059628 32: 2019-05-21

#### **54: NOVEL PEPTIDE COMPOUND OR PHARMACEUTICALLY ACCEPTABLE SALT THEREOF**

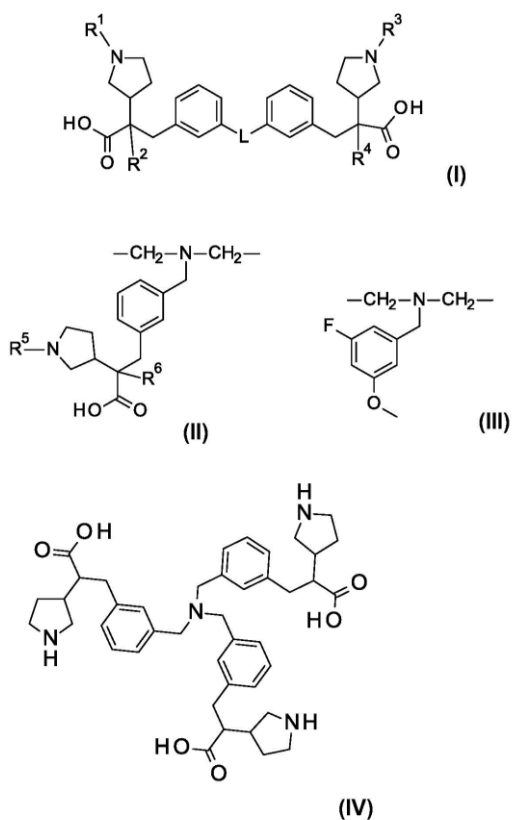
00: -

The present invention relates to a novel peptide compound or a pharmaceutically acceptable salt thereof.



21: 2021/09251. 22: 2021/11/18. 43: 2024/02/19  
 51: A61K; A61P; C07D  
 71: Eli Lilly and Company  
 72: LAFUENTE BLANCO, Celia, DIAZ BUEZO, Nuria, MARTINEZ PEREZ, Jose Antonio, SANZ GIL, Gema Consuelo, PRIEGO SOLER, Julian  
 33: EP(GB) 31: 19382477.8 32: 2019-06-07  
**54: PYRROLIDINE COMPOUNDS**  
 00: -

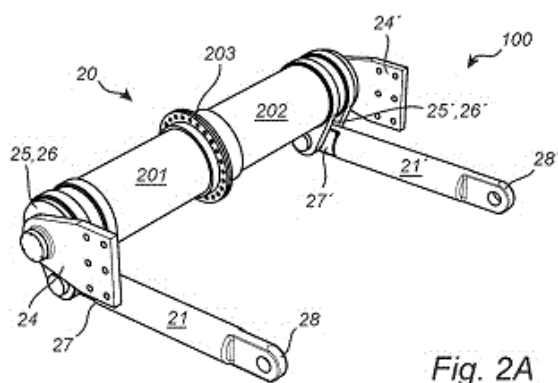
The present invention provides compounds of the Formula (I) wherein L is selected from the group consisting of -CH<sub>2</sub>NHCH<sub>2</sub>-, -CH<sub>2</sub>NH-, -NH-, -S-, -S(O)-, -S(O)<sub>2</sub>-, -O-, -OCH<sub>2</sub>-, -OCH<sub>2</sub>CH<sub>2</sub>O-, -NHSO<sub>2</sub>NH-, (II) and (III), or a pharmaceutically acceptable salt thereof; a compound of the formula: (IV), processes for preparing the compounds and their salts, a pharmaceutical composition, and methods of treating patients in need of such treatment.



21: 2021/09312. 22: 2021/11/19. 43: 2024/02/02  
 51: B02C  
 71: METSO OUTOTEC USA INC.  
 72: REZNITCHENKO, VADIM, HARBOLD, KEITH  
**54: CRUSHING DEVICE**  
 00: -

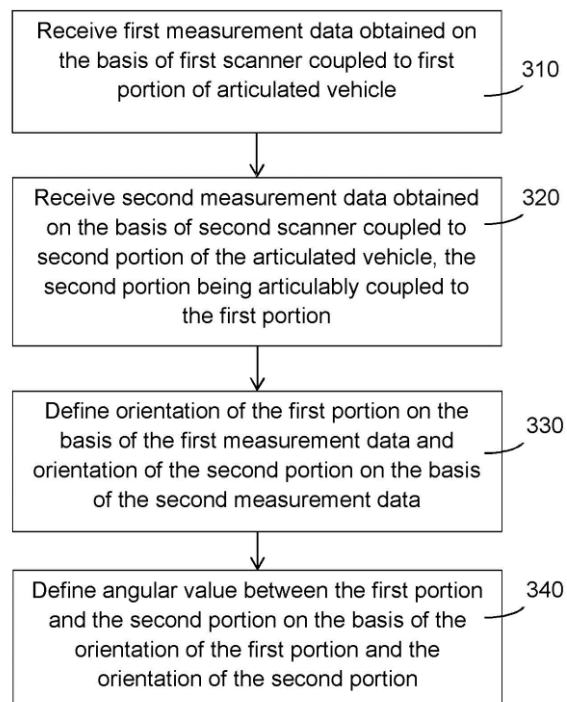
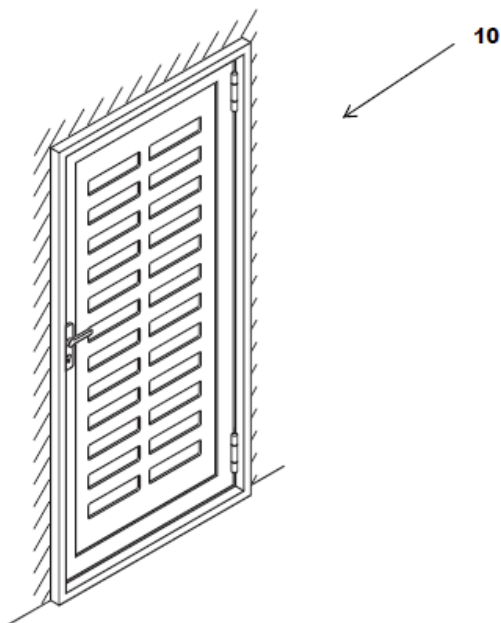
Disclosed is a deflection distributor refitting kit for a roller crusher. According to the disclosure the deflection distributor refitting kit comprises a

deflection distributing shaft, thrust rods each having first and second ends and mounts for attachment of the deflection distributing shaft at a frame of the roller crusher, wherein a first end of each of said thrust rods is attached to the deflection distributing shaft via a lever, wherein a second end of each of the thrust rods is arranged to be attached to a movable bearing housing of the roller crusher, and wherein the deflection distributing shaft comprises at least two interconnectable sub-shafts. Also disclosed is a method for mounting the deflection distributor refitting kit, as well as a roller crusher comprising a deflection distributor.



21: 2021/09336. 22: 2021/11/22. 43: 2024/04/11  
 51: E06B  
 71: WALTON, Richard Graham  
 72: WALTON, Richard Graham  
**54: A DOOR ASSEMBLY**  
 00: -

A door assembly 10 which includes a door 12, a frame 14 which is sized, shaped and configured to engage complementally and be received within a doorway 16, entrance, aperture or other object, a displacement means 18 for displacing the door 12 relative to the frame 14, a transparent body 20 fitted within the frame 14, the transparent body 20 being comprised of a transparent, polymeric material and incorporating a plurality of cut-outs 22 shaped and configured both to allow airflow through the door 12 and provide visual ornamentation, and an attachment means (not shown) for attaching the transparent body 20 to the frame 14.



21: 2021/09502. 22: 2021/11/24. 43: 2024/02/20

51: G05D

71: Sandvik Mining and Construction Oy

72: PUURA, Jussi, VON ESSEN, Tomi

33: EP(FI) 31: 19180435.0 32: 2019-06-17

#### **54: AUTONOMOUS VEHICLE MONITORING**

00: -

According to an example aspect of the present invention, there is provided a method for monitoring an articulated vehicle, comprising: receiving first measurement data obtained on the basis of a first scanner coupled to a first portion of an articulated vehicle, receiving second measurement data obtained on the basis of a second scanner coupled to a second portion of the articulated vehicle, the second portion being articulably coupled to the first portion, defining orientation of the first portion on the basis of the first measurement data and orientation of the second portion on the basis of the second measurement data, and defining an angular value between the first portion and the second portion on the basis of the orientation of the first portion and the orientation of the second portion.

21: 2021/09598. 22: 2021/11/25. 43: 2024/02/02

51: A61P; C07C

71: H. LUNDBECK A/S

72: SAMS, ANETTE GRAVEN, ROTTLÄNDER, MARIO, LARSEN, KRESTIAN, WANG, XIAOFANG, DAS, DEBASIS, HONG, JIAN, CHEN, SHU HUI

33: EP 31: 19191887.9 32: 2019-08-15

33: EP 31: 19189750.3 32: 2019-08-02

33: CN 31: 201910734123.0 32: 2019-08-09

#### **54: ALCOHOL DERIVATIVES AS KV7**

#### **POTASSIUM CHANNEL OPENERS**

00: -

The present invention provides novel compounds which activate the Kv7 potassium channels, Separate aspects of the invention are directed to pharmaceutical compositions comprising said compounds and uses of the compounds to treat disorders responsive to the activation of Kv7 potassium channels.

21: 2021/09828. 22: 2021/12/01. 43: 2024/02/15

51: A61K; A61P; C12N

71: CELULARITY INC.

72: HARIRI, ROBERT J, ZHANG, XIAOKUI, YE, QIAN, HE, SHUYANG, HARIRI, HALEY M, SHAH, NAVJOT, SOMANCHI, SRINIVAS, STOUT, BHAVANI

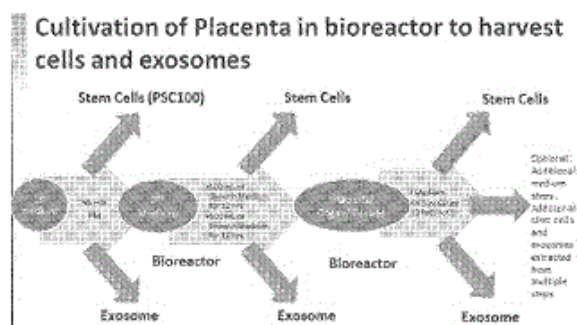


33: US 31: 62/905,117 32: 2019-09-24

33: US 31: 62/863,767 32: 2019-06-19

00: -

The present invention provides method of treating diseases, disorders and conditions in a human subject comprising administering to the subject a population of exosomes or a composition comprising a population of exosomes, wherein said population of exosomes is positive for CD1c, CD20, CD24, CD25, CD29, CD2, CD3, CD8, CD9, CD11c, CD14, CD19, CD31, CD40, CD41b, CD42a, CD44, CD45, CD49e, CD4, CD56, CD62P, CD63, CD69, CD81, CD86, CD105, CD133-1, CD142, CD146, CD209, CD326, HLA-ABC, HLA-DRDPDQ, MCSP, ROR1, SSEA-4, or combinations thereof. Such diseases, disorders and conditions include lung, liver, central nervous system, kidney, cardiovascular, gastrointestinal, spleen, eye, systemic and ageing associated diseases, disorders, and conditions.



51: B65D; B65B

72: BURATTINI, CHRISTIAN

## 54: SEALED SINGLE-DOSE BREAK-OPEN

00: -  
A sealed single-dose break-open package (1) comprising a first sheet (2) of semirigid plastic material; a second sheet (3) of flexible plastic material superimposed on and sealed to the first sheet (2) to define a sealed pocket (4) containing a dose of a product (5); wherein the first sheet (2) of semirigid plastic material comprises at least one substantially straight first incision (6) positioned at a

first edge (9) of the first sheet (2), and at least one shaped incision (7) positioned in a central portion (10) of the first sheet (2), laterally and at a distance from the straight first incision (6).

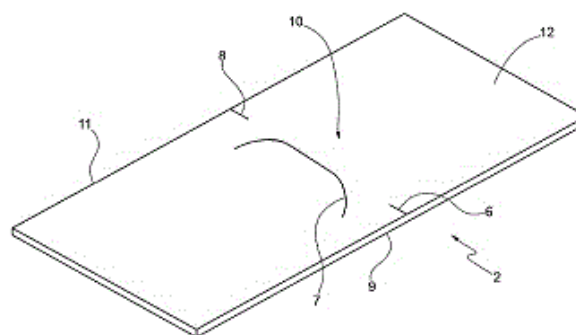


FIG.2

51: C12N: A23L: A61K

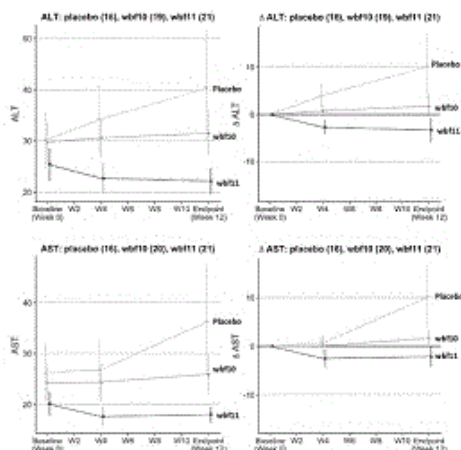
72: KOLTERMAN, ORVILLE, PERRAUDEAU,

CUTCLIFFE, COLLEEN

## 54: METHODS AND COMPOSITIONS

00: -  
Compositions and methods are provided for treating, mitigating, managing, reducing or preventing the onset of symptoms, signs or indicators of liver disorders as well as the disorders themselves. The compositions and methods include microbial compositions that are selected to improve gut function in the subjects to which they are administered, so as to bring about treatment of liver disorders and/or the signs, symptoms and indicators of those disorders.





21: 2021/10208. 22: 2021/12/09. 43: 2024/02/15

51: C12Q; C07K; A61K

71: PRECIGEN, INC.

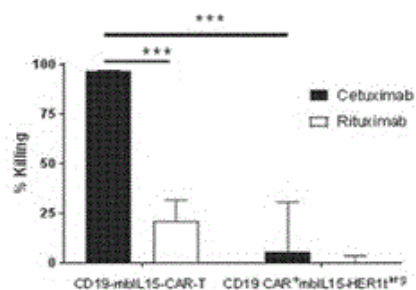
72: SHAH, RUTUL, EMTAGE, PETER, YARLAGADDA, RAMYA

33: US 31: 62/516,639 32: 2017-06-07

#### 54: EXPRESSION OF NOVEL CELL TAGS

00: -

Disclosed herein are polynucleotides encoding cell tags for use in immunotherapeutic applications, and systems comprising polynucleotide cell tags for regulating the activity of a cell. The compositions, methods and systems described herein provide tools for regulating activity of genetically engineered cells in a subject.



21: 2021/10742. 22: 2021/12/21. 43: 2024/02/15

51: A61K; A61Q; C11D

71: UNILEVER GLOBAL IP LIMITED

72: ANANTHASUBRAMANIAN, SIVAKUMAR, GHATLIA, NARESH DHIRAJLAL, HEGISHTE, SWAPNIL RAVIKANT, MATHAPATHI, MRUTHYUNJAYA SWAMY, MAJUMDAR, AMITABHA, PARUCHURI, DIVYA

33: EP 31: 19187809.9 32: 2019-07-23

#### 54: A WATER-IN-OIL EMULSION COMPOSITION FOR ENHANCED DELIVERY OF WATER SOLUBLE SKIN BENEFIT AGENTS

00: -

This invention relates to a water in oil emulsion composition which provides enhanced delivery of water soluble skin benefit agent. The invention more particularly relates to a wash off composition e.g that for washing hair, body, hand or face which generally contain anionic surfactants and yet provide enhanced delivery of such agents. It does this by delivering the actives through a specific water-in-oil emulsion. The water-in-oil emulsion comprises a hydrophobic phase preferably petrolatum with preferred emulsifiers being non-ionic surfactant of specified HLB range.

21: 2021/10780. 22: 2021/12/22. 43: 2024/02/12

51: C07K; C12N; A61K

71: PRECIGEN, INC.

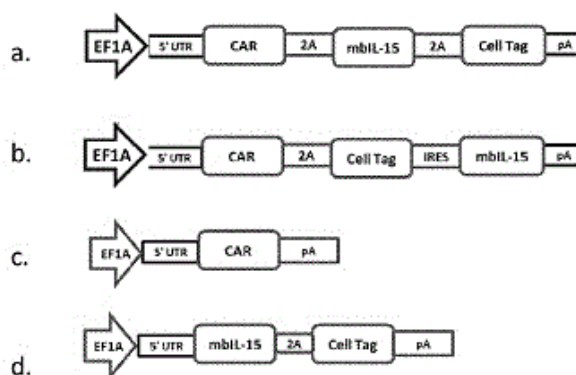
72: SABZEVARI, HELEN, SHAH, RUTUL R

33: US 31: 62/680,297 32: 2018-06-04

#### 54: MUC16 SPECIFIC CHIMERIC ANTIGEN RECEPTORS AND USES THEREOF

00: -

Provided herein are chimeric antigen receptors (CARs) for cancer therapy, and more particularly, CARs containing a scFv from an anti-MUC16 monoclonal antibody. Provided are immune effector cells containing such CARs, and methods of treating proliferative disorders.



21: 2021/10801. 22: 2021/12/22. 43: 2024/02/15

51: A61J

71: BOTANICAL RESOURCE HOLDINGS PROPRIETARY LIMITED

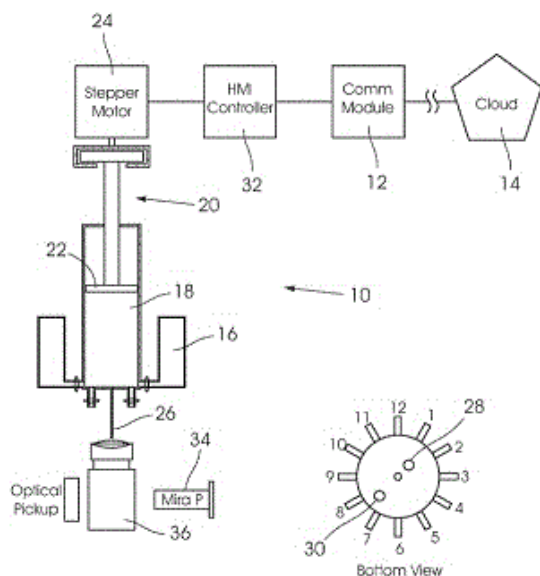
72: KEMP, MARK, DAVIES, RICHARD PAUL

33: ZA 31: 2019/03281 32: 2019-05-24

**54: A MEDICINE COMPOUNDING SYSTEM**

00: -

A medicine compounding system has a plurality of containers for containing medical compounds to be used to make up a medicine. A dosing chamber is connected to each of the plurality of containers and a drawing mechanism is used to draw compounds from the plurality of containers to the dosing chamber. A controller receives a script via a communications module which includes details of a patient and a medicine to be dispensed. The controller determines from the script which medical compounds and what quantities of each compound are to be used to form the medicine. The controller controls the drawing mechanism to draw the determined quantity of the medical compound from the container holding the compound into the dosing chamber, and once all of the required medical compounds have been drawn into the chamber to form the medicine, to eject the medicine formed in the dosing chamber via an outlet.



21: 2021/10854. 22: 2021/12/23. 43: 2024/02/15  
51: C12N; A61K

71: ALNYLAM PHARMACEUTICALS, INC.  
72: BUTLER, JAMES, BETTENCOURT, BRIAN,  
RAJEEV, KALLANTHOTTATHIL G, MAIER,  
MARTIN, CHARISSE, KLAUS

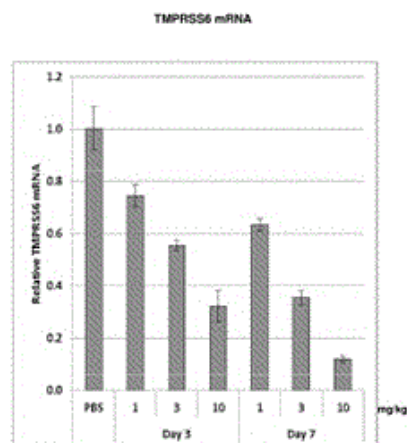
33: US 31: 61/912,988 32: 2013-12-06

33: US 31: 61/826,178 32: 2013-05-22

**54: TMPRSS6 RNA COMPOSITIONS AND METHODS OF USE THEREOF**

00: -

The invention relates to RNAi agents, e.g., double-stranded RNAi agents, targeting the TMPRSS6 gene, and methods of using such RNAi agents to inhibit expression of TMPRSS6 and methods of treating subjects having a TMPRSS6 associated disorder, e.g., an iron overload associated disorder, such as  $\beta$ -thalassemia or hemochromatosis.



21: 2021/10889. 22: 2021/12/23. 43: 2024/02/15  
51: C03B

71: OWENS-BROCKWAY GLASS CONTAINER INC.

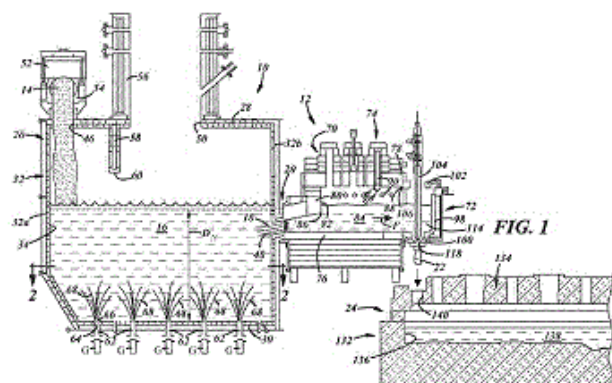
72: SOLEY, DAVID, RASHLEY, SHANE T

33: US 31: 16/590,068 32: 2019-10-01

**54: STILLING VESSEL FOR SUBMERGED COMBUSTION MELTER**

00: -

A method of producing glass includes drawing unrefined foamy molten glass (18) from a glass melt (16) held in a submerged combustion melter (10) and introducing the unrefined foamy molten glass (18) into a stilling chamber (82) of a stilling tank (70). An intermediate pool of molten glass (84) is held within the stilling chamber (82) of the stilling tank (70) and is heated therein by one or more non-submerged burners (90). Molten glass flows from the intermediate pool of molten glass (84) to a transfer pool of molten glass (114) held in a spout chamber (112) of a feeding spout (72) that is appended to the stilling tank (70). A molten glass feed (22) can be drawn from the transfer pool of molten glass (114) and delivered from the feeding spout (72) at a controlled rate.



21: 2021/10903. 22: 2021/12/23. 43: 2024/02/12  
51: C03B; C03C

71: OWENS-BROCKWAY GLASS CONTAINER INC.

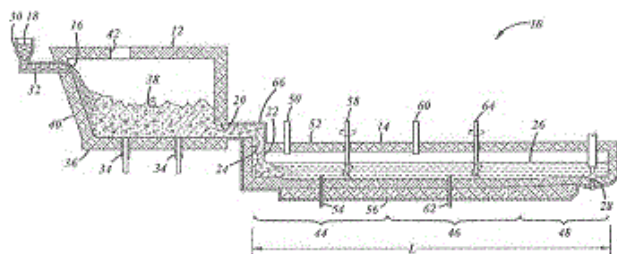
72: WANG, ZHONGMING, VEMPATI, UDAYA, TOWNSEND, CASEY, IDINGS, EARNEST R, BHADURI, SUTAPA, SCHOENROCK, NICHOLAS A, LIN, YA-CHENG

33: US 31: 16/590,077 32: 2019-10-01

#### **54: GLASS MANUFACTURING PROCESS**

00: -

In a process for manufacturing glass, a mixture of solid glass-forming materials (18) may be melted by application of heat from one or more submerged combustion burners (34) to produce a volume of unrefined molten glass comprising, by volume, 20% to 40% gas bubbles. A refining agent may be introduced into the unrefined molten glass to promote gas bubble removal from the molten glass. The unrefined molten glass including the refining agent may be heated at a temperature in the range of 1200°C to 1500°C to produce a volume of refined molten glass. The refined molten glass may comprise, by volume, fewer gas bubbles than the unrefined molten glass. A colorant material may be introduced into the refined molten glass to produce a volume of molten glass having a final desired color.



21: 2021/10904. 22: 2021/12/23. 43: 2024/02/12  
51: C03B; C03C

71: OWENS-BROCKWAY GLASS CONTAINER INC.

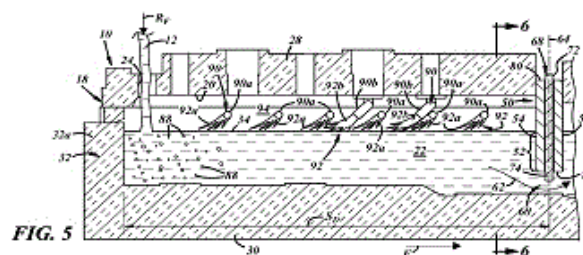
72: WEIL, SCOTT, WANG, ZHONGMING, SMITH, ROGER P

33: US 31: 16/590,062 32: 2019-10-01

#### **54: SELECTIVE CHEMICAL FINING OF SMALL BUBBLES IN GLASS**

00: -

A method of fining glass is disclosed that includes flowing a molten glass bath (22) through a fining chamber (20, 420). The molten glass bath (22) has an undercurrent (62) that flows beneath a skimmer (50, 250, 350, 481, 589) that is partially submerged in the molten glass bath (22). One or more fining agents are introduced into the undercurrent (62) of the molten glass bath (22) directly beneath the skimmer (50, 250, 350, 481, 589) from a dissolvable fining material component (68, 268, 368, 468). In this way, the fining agent(s) may selectively target the gas bubbles (88) drawn under the skimmer (50, 250, 350, 481, 589) within the undercurrent (62) of the molten glass (22) for removal. The method may be employed to fine molten glass produced in a submerged combustion melter (14). A fining vessel (10) for fining molten glass is also disclosed.



21: 2021/10906. 22: 2021/12/23. 43: 2024/02/12  
51: C03B; C03C

71: OWENS-BROCKWAY GLASS CONTAINER INC.

72: WANG, ZHONGMING, IDINGS, ERNEST, SCHOENROCK, NICHOLAS A

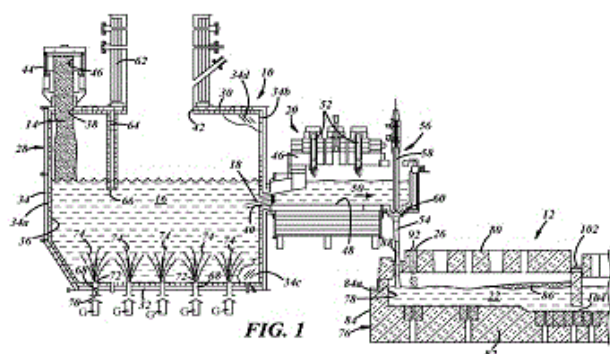
33: US 31: 16/590,076 32: 2019-10-01

#### **54: FINING GLASS FROM A SUBMERGED COMBUSTION MELTER**

00: -

A method of fining low-density submerged combustion glass is disclosed. The method involves introducing unfined molten glass (18) produced in a submerged combustion melter (10) into a fining

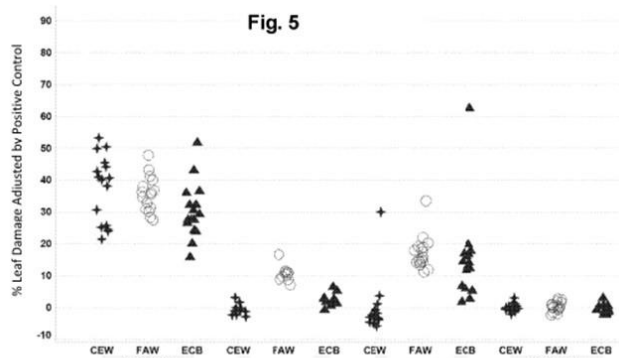
chamber (78) of a downstream fining tank (12). Additionally, additive particles (26) are also introduced into the fining chamber (78) to release one or more fining agents (142) into the molten glass bath (22) contained in the fining chamber (78) to accelerate the removal of bubbles from the molten glass bath (22). The fining of the molten glass bath (22) as assisted by the one or more fining agents (142) allows for fined glass (24) to be discharged from the fining tank (12) that has fewer bubbles and a greater density than that of the unfined molten glass (18) introduced into the fining tank: (12). Additive particles (26) that include a physical mixture of a glass reactant material (140) and the fining agent(s) (142) are also disclosed.



21: 2021/10909. 22: 2021/12/23. 43: 2024/04/12  
 51: C07K; C12N; A01N  
 71: PIONEER HI-BRED INTERNATIONAL, INC, HEXIMA LIMITED  
 72: LIU Lu, LUM Amy, ONG Azalia S, SCHEPERS Eric, UDRANSZKY Ingrid, ZHONG Xiaohong  
 33: US 31: 62/642 642 32: 2018-03-14  
 33: IB 31: (PCT/US2019/021775) 32: 2019-03-12  
**54: INSECTICIDAL PROTEINS FROM PLANS AND METHODS FOR THEIR USE**

00: -  
 Compositions and methods for controlling pests are provided. The methods involve transforming organisms with a nucleic acid sequence encoding an insecticidal protein. In particular, the nucleic acid sequences are useful for preparing plants and microorganisms that possess insecticidal activity. Thus, transformed bacteria, plants, plant cells, plant tissues and seeds are provided. Compositions are insecticidal nucleic acids and proteins of bacterial species. The sequences find use in the construction of expression vectors for subsequent transformation

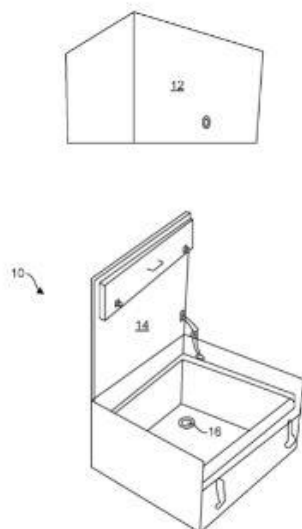
into organisms of interest including plants, as probes for the isolation of other homologous (or partially homologous) genes. The pesticidal proteins find use in controlling, inhibiting growth or killing Lepidopteran, Coleopteran, Dipteran, fungal, Hemipteran and nematode pest populations and for producing compositions with insecticidal activity.



21: 2022/01246. 22: 2022/01/26. 43: 2024/03/19  
 51: A47K; B60P; B60R  
 71: STORYTELLER OVERLAND, LLC  
 72: HUNTER, Jeffrey, FREYERMUTH, Dan, DONALDSON, Adam, ISBELL, Mark, LANG, Brent, SLATER, Dave  
 33: US 31: 62/816,571 32: 2019-03-11  
 33: US 31: 16/814,270 32: 2020-03-10  
**54: FOLDABLE LOUNGE**  
 00: -

A vehicle retrofit system comprising a seat/bed conversion assembly which is configured to be contained and deployed within an interior of a vehicle.





21: 2022/01621. 22: 2022/02/07. 43: 2024/04/02  
51: A01P

71: ROODT, JACQUES JOHAN

72: ROODT, JACQUES JOHAN

33: ZA 31: 2020/07796 32: 2020-12-15

#### **54: A METHOD OF REPELLING A RODENT FROM A SOWED SEED CROP**

00: -

The invention provides a method of protecting the kernels of a seed crop, after being sown, from rodent predation which includes the steps, prior to sowing, of coating the kernels with an adhesive to provide coated kernels, and mixing a powder of a milled or ground dehydrated peppermint with the coated kernels so that the powder adheres to the kernels.

21: 2022/02293. 22: 2022/02/23. 43: 2024/02/29  
51: A61G

71: TSHWANE UNIVERSITY OF TECHNOLOGY

72: DJOUANI, KARIM DAFR ALLAH, STEYN, NICO, POTGIETER, JOHANNES JURGENS

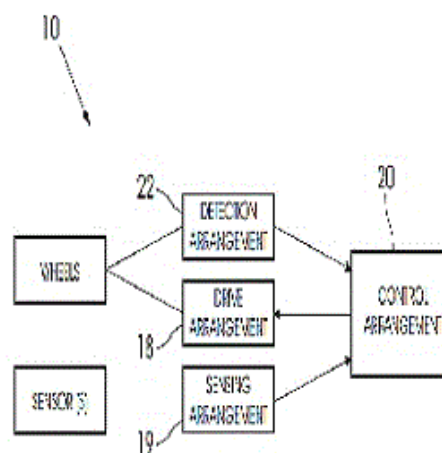
33: ZA 31: 2021/02046 32: 2021-03-26

#### **54: A WHEELCHAIR**

00: -

A wheelchair which includes a seat and at least one rotatable wheel which supports the seat which facilitates the movement of the wheelchair along the ground. The wheelchair also includes a detection arrangement for detecting when external torque ("external, user-applied torque") is applied to the wheel by a user. The wheelchair further includes a drive arrangement for applying torque ("internal torque") to the wheel in order to facilitate the

movement of the wheelchair along the ground surface. The wheelchair also includes a control arrangement which is configured such that, if the detection arrangement detects external, user-applied torque being applied to the wheel by a user in order to drive/move the wheelchair in a first direction, it utilises the drive arrangement in order to apply internal torque to the at least one wheel which is complementary to the external user-applied torque, in order to support/supplement the movement of the wheelchair in the first direction.



21: 2022/03873. 22: 2022/04/05. 43: 2024/04/08  
51: B32B; C04B; E04F

71: I4F LICENSING NV

72: BOUCKÉ, Eddy Alberic

33: NL 31: 2024192 32: 2019-11-08

#### **54: DECORATIVE PANEL, AND DECORATIVE FLOOR COVERING CONSISTING OF SAID PANELS**

00: -

Decorative panel, in particular a floor panel, ceiling panel or wall panel, comprising a core layer having an upper side and a lower side, a decorative top layer connected to said upper side of the core layer, a first panel side edge comprising a first coupling profile, and a second panel side edge comprising a second coupling profile designed to interconnect with a first coupling profile of a second, identical panel, both in horizontal direction and in vertical direction, wherein the core layer comprises a layer of foam concrete which is constituted by a matrix of concrete material in which air pockets in the form of cells are present.



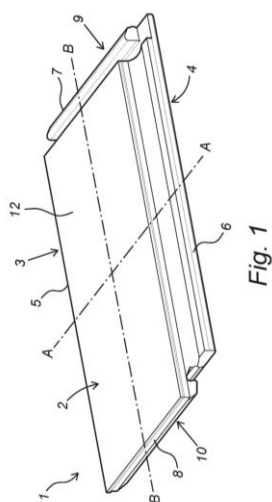


Fig. 1

21: 2022/04100. 22: 2022/04/11. 43: 2024/02/21

51: A61K; C07D

71: Orion Corporation

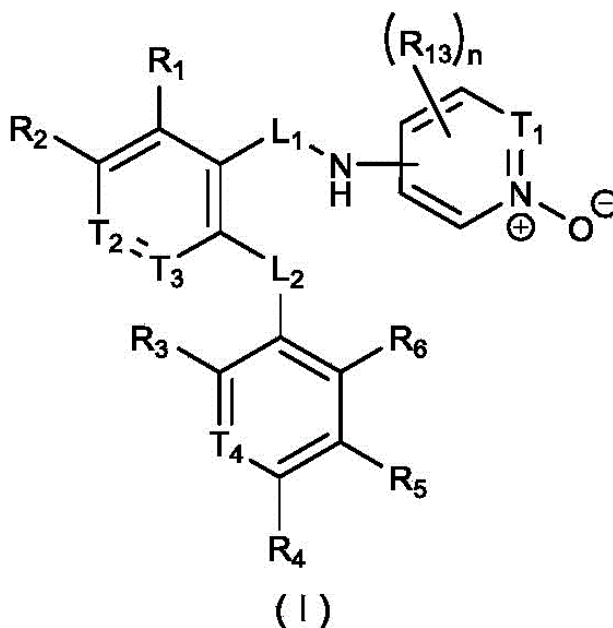
72: ZHANG, Qiong, WANG, Zhongli, DAI, Ming, CHENG, Fengkai, LUO, Jiu, YE, Yan, PENG, Jianbiao, GUO, Haibing

33: CN 31: 201910863718.6 32: 2019-09-12

**54: PYRIDINE OXYNITRIDE, PREPARATION METHOD THEREFOR AND USE THEREOF**

00: -

The present invention belongs to the field of medicinal chemistry. Disclosed are a pyridine oxynitride, a preparation method therefor and the use thereof. Specifically, the present invention relates to a series of sodium ion channel blockers with a new structure, a preparation method therefor and the use thereof. The structure thereof is as shown in general formula (I) below. The compounds or a stereoisomer, a racemate, a geometric isomer, a tautomer, a prodrug, a hydrate, a solvate, or a pharmaceutically acceptable salt thereof and a pharmaceutical composition can be used for treating or/and preventing related diseases mediated by a sodium ion channel (NaV).



21: 2022/04212. 22: 2022/04/13. 43: 2024/01/29

51: C07C

71: Thirumalai Chemicals Limited

72: RANGASWAMY, Parthasarathy

33: IN 31: 201921040419 32: 2019-10-04

**54: PRODUCTION OF MALIC ACID USING TUBULAR AND STIRRED TANK REACTORS**

00: -

The present disclosure discloses a process for production of malic acid. The process comprises obtaining a feed comprising one or more of crude maleic 5 anhydride, pure maleic anhydride, crude maleic acid, crude fumaric acid, pure maleic acid, pure fumaric acid, vent gas scrubber solutions from production of maleic anhydride, and vent gas scrubber solutions from production of phthalic anhydride; passing the feed in a tubular reactor assembly to obtain a first product stream comprising unreacted feed and malic acid, wherein the feed is made to 10 undergo hydration reaction in the tubular reactor assembly for a first predetermined time period; and causing further hydration of the first product stream in a stirred tank reactor assembly for a second predetermined time period to obtain a final product stream comprising malic acid.

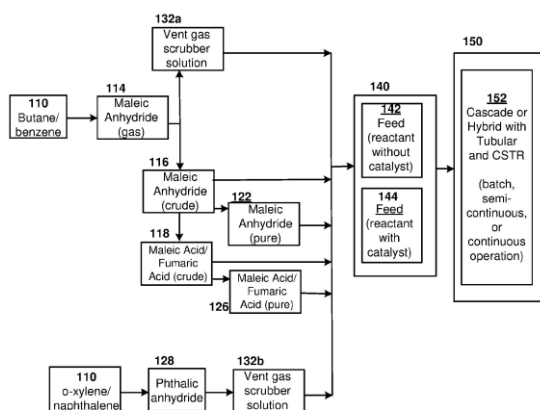
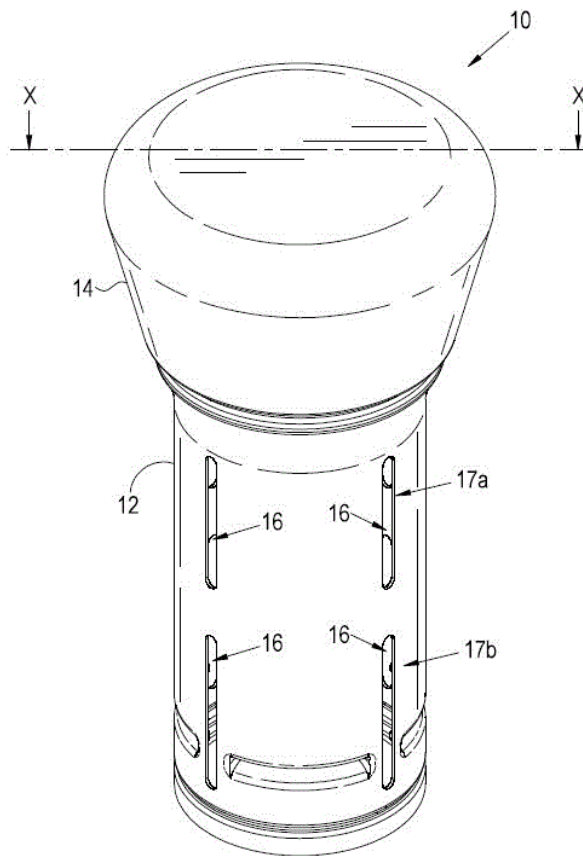


Fig. 1



21: 2022/05078. 22: 2022/05/09. 43: 2024/01/31  
51: B65D; C02F

71: CONTROL CHEMICALS (PTY) LTD

72: BUCHAN, Peter James

33: ZA 31: 2021/02172 32: 2021-03-31

#### 54: WATER TREATMENT

00: -

A base member for a water treatment chemical dispensing container comprises a centrally located raised portion having a top and sides that depend from the top. It further comprises a base portion surrounding the raised portion and relative to which the raised portion is raised such that the sides of the raised portion extend at least between the base portion and the top of the raised portion. A peripheral wall bordering and thus extending around the base portion, with a channel thus being defined around the raised portion between sides of the raised portion and the peripheral wall, is also provided. The top of the raised portion comprises a hollow, operatively upwardly open receptacle. Furthermore, one or more apertures are provided in the sides of the raised portion, adjacent to the top.

21: 2022/05538. 22: 2022/05/19. 43: 2024/04/04  
51: C07D

71: DUFF, Joseph, PAGANESSI, Joseph

72: DUFF, Joseph, PAGANESSI, Joseph

33: US 31: 16/746,133 32: 2020-01-17

33: US 31: 16/892,431 32: 2020-06-04

#### 54: RECOVERY OF ETHYLENE OXIDE FROM STERILIZATION PROCESS

00: -

The invention relates to a process for the recovery and recycling of ethylene oxide (EO) after use in a sterilization process. The process involves the steps of introducing a mixed gas stream containing EO, nitrogen, oxygen, CO<sub>2</sub>, water, and a few other trace elements. The system includes integrated EO concentration sensors to determine the concentration of the EO in the gas stream. The system includes a series of compressors to pressurize the gas stream, and chillers or condensers to cool the gas stream to condense the EO out of the gas stream. The system includes temperature and pressure sensors to determine the conditions in the gas stream, and a control system

that evaluates the temperature and pressure data and controls the compressors and chillers to achieve the properties to maximize the condensation of EO out of the gas stream.

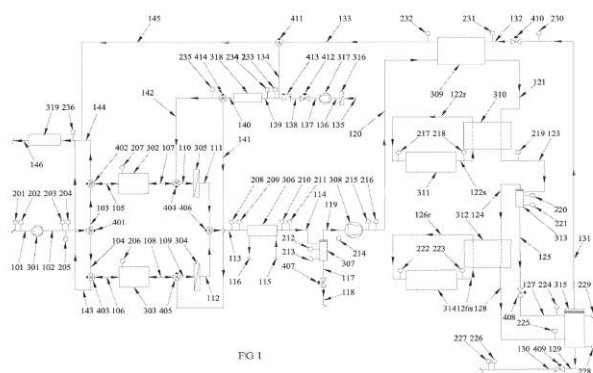


FIG 1

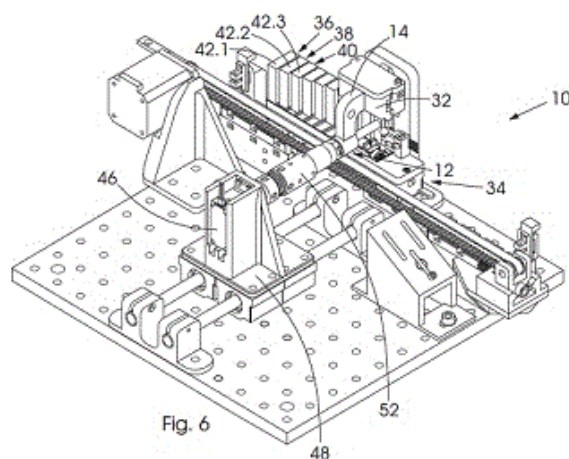


Fig. 6

21: 2022/05901. 22: 2022/05/27. 43: 2024/02/02  
51: B65G

71: UNIQUE VENTILATION AND SUPPORT  
SYSTEMS (PROPRIETARY) LIMITED

72: VAN DER MERWE, JAKES

33: ZA 31: 2021/03698 32: 2021-05-31

**54: CONVEYOR SEAL ASSEMBLY**

00: -

A seal assembly 10 for a conveyor 12, typically used in the course of preventing a spread of noxious gases or fumes through underground mining operations. The seal assembly 10 comprises a main body 18 having an internal passage 28 defined between a top or roof portion 20, bottom or floor portion 22 and opposing sidewalls (24, 26), through which the conveyor 12 is arranged to run, in use. A seal arrangement 42 extends from proximate the top or roof portion 20 towards the bottom or floor portion 22. The seal arrangement 42 is configured, in use, to contact either a top surface of a belt 14 of the conveyor or material carried on the belt 14, and such that noxious gases are inhibited, at least partially, from advancing through the internal passage 28, in use.

21: 2022/05641. 22: 2022/05/23. 43: 2024/02/02

51: G01B; G01M

71: NATIONAL METROLOGY INSTITUTE OF  
SOUTH AFRICA

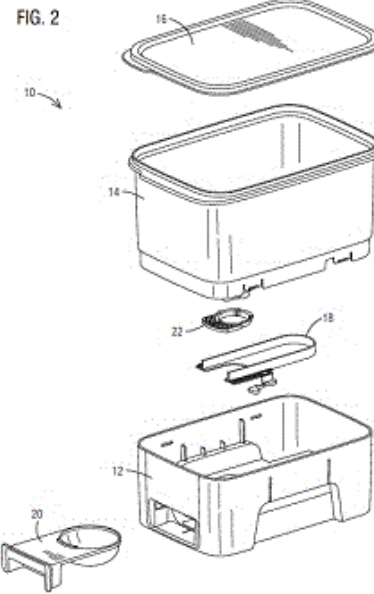
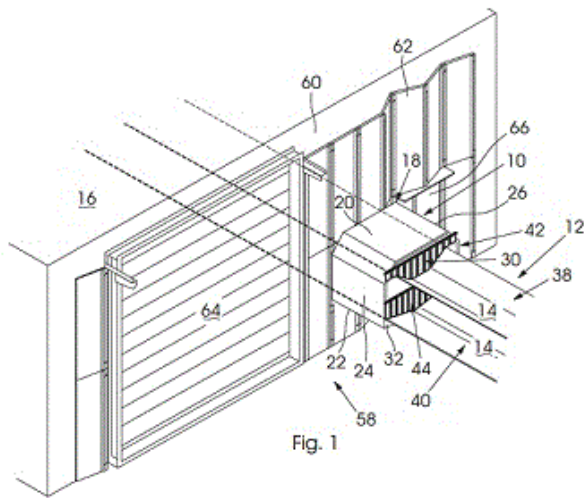
72: KRUGER, OELOF ABRAHAM, GREEFF,  
GABRIEL PIETER

33: ZA 31: 2021/01313 32: 2021-02-26

**54: MEASURING INSTRUMENT CALIBRATION  
SYSTEM AND METHOD**

00: -

A system 10 and a method used for automated calibrating of measuring instruments, such as (without limitation), external micrometers 12, internal micrometers, internal three-point micrometers, stick micrometers, Vernier callipers, micrometer heads and the like. The system 10 comprises a mount 32 for supporting the measuring device 12, such that in use a measurement axis 30 of the measuring device 12 is arranged in a predetermined location. The system 10 further comprises a positioning arrangement 34 associated with at least a first distinct position 36, in use, provided with a first measuring standard 42.1. The positioning arrangement 34 is configured to be displaced relative to the mount 32, to bring the first measuring standard 42.1 into alignment with the measurement axis 30, to facilitate a measurement to be taken by the measuring device 12.



21: 2022/06028. 22: 2022/05/31. 43: 2024/02/02  
51: B65D

71: DART INDUSTRIES INC.

72: VERCRUYSEN, ALEC

33: US 31: 17/381,765 32: 2021-07-21

#### **54: PORTION DISPENSING CONTAINER**

00: -

A portion dispensing container including a base supporting a hopper to store the food, with a cover sealing the hopper. A cup may be inserted into and removed from the base, and interacts with a slider to dispense a predetermined quantity of food into the cup upon each insertion. The hopper may include a scraper portion to assist in closing off the flow of food from the hopper during dispensing.

21: 2022/06548. 22: 2022/06/07. 43: 2024/02/14

51: B60R; H04W

71: DISCOVERY LIMITED

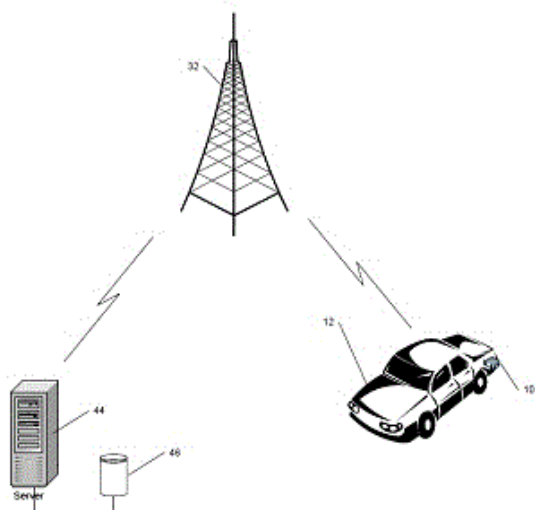
72: OSSIN, ILAN

33: ZA 31: 2021/03534 32: 2021-05-25

#### **54: A SMARTPHONE EARLY WARNING SYSTEM TO DETECT THEFT OF A MOTOR VEHICLE**

00: -

An early warning system to detect theft of a motor vehicle includes a tracking device attached to a motor vehicle. An accelerometer detects if the motor vehicle is moving and in response the identity of the tracking device is transmitted using Bluetooth. If no reply is received within a period of time, then a mobile phone not present alert message is transmitted via a LPWAN. A server receives the phone not present alert message and accesses a memory to retrieve an identification of a mobile communication device associated with the tracking device. A corresponding phone not present message is transmitted to the retrieved mobile communications device to request a user input. A reply from the associated mobile communication device is received instructing if the tracking device should be placed in a distress mode or not and is transmitted back to the tracking device to activate a distress mode or not.



21: 2022/06554. 22: 2022/06/14. 43: 2024/01/31

51: A61K; A61Q

71: AMKA PRODUCTS (PTY) LTD

72: MOSANGI, Damodar, KALLA, Hussein, COOMBER, Karen, KALLA, Haroon, DESAI, Anil, KALLA, Nazir

33: ZA 31: 2021/04126 32: 2021-06-17

#### **54: HAIR GROWTH FORMULATION**

00: -

A follicle stimulating hair growth composition is provided. The composition comprises niacinamide; Pichia minuta yeast extract; Elephanthorrhiza elephantina root extract; Pisum Sativum (Pea) sprout extract; methylsulfonylmethane; caffeine; and Nigella Sativa seed oil.

21: 2022/06574. 22: 2022/06/14. 43: 2024/02/14

51: F01N

71: PUREM GMBH

72: MÜLLER, THOMAS, KRATZ, PHILIPP, RÖHR, BENJAMIN, UHLEMANN, THOMAS, METTENLEITER, NICOLAS, BERKEMER, FRANK

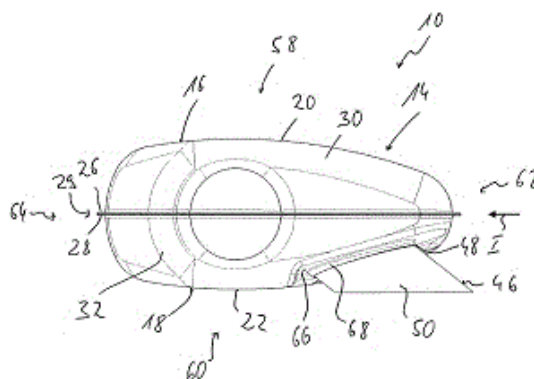
33: DE 31: 10 2021 115 392.1 32: 2021-06-15

#### **54: SILENCER FOR AN EXHAUST SYSTEM OF AN INTERNAL COMBUSTION ENGINE**

00: -

A silencer for an exhaust gas system of an internal combustion engine comprises a silencer housing (14) which surrounds a silencer interior and which has at least two housing portions (16, 18) which are adjacent to each other in an abutment region (29) and which are connected to each other and at least one outlet pipe (46) which extends through the silencer housing (14) in a region of a housing

opening (48) which is formed in the silencer housing (14), wherein the at least one housing opening (48) through which the outlet pipe (46) extends is completely formed in one of the housing portions (16, 18).



21: 2022/07579. 22: 2022/07/08. 43: 2024/01/31

51: E21D

71: FICK, Willem Liebrecht

72: FICK, Willem Liebrecht

33: ZA 31: 2021/02312 32: 2021-04-08

#### **54: LOAD AND OVERLOAD DETECTION MODULES**

00: -

According to a first aspect of the invention there is provided a load detection module comprising a support plate that defines a central bore for accommodating a tensile element; a spring retainer located adjacent the support plate, substantially in the middle of the support plate, the spring retainer also defining a central bore for accommodating the tensile element, the bores of the support plate and the spring retainer being substantially in line with each other; and a resilient spring element extending between the support plate and the spring retainer, the spring element being arranged to space the spring retainer a predetermined distance apart from the support plate, thereby monitoring a compressive force applied to the spring retainer via the tensile element, to ensure that the compressive force does not at any point drop below a pre-determined level.



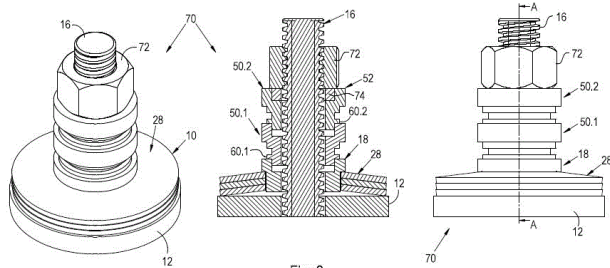


Fig. 3

21: 2022/08326. 22: 2022/07/26. 43: 2024/03/07

51: B23B; C03C; C23C

71: SAINT-GOBAIN GLASS FRANCE

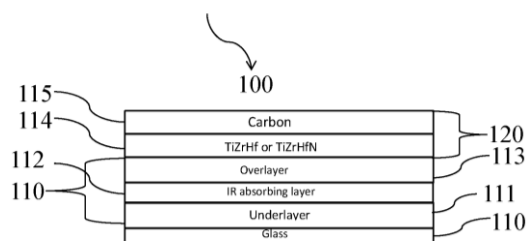
72: MISRA, Soumyadeep, DHANDHARIA, Priyesh, COHIN, Yann

33: IN 31: 202041004908 32: 2020-02-04

**54: COATED ARTICLE COMPRISING PROTECTIVE OVERCOAT LAYERS MADE FROM TITANIUM ZIRCONIUM HAFNIUM NITRIDE AND CARBON**

00: -

A coated solar control article including a stack of layers acting on solar radiation provided on the surface of the glass substrate comprising at least one functional layer and one or more protective overcoat layers deposited over at least a part of the functional layer is disclosed. The protective overcoat layers comprise TiZrHf or TiZrHfN with or without carbon and contribute to scratch resistivity of the coated article especially before heat treatment for up to 5N in Erichsen Scratch testing. The functional layers are free of silver and silver containing metal alloys. The coated solar control article exhibits enhanced durability in terms of scratch resistivity while retaining the original optical characteristics of the coated solar control article.



21: 2022/08593. 22: 2022/08/01. 43: 2024/02/20

51: C06C; C06B; F42C

71: EURENCO

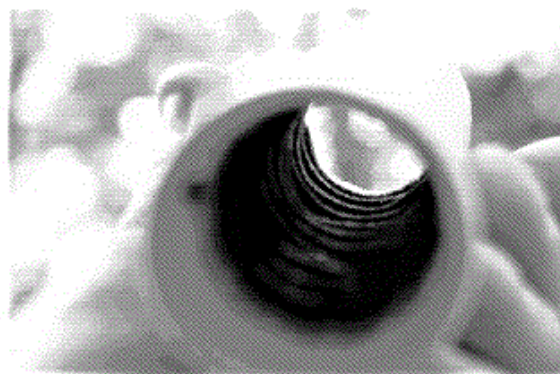
72: CUVELIER, SÉBASTIEN, FONTAINE, ARNAUD, LEGLISE, ROMAIN, LECUME, SERGE

33: FR 31: FR2000428 32: 2020-01-17

**54: IGNITER TUBE FOR A PROPELLANT CHARGE**

00: -

The invention relates to an igniter tube consisting of a fuel tube, on the inner face of which an ignition charge is laid along the length of said fuel tube. The invention also relates to a method for producing the igniter tube.



21: 2022/08692. 22: 2022/08/03. 43: 2024/02/02

51: A01M; B65G; E06B; E03F

71: RENTOKIL INITIAL 1927 PLC

72: BROWN, MARK

33: GB 31: 2001231.6 32: 2020-01-29

**54: SEALS FOR DOCK LEVELLING SYSTEMS, AND METHODS OF SEALING GAPS IN DOCK LEVELLING SYSTEMS**

00: -

A seal for a dock levelling system comprising a movable hinged ramp arranged within a recess. The seal is for sealing a horizontal gap between the hinged end of the movable ramp and a wall of the recess, and comprises a rod and a tube of flexible material surrounding the rod.

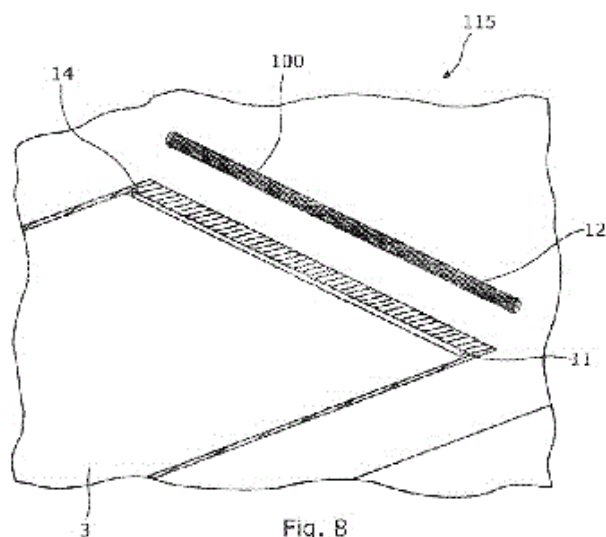


Fig. 8

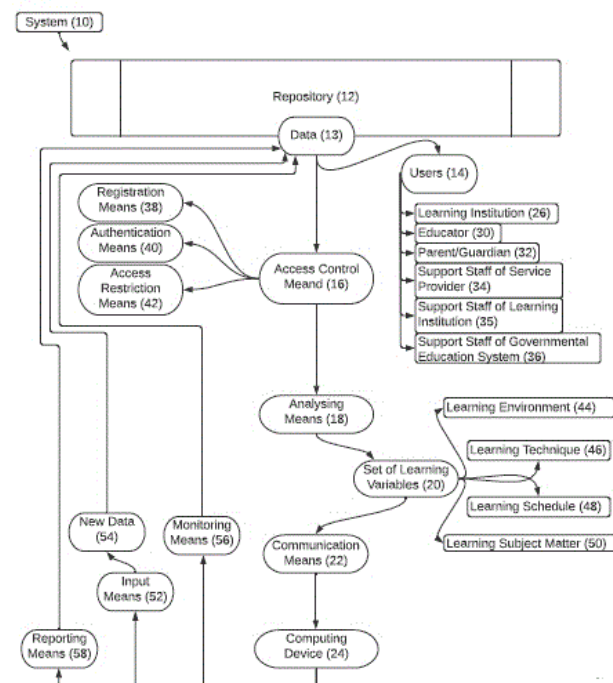
21: 2022/08736. 22: 2022/08/04. 43: 2024/02/20  
51: G09B  
71: GAMMA EDUCATION TECHNOLOGIES (PTY) LTD

72: SURTY, Muhammed, MOOSA, Muhammad, Yaseen

33: ZA 31: 2021/03049 32: 2021-05-06

**54: A SYSYTEM FOR AIDING EDUCATION**  
00: -

The system for aiding education includes a repository (12) for storing data (13) relating to users (14) of an education system, access control means (16) for controlling user access to the data stored on the repository (12), analysing means (18) for analysing the data so as to allow the determination of a set of learning variables (20) most suitable for a particular learner in order to optimise a learning efficiency of the learner, and a communication means (22) for communicating the set of learning variables (20) to the learner via a computing device (24).



21: 2022/09006. 22: 2022/08/11. 43: 2024/02/02  
51: G01M; G01N

71: SHUMKA, THOMAS, SHUMKA, JASON

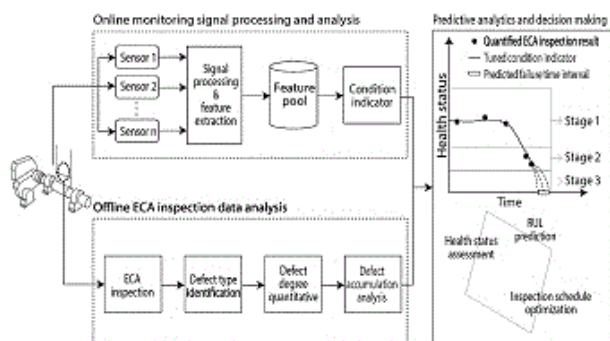
72: SHUMKA, THOMAS, SHUMKA, JASON

33: CA 31: 3068179 32: 2020-01-13

**54: PREDICTIVE MODELING OF WEAR AND HEALTH OF A DRIVEN GEAR IN AN OPEN GEAR SET**

00: -

A system for predictive modeling of wear or damage to a driven gear of an open gear set is provided. A method of developing a predictive model of wear or damage to a driven gear of an open gear set is also provided. The system and method allow for autonomous, non-interfering dynamic collection of data that are used to assist in developing maintenance schedules for large open gear sets. More specifically, it is directed to utilizing data from monitored pinion gears of girth gear sets under full load operating conditions to predict health of a girth gear in the girth gear set.



21: 2022/09294. 22: 2022/08/18. 43: 2024/02/02  
 51: A61K; A61P; C07K; C12N  
 71: NIPPON SHINYAKU CO., LTD., NATIONAL  
 CENTER OF NEUROLOGY AND PSYCHIATRY  
 72: HONDA, YU, MUCHIMA, KANAME, FUKUI,  
 TAKAHIRO, HASEGAWA, SAKI, TAKEDA,  
 SHIN'ICHI, AOKI, YOSHITSUGU  
 33: JP 31: 2020-033483 32: 2020-02-28  
**54: ANTISENSE NUCLEIC ACID INDUCING  
 SKIPPING OF EXON 51**

00: -

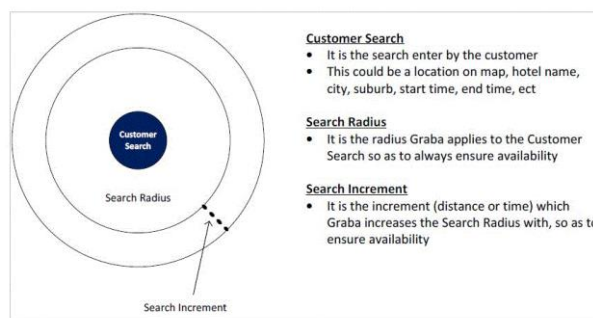
Provided is a drug that allows efficient skipping of the 51st exon in human dystrophin gene. Also provided is an antisense oligomer that has an activity of inducing skipping of the 51st exon in human dystrophin gene.

21: 2022/09920. 22: 2022/09/06. 43: 2024/01/31  
 51: G06F  
 71: GRABA GLOBAL (PTY) LTD  
 72: Charalambous, Dorin  
 33: ZA 31: 2021/04056 32: 2021-06-14  
**54: TRAVEL BOOKING AND MANAGING  
 METHOD AND SYSTEM**

00: -

According to a first aspect of the invention there is provided a computer-implemented travel booking and managing method comprising receiving availability criteria from a user; determining availability of travel services, including flights, accommodation, transport and attractions; and expanding and/or broadening the user's availability criteria in order provide the user with options for the desired travel services. In an embodiment, the step of expanding and/or broadening the user's availability criteria includes the step of incrementally expanding the search for availability based on the initial availability criteria from the user. In an embodiment, after searching the expanded area

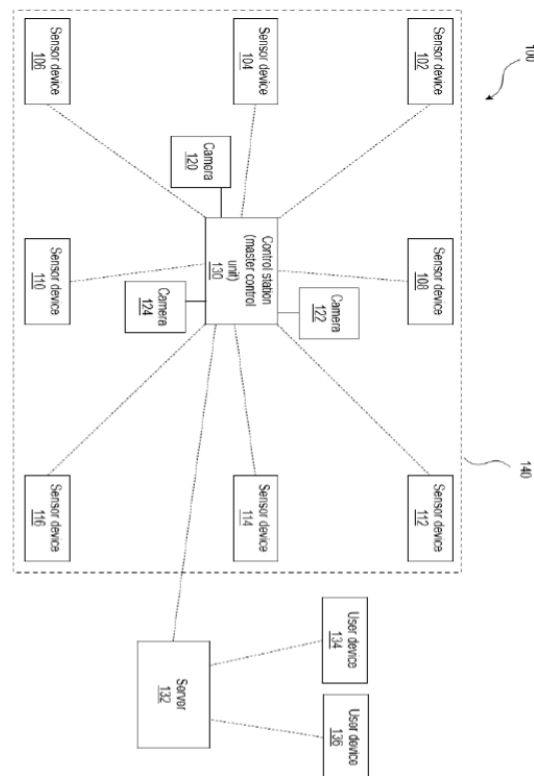
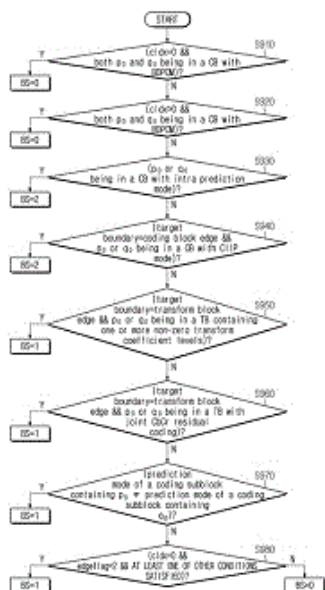
around the desired location, and if there is still no match/availability, the method comprises reverting back to the original desired location and searches for availability using an expanded date range when compared to the originally desired date range, either starting before and/or ending after the originally desired date range, in order to find a match.



21: 2022/10842. 22: 2022/09/30. 43: 2024/02/26  
 51: H04N  
 71: GUANGDONG OPPO MOBILE  
 TELECOMMUNICATIONS CORP., LTD.  
 72: JANG, HYEONG MOON, LEE, SANGHEON  
 33: US 31: 62/994,831 32: 2020-03-25  
**54: METHOD AND APPARATUS FOR  
 ENCODING/DECODING IMAGE, FOR  
 PERFORMING DEBLOCKING FILTERING BY  
 DETERMINING BOUNDARY STRENGTH, AND  
 METHOD FOR TRANSMITTING BITSTREAM**  
 00: -

A method and an apparatus for encoding/decoding an image are provided. The method for decoding an image, according to the present disclosure, comprises the steps of: obtaining a reconstructed picture; determining a target boundary of a deblocking filter in the reconstructed picture; determining a boundary strength for the target boundary; and applying the deblocking filter to the target boundary on the basis of the boundary strength, wherein when the target boundary is a transform block boundary and a color component of the reconstructed picture is a chroma component, the boundary strength is determined on the basis of whether joint CbCr residual encoding is performed on at least one of two blocks adjacent to the target boundary, and the joint CbCr residual encoding may correspond to encoding residual samples for a chroma Cb component and a chroma Cr component into a single transform block.

FIG. 9



21: 2022/11095. 22: 2022/10/11. 43: 2024/01/29

51: G08B

71: SSG HOLDINGS (PROPRIETARY) LIMITED

72: BESTER, Bruce Anthony

**54: SECURITY SYSTEM**

00: -

The invention relates to a security system. The system includes a plurality of sensor devices and a plurality of adjustable video cameras. The sensor devices and the cameras are communicatively coupled to a control station. The control station receives signals or messages from the sensor devices, and, in response to a target of interest being detected by or at one of the sensor devices, it causes a control instruction to be transmitted to at least one of the cameras. The control instruction causes the at least one camera to be adjusted such that its target area substantially corresponds to a zone associated with the sensor device that detected the target of interest. A display may be updated such that it presents a view of the adjusted target area of the at least one camera.

21: 2022/11242. 22: 2022/10/13. 43: 2024/04/10

51: B01J; C07C

71: CHINA PETROLEUM & CHEMICAL CORPORATION, SHANGHAI RESEARCH INSTITUTE OF PETROCHEMICAL TECHNOLOGY, SINOPEC

72: QI, Guozhen, CAO, Jing, LI, Xiaohong, WANG, Hongtao, JIN, Yongming, GAO, Pan

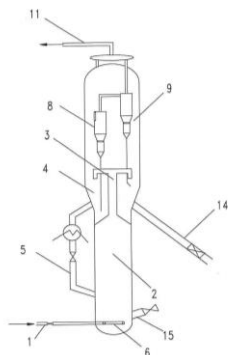
33: CN 31: 202010173926.6 32: 2020-03-13

33: CN 31: 202010173939.3 32: 2020-03-13

**54: METHOD FOR PRODUCING LIGHT OLEFIN FROM OXYGEN-CONTAINING COMPOUND**

00: -

Disclosed is a method for producing a light olefin from an oxygen-containing compound, the method comprising the step of bringing a raw material comprising an oxygen-containing compound into contact with a molecular sieve catalyst in a fluidized bed reaction zone to produce products containing ethylene and/or propylene under effective conditions, wherein the effective conditions involve: in the fluidized bed reaction zone, on the basis of the mass of the molecular sieve in the catalyst, controlling the proportion of the mass of catalysts with various amounts of carbon deposit in the total catalyst mass in the fluidized bed reaction zone.



21: 2022/11681. 22: 2022/10/26. 43: 2024/01/31

51: F16B

71: BONGARTZ, Nicole

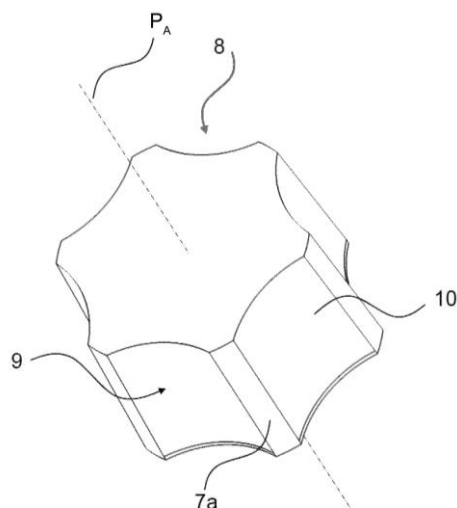
72: BONGARTZ, Nicole

33: DE 31: 10 2020 110 450.2 32: 2020-04-16

#### **54: DRIVE ELEMENT**

00: -

The present invention relates to a drive element (8) which has an internal driving profile (9) that defines a profile axis (PI) and has, on its inner side, a plurality of concave drive faces (6) arranged in a manner distributed regularly around the profile axis (PI), between which planar or convexly curved transitional faces (7a) are provided, or which has an external driving profile (9) that defines a profile axis (PA) and has, on its outer side, a plurality of concave drive faces (10) arranged in a manner distributed regularly around the profile axis (PA), between which planar or convexly curved transitional faces (7a) are provided.



21: 2022/11778. 22: 2022/10/28. 43: 2023/11/08

51: G06F; H04N; G06Q

71: PROZINDU, LLC

72: KAKAIRE, James Kirunda

33: US 31: 63/002,865 32: 2020-03-31

#### **54: COMTOOL COMMUNICATION SYSTEM**

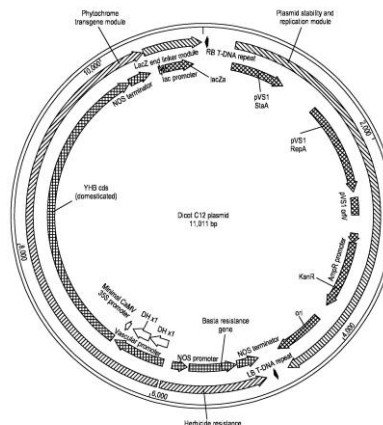
00: -

A system that simplifies electronic communication and data sharing by integrating various apps into one. The COMTOOL communication system is characterized by a color coded user ID as a security feature for preventing imposters in a user's contacts to reduce fake news distribution. The system integrates a photo album, a calendar, a voice over IP, a video chart, a video playback, a religious and political group's app and a forum app into one interface and makes them available as a mobile application on a mobile phone, a web based application hosted on a server and as an application installed in television sets. Data is shared as links to social media platforms. Messaging is internally accessible and contact lists provide email addresses for external interaction. Access to each of the apps is granted individually. A toggle button collapses the primary interface to display the active app and a home button.

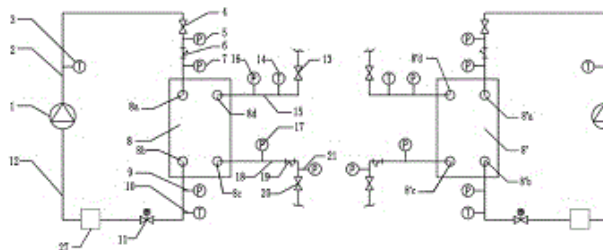




Vascular sheath tissue-specific expression of phytochrome B or variants thereof in  $C_3$  plants increases photosynthesis rate and/or introduces a carbon refixation mechanism. The heritable genetic material of a  $C_3$  plant cell is altered such that one copy of phytochrome B, or active variant or functional fragment thereof is expressed specifically in vascular sheath cells. Whole plants are regenerated from these genetically altered plant cells. Alternatively, a Crispr modification of a native phytochrome locus in a plant cell is used to insert a vascular sheath-specific regulatory element, e.g. promoter or enhancer element, so that phytochrome B is expressed in vascular sheath cells of a regenerated whole plant. Genetically altered whole plants have increased yield-related traits, e.g. increased seed yield, resulting from the enhancement of photosynthesis and/or introduction of a carbon refixation mechanism.



A cooling system, comprising: a heat exchanger module, wherein the heat exchanger module at least comprises a first channel and a second channel that are independent from each other; a first cooling circuit, wherein the first cooling circuit is connected to the first channel of the heat exchanger module; and a second cooling circuit, wherein the second cooling circuit is connected to the first channel of the heat exchanger module, and a first coolant in the first cooling circuit and/or a second coolant in the second cooling circuit can flow through the first channel of the heat exchanger module so as to be used for performing heat exchange with a third coolant that flows through the second channel of the heat exchanger module. According to the cooling system, the reliability of the cooling system can be improved by means of the design of dual cooling circuits.



21: 2022/11894. 22: 2022/11/01. 43: 2024/02/02  
 51: A01N; A01P  
 71: SUMITOMO CHEMICAL COMPANY, LIMITED  
 72: NIIDE, MIKA, UEBAYASHI, TSUGUAKI  
 33: JP 31: 2020-099174 32: 2020-06-08

#### **54: CONTROLLING METHOD FOR INFECTIOUS DISEASE VECTOR**

00: -

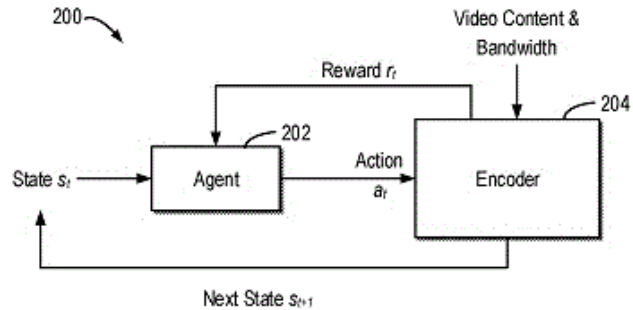
The present invention provides a method for controlling infectious disease vectors, which comprises diluting a formulation comprising a neonicotinoid compound having a volume mean diameter being within a range of 3 to 10  $\mu\text{m}$ , a surfactant and a carrier with water; and spraying the diluted solutions to a surface to be treated such that a treated amount of neonicotinoid compound is within a range of 50 to 800  $\text{mg}/\text{m}^2$ .

21: 2022/11950. 22: 2022/11/02. 43: 2024/02/02  
 51: H04N; G06N  
 71: MICROSOFT TECHNOLOGY LICENSING, LLC  
 72: LI, JIAHAO, LI, BIN, LU, YAN, HOLCOMB, W. TOM, LU, MEI-HSUAN, MEZENTSEV, ANDREY, LEE, MING-CHIEH

#### **54: REINFORCEMENT LEARNING BASED RATE CONTROL**

00: -

Implementations of the subject matter described herein provide a solution for rate control based on reinforcement learning. In this solution, an encoding state of a video encoder is determined, the encoding state being associated with encoding of a first video unit by the video encoder. An encoding parameter associated with rate control in the video encoder is determined by a reinforcement learning model and based on the encoding state of the video encoder. A second video unit different from the first video unit is encoded based on the encoding parameter. In this way, it is possible to achieve a better quality of experience (QOE) for real time communication with computation overhead being reduced.



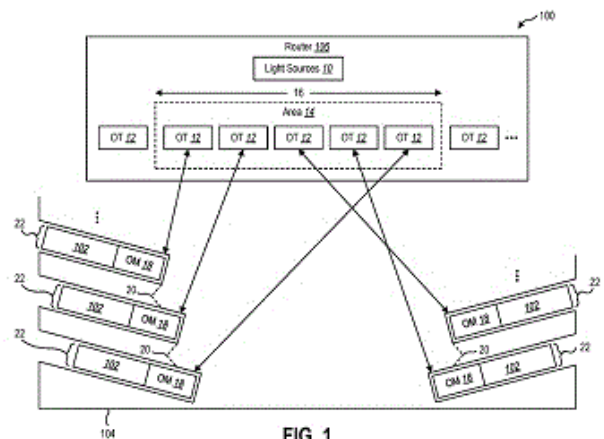
21: 2022/11951. 22: 2022/11/02. 43: 2024/02/02  
 51: H04B  
 71: MICROSOFT TECHNOLOGY LICENSING, LLC  
 72: SAUNDERS, WINSTON ALLEN, BELADY, CHRISTIAN L, HSU, LISA RU-FENG, BALLANI, HITESH, COSTA, PAOLO, CARMEAN, DOUGLAS M

33: US 31: 16/917,829 32: 2020-06-30

#### **54: COMPUTER NODE OPTICAL FREE SPACE INTERCONNECTION**

00: -

A system for using free-space optics to interconnect a plurality of computing nodes can include a plurality of optical transceivers that facilitate free-space optical communications among the plurality of computing nodes. The system may ensure a line of sight between the plurality of computing nodes and the optical transceivers to facilitate the free-space optical communications. The line of sight may be preserved by the position or placement of the computing nodes in the system. The position or placement of the computing nodes may be achieved by using different shaped enclosures for holding the computing nodes.



**FIG. 1**

21: 2022/11952. 22: 2022/11/02. 43: 2024/02/02  
51: H04B

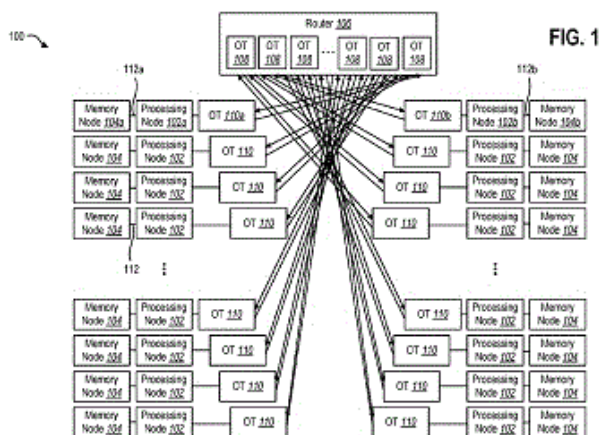
71: MICROSOFT TECHNOLOGY LICENSING, LLC  
72: SAUNDERS, WINSTON ALLEN, BELADY,  
CHRISTIAN L, HSU, LISA R, BALLANI, HITESH,  
COSTA, PAOLO, CARMEAN, DOUGLAS

33: US 31: 16/917,875 32: 2020-06-30

#### **54: USING FREE-SPACE OPTICS TO INTERCONNECT A PLURALITY OF COMPUTING NODES**

00: -

A system for using free-space optics to interconnect a plurality of computing nodes can include a plurality of node optical transceivers that are electrically coupled to at least some of the plurality of computing nodes. The system can also include a plurality of router optical transceivers that facilitate free-space optical communications with the plurality of node optical transceivers. Each node optical transceiver among the plurality of node optical transceivers can have a corresponding router optical transceiver that is optically coupled to the node optical transceiver. The system can also include a router that is coupled to the plurality of router optical transceivers. The router can be configured to route the free-space optical communications among the plurality of computing nodes.



21: 2022/11955. 22: 2022/11/02. 43: 2024/02/02  
51: A61K; A61Q  
71: UNILEVER GLOBAL IP LIMITED  
72: BAPAT, MOHINI ANAND, LAHORKAR, PRAFUL  
GULAB RAO, PERUMAL, RAJKUMAR, TOMAR,  
NIKITA, VAIDYA, ASHISH ANANT  
33: EP 31: 20185857.8 32: 2020-07-15  
33: IN 31: 202021023193 32: 2020-06-02

#### **54: A HIGH SPF SKIN CLEANSING COMPOSITION**

00: -

The invention relates to a personal cleansing composition that delivers enhanced deposition of sunscreens on to the topical surface of the body. The composition more particularly provides for such wash off compositions that ensure that the sunscreens incorporated therein are stable and due to the high deposition on to surface provide high Sun Protection Factor (SPF). This is achieved through combination of two select water-soluble sunscreens in a high surfactant containing composition.

21: 2022/12080. 22: 2022/11/04. 43: 2024/02/02  
51: B22F; B02C; B22D; C22C

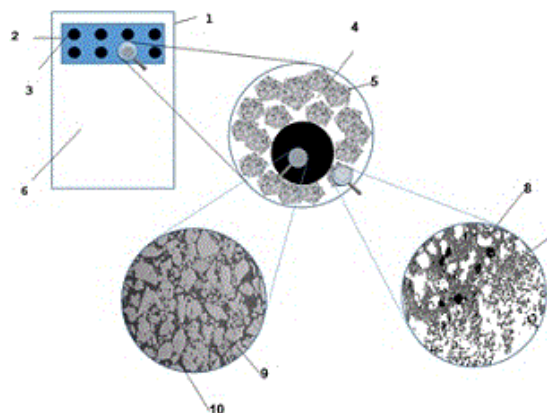
71: MAGOTTEAUX INTERNATIONAL S.A.  
72: BERTON, GUY

33: EP 31: 20177457.7 32: 2020-05-29

#### **54: CERAMIC-METAL COMPOSITE WEAR PART**

00: -

The present invention relates to a wear part made by casting with a reinforced part comprising a ferrous alloy reinforced with metal carbides, nitrides, borides or made of intermetallic alloys for which the reinforced part comprises metal carbide, nitride, boride inserts or intermetallic compounds, previously-manufactured, with defined geometry and inserted into a structure that can be infiltrated with agglomerated grains comprising the reagents needed to form metal or intermetallic carbides, nitrides, borides according to a thermal reaction that is auto-propagated in situ, triggered when the ferrous alloy is cast.



21: 2022/12082. 22: 2022/11/04. 43: 2024/02/02

51: B02C; B22D; B22F; C22C

71: MAGOTTEAUX INTERNATIONAL S.A.

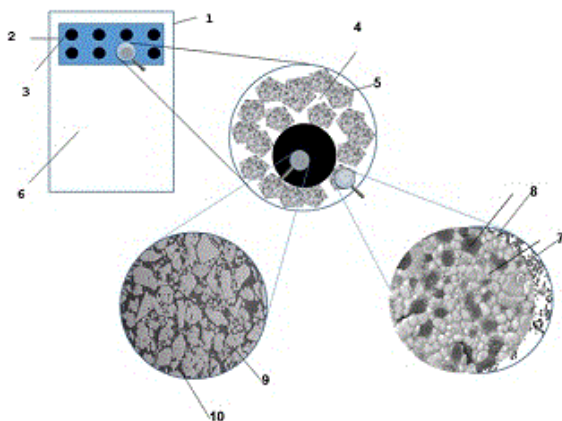
72: BERTON, GUY

33: EP 31: 20177458.5 32: 2020-05-29

#### 54: COMPOSITE WEAR PART

00: -

The present invention relates to a hierarchical wear part comprising a reinforced part which comprises zirconia or an alumina-zirconia alloy, the reinforced part also comprising centimetric inserts having a predefined geometry, the inserts comprising micrometric particles of carbides, nitrides, metal borides or borides made of intermetal compounds bound by a first metal matrix, the inserts being inserted into a reinforcing structure infiltrated with a second metal matrix, the reinforcing structure comprising a periodic alternation of millimetric zones with a high and low concentration of micrometric particles of zirconia or an alumina-zirconia alloy, the second metal matrix being different from the first metal matrix.



21: 2022/12085. 22: 2022/11/04. 43: 2024/02/02

51: A61K; A61Q

71: UNILEVER GLOBAL IP LIMITED

72: ELLISON, MATTHEW DAVID, MORIKIS,

THOMAS NIKOLAOS, VELEZIS, NICHOLAS

ARTHUR, CROTTY, BRIAN ANDREW

33: EP 31: 20178260.4 32: 2020-06-04

#### 54: COOLING PERSONAL CARE COMPOSITION COMPRISING A POLYOL AND A POLYOXYETHYLENE-POLYOXYPROPYLENE BLOCK COPOLYMER

00: -

The present invention is directed to a personal care composition with an effective way to impart a cooling

effect on the skin upon topical application of a composition made according to the present invention. The invention thus relates to a composition comprising a synergistic combination of polyol, a sensory modifier and water with polyoxyethylene-polyoxypropylene block copolymer.

21: 2022/12095. 22: 2022/11/04. 43: 2024/02/19

51: A61K; A61P; C07D

71: Merck Sharp & Dohme LLC

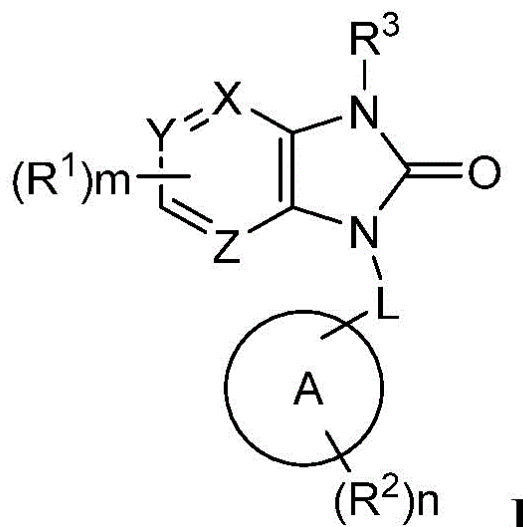
72: CASH, Brandon D., FU, Wenlang, GIAMBASU, George Madalin, HADLE, Andrew M., HOPKINS, Brett A., LARSEN, Matthew A., LESBURG, Charles A., LIU, Ping, MCGOWAN, Meredith A., PU, Qinglin, SANYAL, Sulagna, SILIPHAIVANH, Phieng, WHITE, Catherine M., YAN, Xin

33: US 31: 63/020,614 32: 2020-05-06

#### 54: IL411 INHIBITORS AND METHODS OF USE

00: -

Described herein are compounds of Formula I or a pharmaceutically acceptable salt thereof. The compounds of Formula I act as IL411 inhibitors and can be useful in preventing, treating or acting as a remedial agent for IL411-related diseases.



21: 2022/12098. 22: 2022/11/04. 43: 2024/04/03

51: H04W

71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)

72: SCHLIWA-BERTLING, Paul, VESELY, Alexander, RÖNNEKE, Hans Bertil

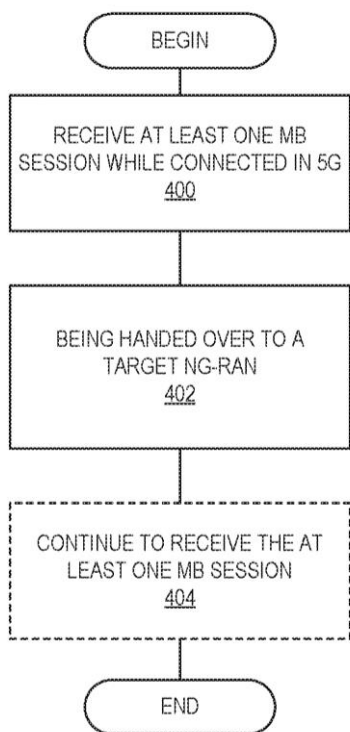
33: US 31: 63/029,116 32: 2020-05-22

#### 54: 5G MULTICAST BROADCAST SERVICE HANDOVER



00: -

Systems and methods for session continuity of Multicast Broadcast (MB) Sessions are provided. In some embodiments, a method performed by a base station for session continuity of MB Sessions includes at least one of: providing at least one MB Session to a wireless device connected in 5G; determining that the wireless device is handed over to a target Next Generation Radio Access Network (NG-RAN); and providing session continuity of the at least one MB Session to the wireless device. In some embodiments, being handed over to the target NG-RAN comprises an Xn handover. In some embodiments, being handed over to the target NG-RAN comprises a N2 handover. Some embodiments of the current disclosure provide support for Multicast Broadcast Session continuity (aka "Handover") at Inter-gNB Xn Handover and Inter-gNB N2 Handover in the 5G NR radio access.



21: 2022/12127. 22: 2022/11/07. 43: 2024/02/20  
51: A61K; A61P; C07D  
71: ZYUS LIFE SCIENCES INC.  
72: ABRISHAMI, MAHSA  
33: US 31: 17/038,048 32: 2020-09-30  
33: US 31: 63/145,040 32: 2021-02-03  
33: US 31: 63/015,039 32: 2020-04-24

#### 54: CANNABICHROMENE FORMULATION FOR PAIN MANAGEMENT

00: -

A formulation for pain management is provided comprising cannabichromene as the primary cannabinoid together with an excipient and, optionally, one or more secondary cannabinoids in an amount of up to 5% by weight of the primary cannabinoid. The formulation is essentially free of tetrahydrocannabinol. The types of pain to be managed with the formulation include but are not limited to the treatment of neuropathic pain, pain due to cancer, injury, accident, surgery, or tissue damage. Methods of use of the formulation, doses and dosage forms are described.

21: 2022/12128. 22: 2022/11/07. 43: 2024/02/02  
51: A61K; A61P

71: ALKEM LABORATORIES LIMITED  
72: DHUPPAD, ULHAS, SHARMA, AKHILESH, AWARE, BABASAHEB, SHAH, VIRAJ, AIWALE, AMOL

33: IN 31: 201921053286 32: 2020-06-15

#### 54: COMBINATION OF ALCAFTADINE AND A CORTICOSTEROID

00: -

The present invention relates to a topical pharmaceutical composition comprising alcaftadine or a pharmaceutically acceptable salt thereof and a corticosteroid or a pharmaceutically acceptable salt thereof, methods of treating allergic rhinitis, allergic rhino-conjunctivitis, or symptoms thereof (such as nasal congestion) with a combination of alcaftadine or a pharmaceutically acceptable salt thereof and a corticosteroid or a pharmaceutically acceptable salt thereof, and methods of preparing the topical composition.

21: 2022/12129. 22: 2022/11/07. 43: 2024/02/02  
51: A61K; A61Q

71: UNILEVER GLOBAL IP LIMITED  
72: KULKARNI, ADITI JAYAVANT, PAWAR, ANKITA RUTU

33: EP 31: 20181717.8 32: 2020-06-23

#### 54: COSMETIC COMPOSITION FOR IMPROVING APPEARANCE OF SKIN

00: -

Disclosed is a cosmetic composition comprising: i) Aluminum Starch Octenylsuccinate; and, ii) an ingredient having INCI name Aluminum Starch



Octenylsuccinate (and) Acrylates Copolymer (and) Magnesium Carbonate.

21: 2022/12130. 22: 2022/11/07. 43: 2024/02/08

51: B02C

71: KABUSHIKI KAISHA EARTHTECHNICA

72: KIJIMA, TAKASHI, KOBAYASHI, JUN, SATO, YOSHICHIKA, MASUDA, TAKAYUKI

33: JP 31: 2020-102437 32: 2020-06-12

#### **54: CRUSHING STATE DETERMINING DEVICE AND CRUSHING STATE DETERMINING METHOD**

00: -

A crushing state determining device includes a determiner that determines a state of to-be-crushed objects in a crushing chamber. The determiner: obtains a predetermined value relating to a revolving trajectory of a main shaft relative to a center axis of a concave; and determines the state of the to-be-crushed objects in the crushing chamber by comparing a predetermined parameter obtained from the revolving trajectory with a reference value, the revolving trajectory being estimated from the predetermined value.

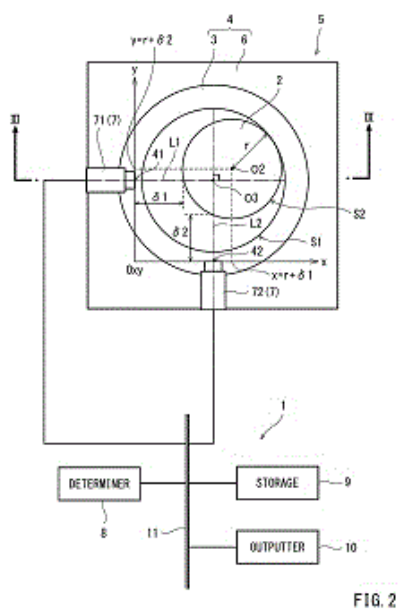


FIG. 2

21: 2022/12131. 22: 2022/11/07. 43: 2024/02/02

51: A61K; A61Q

71: UNILEVER GLOBAL IP LIMITED

72: LAHORKAR, PRAFUL GULAB RAO, PERUMAL, RAJKUMAR, VAIDYA, ASHISH ANANT

33: IN 31: 202021023192 32: 2020-06-02

33: EP 31: 20185852.9 32: 2020-07-15

#### **54: A HIGH UV PROTECTION CLEANSING COMPOSITION**

00: -

The invention relates to a personal cleansing composition that delivers enhanced deposition of sunscreens on to the topical surface of the body thereby ensuring high UV protection to the surface while the skin is washed clean of undesirable oils and dirt. This is achieved through incorporation of select water-soluble sunscreens in a high surfactant containing composition. The composition comprises 3 to 80% surfactant, 0.1 to 10 wt% water soluble organic sunscreen and a cosmetically acceptable carrier. The sunscreen is disodium phenyl dibenzimidazole tetrasulfonate, terephthalylidene dicamphor sulfonic acid or a combination thereof.

21: 2022/12180. 22: 2022/11/08. 43: 2024/02/02

51: A61K

71: ALTERED LABS LLC

72: ECHEVERRY CAMPOS, DARIO

33: US 31: 63/025,685 32: 2020-05-15

#### **54: IMMUNE BOOSTER SUPPLEMENT TREATMENT KIT AND METHODS OF USE**

00: -

A method of preventing viral infection and/or treating viral infection and/or one or more symptoms of viral infection is disclosed. Also disclosed are compositions prepared using reducing gas which are useful for treating viral infection or symptoms thereof and/or preventing viral infection. Various dosage forms prepared using said compositions are described, including drinkable formulations, concentrated drops, concentrated syrups, compositions formulated for nasal administration, and tablets and capsules. A kit for preparing said compositions is also described.

21: 2022/12228. 22: 2022/11/09. 43: 2024/02/05

51: F03D

71: BEIJING GOLDWIND SCIENCE & CREATION WINDPOWER EQUIPMENT CO., LTD.

72: CUI, YUFEI

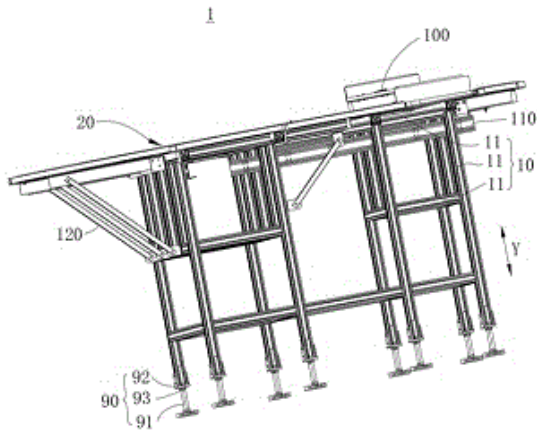
33: CN 31: 202010342220.8 32: 2020-04-27

#### **54: SUPPORT DEVICE AND WIND GENERATING SET**

00: -

A support device (1) and a wind generating set. The support device is used for the wind generating set, and the wind generating set comprises an electrical

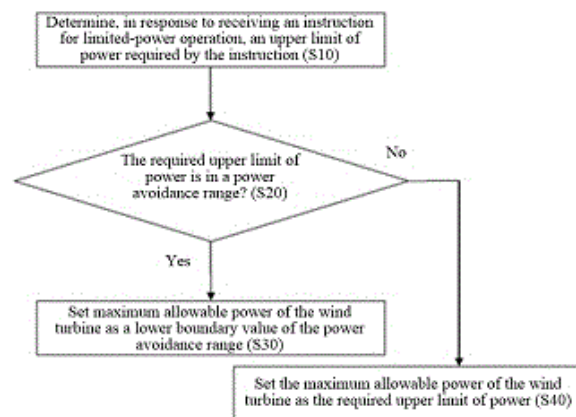
apparatus (3). The support device comprises: a support frame (10) which is of a hollow frame structure and comprises a plurality of beam structures (11), wherein the adjacent beam structures are connected to each other, and a relative position between at least one set of two beam structures with a connection relationship is adjustable; and a support platform (20) arranged on one surface of the support frame in a height direction of the support frame and connected to the beam structure, wherein the support platform is used for supporting the electrical apparatus. The device can be used for supporting the electrical apparatus of the wind generating set, and at the same time, the size and/or bearing capacity can be changed according to apparatus requirements, and a better universality is achieved.



21: 2022/12229. 22: 2022/11/09. 43: 2024/02/05  
51: F03D  
71: BEIJING GOLDWIND SCIENCE & CREATION  
WINDPOWER EQUIPMENT CO., LTD.  
72: ZHANG, XINLI  
33: CN 31: 202010597078.1 32: 2020-06-28  
**54: WIND TURBINE GENERATOR SYSTEM, AND  
ROTATION SPEED AVOIDANCE CONTROL  
METHOD AND APPARATUS THEREFOR**  
00: -

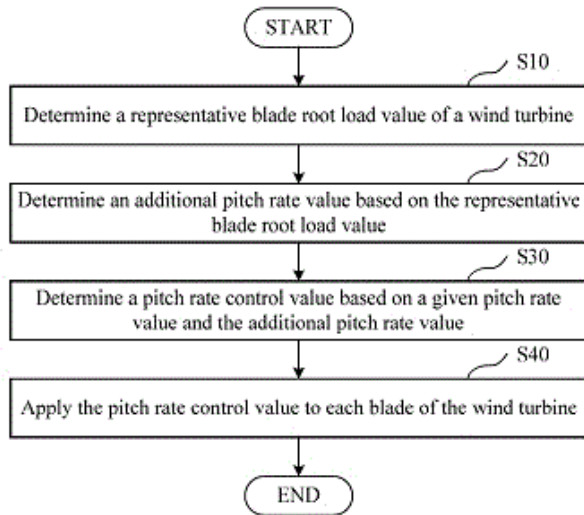
A rotation speed avoidance control method for a wind turbine generator system. The method comprises: when a power-limited operation instruction is received, determining a power value upper limit required by the instruction; determining whether the required power value upper limit is in a power avoidance interval corresponding to a rotation speed avoidance interval; and when the required

power value upper limit is in the power avoidance interval, setting the maximum allowable power value of a wind turbine generator system to be a lower boundary value of the power avoidance interval. An upper boundary value of the power avoidance interval is a power value determined on the basis of an upper boundary value of the rotation speed avoidance interval, and the lower boundary value of the power avoidance interval is a power value determined on the basis of a lower boundary value of the rotation speed avoidance interval, wherein the rotation speed avoidance interval and the power avoidance interval are open intervals. By means of the control method, an operation range of the rotation speed of a wind turbine generator system in a power-limited operation state can be prevented from overlapping with a rotation speed avoidance interval, thereby preventing resonance of the generator system, load increase or other safety problems. In addition, the present invention further relates to an apparatus for implementing the control method, and a wind turbine generator system.



21: 2022/12230. 22: 2022/11/09. 43: 2024/02/05  
51: F03D  
71: BEIJING GOLDWIND SCIENCE & CREATION  
WINDPOWER EQUIPMENT CO., LTD.  
72: LIU, ZHONGPENG  
33: CN 31: 202010542560.5 32: 2020-06-15  
**54: LOAD REDUCTION CONTROL METHOD FOR  
WIND TURBINE GENERATOR AND DEVICE**  
00: -  
A load reduction control method for a wind turbine generator, the load reduction control method comprising: determining a representative blade root load value of a wind turbine generator (10);

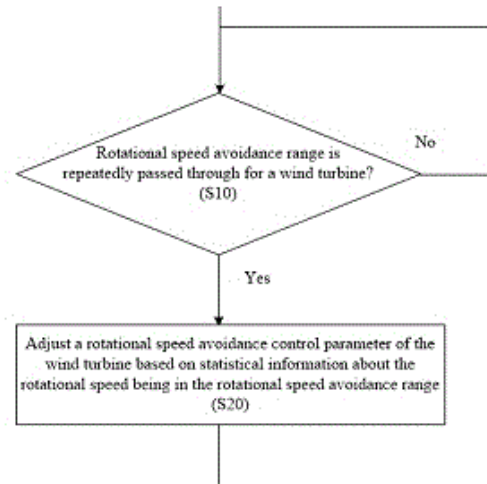
determining an additional variable pitch rate value on the basis of the representative blade root load value; determining a variable pitch rate control value according to a variable pitch rate specified value and the additional variable pitch rate value; and simultaneously applying the variable pitch rate control value to blades (15) of the wind turbine generator so as to control the blades (15) of the wind turbine generator (10) to perform a variable pitch action. A device and system using the load reduction control method for a wind turbine generator are further provided. The load level of the whole machine can be greatly reduced in the case where there is little influence on the generating capacity.



21: 2022/12231. 22: 2022/11/09. 43: 2024/02/05  
 51: F03D  
 71: BEIJING GOLDWIND SCIENCE & CREATION WINDPOWER EQUIPMENT CO., LTD.  
 72: ZHANG, XINLI, HU, YE  
 33: CN 31: 202010597154.9 32: 2020-06-28  
**54: WIND TURBINE GENERATOR SYSTEM, AND ROTATION SPEED AVOIDANCE CONTROL METHOD AND APPARATUS THEREFOR**  
 00: -

A wind turbine generator system and a rotation speed avoidance control method therefor. The method comprises: according to statistical information of the rotation speed of a generator being in a rotation speed avoidance interval, identifying whether a wind turbine generator system repeatedly falls within the rotation speed avoidance interval; and when it is determined that the wind

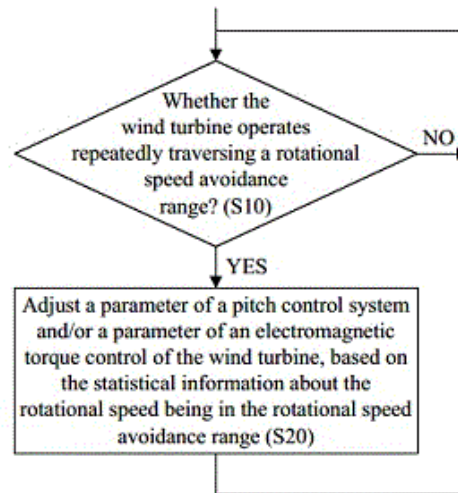
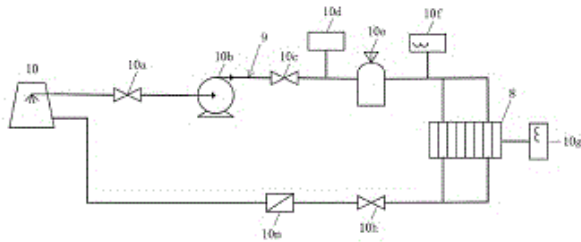
turbine generator system repeatedly falls within the rotation speed avoidance interval, adjusting a rotation speed avoidance control parameter of the wind turbine generator system according to the statistical information of the rotation speed being in the rotation speed avoidance interval. Correspondingly, further provided is a rotation speed avoidance control apparatus for a wind turbine generator system.



21: 2022/12232. 22: 2022/11/09. 43: 2024/02/05  
 51: F16F  
 71: BEIJING GOLDWIND SCIENCE & CREATION WINDPOWER EQUIPMENT CO., LTD.  
 72: GAO, YANG, ZHANG, ZHIHONG, XU, ZHILIANG  
 33: CN 31: 202010606894.4 32: 2020-06-29  
**54: HYBRID DAMPING MODULE, VIBRATION SUPPRESSION DEVICE, VIBRATION SUPPRESSION METHOD, AND WIND TURBINE SET**  
 00: -

A hybrid damping module, a vibration suppression device, a vibration suppression method, and a wind turbine set. The hybrid damping module comprises a first damping unit (8). The first damping unit (8) comprises a rotor portion (8a) and a stator portion (8b) that is provided parallel to the rotor portion (8a). The rotor portion (8a) is configured to capable of rotating relative to the stator portion (8b) so as to generate electromagnetic damping. A flow passage is formed in at least one of the rotor portion (8a) and the stator portion (8b). The hybrid damping module comprises a second damping unit (10) comprising a liquid damper. The liquid damper communicates with

the flow passage and forms a circulation loop. A liquid (10p) in the liquid damper can cyclically flow in the circulation loop. In the hybrid damping module, a combined vibration suppression solution that combines a TMD and TLD is provided. By means of using a TMD and TLD in combination, the vibration suppression effect of the hybrid damping module can be increased. Furthermore, the problem of the attenuation of damping force caused by increasing temperature in a permanent magnet eddy current damping device is addressed.



21: 2022/12233. 22: 2022/11/09. 43: 2024/02/05

51: F03D

71: BEIJING GOLDWIND SCIENCE & CREATION WINDPOWER EQUIPMENT CO., LTD.

72: ZHANG, XINLI

33: CN 31: 202010597821.3 32: 2020-06-28

#### **54: WIND TURBINE GENERATOR, AND MINIMUM ROTATIONAL SPEED CONTROL METHOD AND DEVICE THEREFOR**

00: -

A wind turbine generator, and a minimum rotational speed control method therefor. The method comprises: identifying, according to statistical information obtained when rotational speeds of generators are in respective minimum rotational speed intervals, whether or not a wind turbine generator has repeatedly entered a minimum rotational speed interval; and if so, adjusting, according to the statistical information obtained when the rotational speeds are in the minimum rotational speed intervals, a pitch control system parameter and/or an electromagnetic torque control parameter of the wind turbine generator. The method can avoid abnormalities caused to a generator when same repeatedly enters a minimum rotational speed interval. The present invention further relates to a control device for implementing the above control method.

21: 2022/12234. 22: 2022/11/09. 43: 2024/02/05

51: H02J

71: GOLDWIND SCIENCE & TECHNOLOGY CO., LTD.

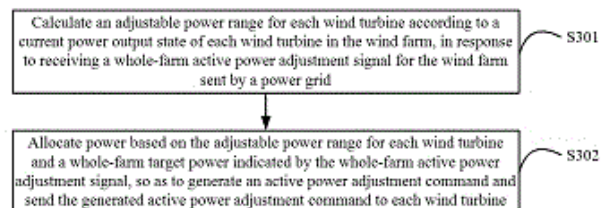
72: YU, CHI, XIAO, SHUOWEN, WANG, ZELIN

33: CN 31: 202010599002.2 32: 2020-06-28

#### **54: METHOD AND APPARATUS FOR CONTROLLING POWER OF WIND FARM**

00: -

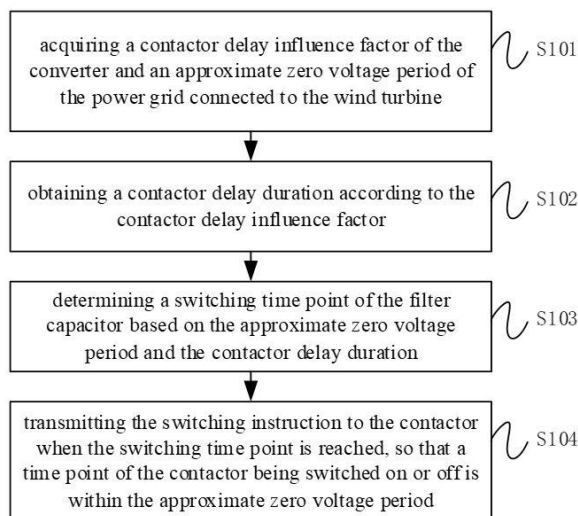
Provided are a method and apparatus for controlling the power of a wind farm. The method for controlling the power of a wind farm comprises: in response to receiving a whole-farm active adjustment signal that is sent by a power grid for a wind farm, calculating an adjustable power range of each wind turbine generator set according to the current power output state of each wind turbine generator set in the wind farm; and on the basis of the adjustable power range of each wind turbine generator set and a whole-farm target power indicated by the whole-farm active adjustment signal, calculating a power to be distributed to each wind turbine generator set, so as to generate an active power regulation instruction, and issuing the generated active power regulation instruction to each wind turbine generator set.





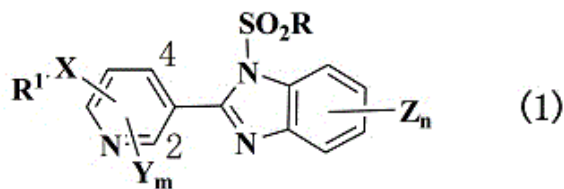
21: 2022/12235. 22: 2022/11/09. 43: 2024/04/03  
 51: H02J  
 71: BEIJING GOLDWIND SCIENCE & CREATION  
 WINDPOWER EQUIPMENT CO., LTD.  
 72: CHEN, Liquan, DUAN, Liaoran  
 33: CN 31: 202010602986.5 32: 2020-06-29  
**54: WIND TURBINE AND CONVERTER FILTER  
 CAPACITOR SWITCHING CONTROL METHOD,  
 DEVICE AND SYSTEM THEREFOR**  
 00: -

The present application provides a wind turbine and a converter filter capacitor switching control method, device and system therefor, and relates to the technical field of wind power generation. The method includes: acquiring a contactor delay influence factor of the converter and an approximate zero voltage period of the power grid connected to the wind turbine, wherein an absolute value of a voltage of the power grid in the approximate zero voltage period is less than an approximate zero voltage threshold; obtaining a contactor delay duration according to the contactor delay influence factor, wherein the contactor delay duration is a duration from when the contactor receives a switching instruction to when the contactor is switched on or off; determining a switching time point of the filter capacitor based on the approximate zero voltage period and the contactor delay duration; transmitting the switching instruction to the contactor when the switching time point is reached, so that a time point of the contactor being switched on or off is within the approximate zero voltage period. Using the technical solution of the present application can reduce the risk of failure of the wind turbine.



21: 2022/12291. 22: 2022/11/10. 43: 2024/02/05  
 51: A01M; A61P; C07D; A01P; A01N; A61K  
 71: NIHON NOHYAKU CO., LTD.  
 72: FUJIHARA, HIROKAZU, FUCHI, SHUNSUKE,  
 ABE, YUTAKA  
 33: JP 31: 2020-115725 32: 2020-07-03  
 33: JP 31: 2020-151716 32: 2020-09-10  
**54: ANTICOCCIDIAL AGENT AND METHOD FOR  
 USING THE SAME**  
 00: -

Developed and provided are: an anticoccidial agent, and a using method thereof, where the anticoccidial agent has an excellent anticoccidial activity and can eliminate or minimize mass outbreak of coccidiosis. Thus, provided are: an anticoccidial agent containing, as an active ingredient, a benzimidazole compound represented by General Formula (1), or a salt of the compound, and a method for using the agent. General Formula (1) is expressed as follows: wherein R<sup>1</sup> typically represents haloalkyl; X typically represents oxygen; R typically represents alkyl; Y represents halogen; m denotes 0 or 1; Z represents alkyl or halogen; and n denotes 0, 1, or 2.



21: 2022/12292. 22: 2022/11/10. 43: 2024/02/05  
 51: C07D; A01M; A01N; A01P



71: NIHON NOHYAKU CO., LTD.

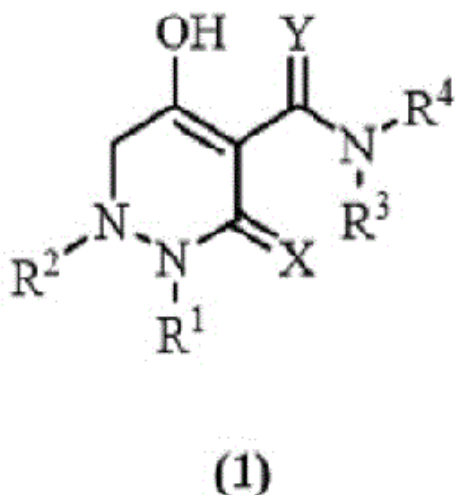
72: TANAKA, KOJI, TANAKA, RYOSUKE, MATSUI, SHUNSUKE, YAMADA, TAKAYUKI

33: JP 31: 2020-110400 32: 2020-06-26

**54: ARYLTETRAHYDROPYRIDAZINE DERIVATIVE OR SALT THEREOF, INSECTICIDAL AGENT CONTAINING THE COMPOUND, AND METHOD OF USE THEREOF**

00: -

Crop production in agriculture, horticulture, and the like has still been significantly damaged by pests and the like, and pests that are resistant to existing drugs have appeared. Due to such concerns, it is desired to develop novel insecticidal agents and acaricides. The present invention has found that a compound represented by general formula (1): wherein X and Y represent an oxygen atom or a sulfur atom, R<sup>1</sup> represents a hydrogen atom or the like, R<sup>2</sup> represents a substituted phenyl group or the like, R<sup>3</sup> represents a hydrogen atom or the like, and R<sup>4</sup> represents a phenyl group or the like, or a salt thereof has a high insecticidal effect on pests in agriculture and horticulture, and the like. The present invention provides an agricultural and horticultural insecticidal agent containing the compound or a salt thereof as an active ingredient, and a method of use thereof.



21: 2022/12295. 22: 2022/11/10. 43: 2024/02/05

51: A61B; A61N

71: REPERIO HEALTH, INC.

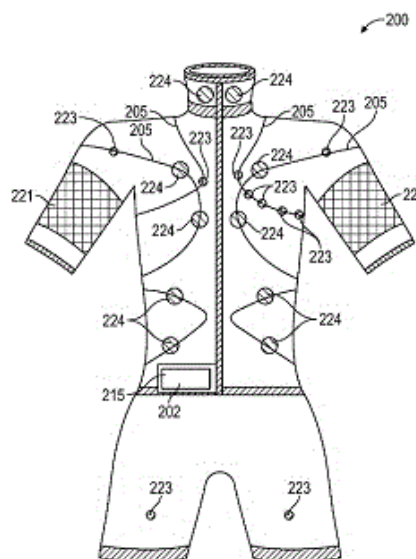
72: RUSH, TRAVIS BENJAMIN, WALLINGTON, MATTHEW ROBERT

33: US 31: 63/019,154 32: 2020-05-01

**54: WEARABLE PHYSICAL HEALTH TESTING SYSTEMS AND ASSOCIATED DEVICES AND METHODS**

00: -

Wearable physical health testing systems and associated devices and methods are disclosed herein. A wearable system configured in accordance with embodiments of the present technology can include, for example, a communications hub, and a plurality of physical health testing devices. The communications hub and the plurality of physical health testing devices can be integrated into an article of clothing, such as a jacket, a shirt, or a body suit. The physical health testing devices are in wired and/or wireless communication with the communications hub. Each physical health testing device is configured to generate physical health data of a user and to transmit generated physical health data to the communication hub and/or a user's mobile device. The wearable system provides an automated physical exam that can be performed at user's homes or other convenient locations.



21: 2022/12345. 22: 2022/11/11. 43: 2024/02/06

51: C07K; A61K

71: NAVIGO PROTEINS GMBH

72: BOSSE-DOENECKE, EVA, GLOSER-

BRÄUNIG, MANJA, HAUPTS, ULRICH

33: EP 31: 21155334.2 32: 2021-02-04

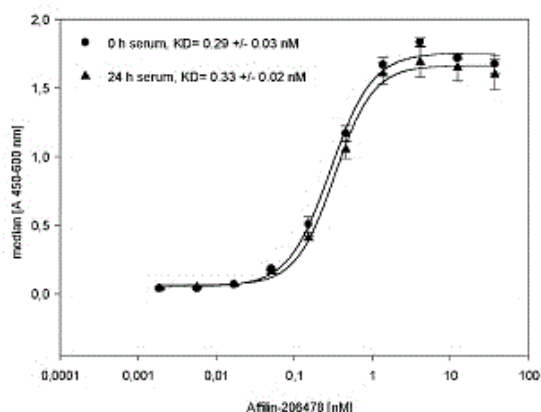
33: EP 31: 20186113.5 32: 2020-07-16

**54: SERUM STABLE BINDING PROTEINS FOR HUMAN HER2 FOR THERANOSTIC APPLICATIONS**

00: -

The present disclosure relates to new serum stable non-immunoglobulin binding proteins based on ubiquitin scaffold that are highly specific for membrane-bound receptor tyrosine kinase (Her2). The disclosure provides novel specific recombinant Her2 binding proteins with high serum stability essentially combined with high temperature stability and high affinity for Her2 for uses in medical applications for diagnosis or therapy of cancer with Her2 overexpression, in particular, for radiopharmaceutical applications.

FIGURE 8. Serum stability of Her2 binding protein Affilin-206478



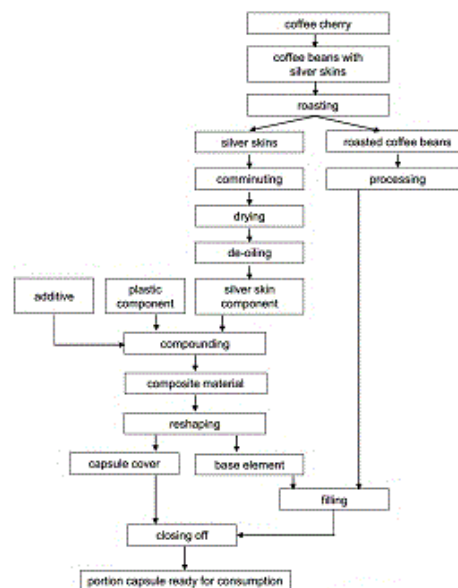
21: 2022/12346. 22: 2022/11/11. 43: 2024/02/06  
51: B65D  
71: TCHIBO GMBH  
72: VON STADEN, HELENA  
33: EP 31: 20173767.3 32: 2020-05-08

**54: COMPOSITE MATERIAL WITH A COMPONENT HARVESTED FROM THE SILVERSKIN OF COFFEE CHERRIES, AND PORTION CAPSULE COMPRISING SAID COMPOSITE MATERIAL**

00: -

The invention deals with the area of beverage preparation, in particular coffee, while using a portion capsule and relates to a portion capsule (1) with a base element (11) for receiving an extraction product, to a method for producing the portion capsule, to a composite material which can be particularly efficiently produced in the field of coffee portion capsule production, and to a method for producing the composite material. The composite material has a component which is produced from

the silverskin of coffee cherries, and a portion capsule (1) according to the invention comprises said composite material.

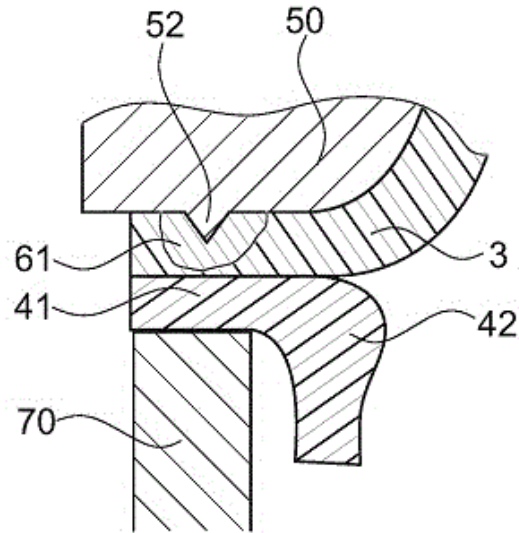
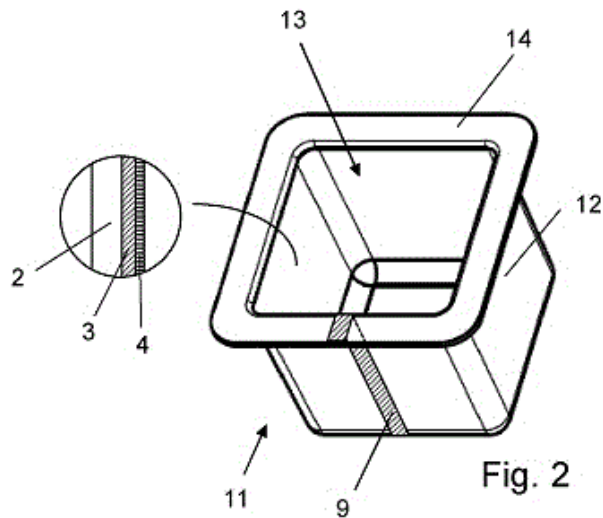


21: 2022/12347. 22: 2022/11/11. 43: 2024/02/06  
51: B65D  
71: TCHIBO GMBH  
72: BRÖCKEL, JENS  
33: EP 31: 20173768.1 32: 2020-05-08

**54: PORTION CAPSULE AND METHOD FOR PRODUCING A PORTION CAPSULE**

00: -

The invention deals with the area of beverage preparation, in particular coffee, while using a portion capsule and relates to a portion capsule (1) with a base element (11) for receiving an extraction product and to a method for producing the portion capsule. The portion capsule (1) has a base region (16) and a peripheral lateral wall (12), wherein the base region and the peripheral lateral wall form an interior. At least the peripheral lateral wall (12) comprises a cellulose-based sheet (2) and is made by completely winding the cellulose-based sheet (2) about a base element axis (15).



21: 2022/12348. 22: 2022/11/11. 43: 2024/02/06

51: B65B; B29C; B29L

71: TCHIBO GMBH

72: MÜLLER, RALF

33: EP 31: 20173756.6 32: 2020-05-08

**54: METHOD FOR PRODUCING A SINGLE-SERVE CAPSULE, AND SINGLE-SERVE CAPSULE**

00: -

The invention relates to a method for producing a capsule, comprising the following steps: providing a main body (2) consisting of a plastic and having a bottom region (5), a circumferential side wall (6) and a circumferential main body collar (41) adjoining the circumferential side wall; providing a lid (3) consisting of a plastic; filling the main body (2) with an extract material; placing the lid (3) onto the main body (2) such that a fastening part of the lid rests on the main body collar (41); and fastening the lid collar to the main body collar by ultrasonic welding. When the lid collar is fastened, an inner surface (33) of the fastening part lies flat on a collar surface (43) of the main body collar. A sonotrode (50) to which mechanical vibrations are applied and which has an energy director (52) is pressed against an outer surface (34) of the fastening part or the main body collar such that plastic material of the lid and of the main body collar begins to liquefy at the outer surface as a result of the effect of the mechanical vibrations.

21: 2022/12349. 22: 2022/11/11. 43: 2024/02/06

51: B65D

71: TCHIBO GMBH

72: BRÖCKEL, JENS, KREIS, DOROTHEE

33: EP 31: 20173758.2 32: 2020-05-08

**54: SINGLE-SERVE CAPSULE**

00: -

According to one aspect of the present invention, the single-serve capsule (1) has one base element (2), for example a cup-like base element, having a capsule bottom (4) and a circumferential side wall (3). A lid element (8) is fastened on the base element (2) and together with same forms an interior (7) having an extraction material region which is filled with an extraction material. A filter element (11) is placed into the interior (7). Said filter element separates the extraction material region from the capsule bottom or from a capsule lid formed by the lid element. The filter element (11) is formed from an open-pored foam.

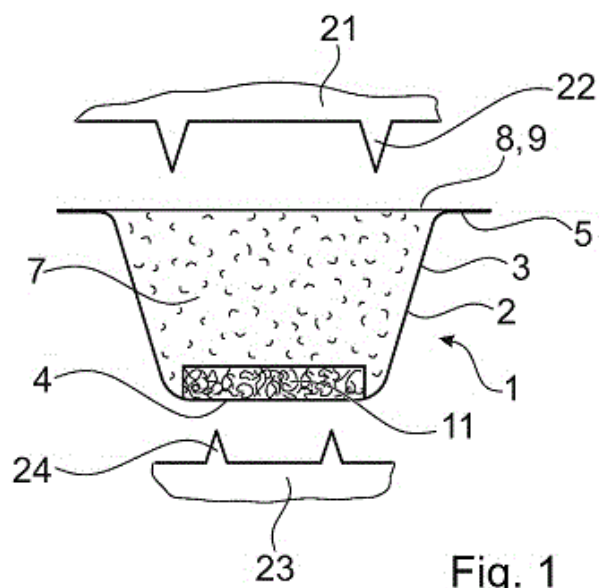


Fig. 1

21: 2022/12401. 22: 2022/11/14. 43: 2024/02/06

51: C22B; C01G

71: COMMONWEALTH SCIENTIFIC AND

INDUSTRIAL RESEARCH ORGANISATION

72: DAS, GOUTAM KUMAR

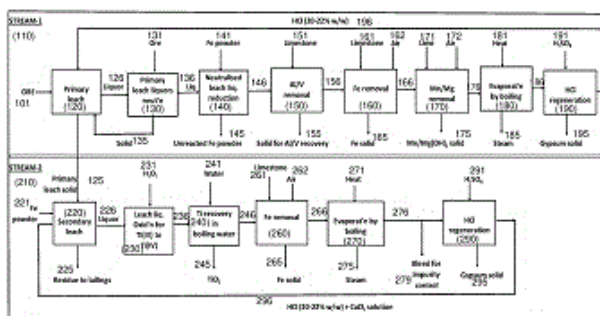
33: AU 31: 2020901698 32: 2020-05-26

**54: PROCESS FOR RECOVERING TITANIUM DIOXIDE**

00: -

A process for recovering titanium dioxide from a titanium-bearing material, the process including the steps of: leaching the titanium-bearing material in a first leaching step at atmospheric pressure and at a temperature of 70 to 97°C with a first lixiviant to produce a first leach solution comprising undissolved first leach solids that include a titanium content and a first leach liquor, the first lixiviant comprising hydrochloric acid at a concentration of less than 23 % w/w; separating the first leach liquor and the undissolved first leach solids; leaching the first leach solids in a second leaching step at atmospheric pressure and at a temperature of 60 to 80°C with a second lixiviant in the presence of a Fe powder reductant to produce a second leach solution comprising undissolved second leach solids and a second leach liquor that includes a leached titanium content and iron content, the second lixiviant comprising a mixed chloride solution comprising less than 23 % w/w hydrochloric acid and an additional chloride selected from alkali metal chlorides, magnesium chloride and calcium chloride, or

mixtures thereof; separating the second leach liquor and the undissolved second leach solids; and thereafter separating the titanium dioxide and the iron content from the second leach liquor by precipitation, and regenerating the second lixiviant for recycle to the second leaching step.



21: 2022/12402. 22: 2022/11/14. 43: 2024/02/06

51: A61K; A61Q

71: UNILEVER GLOBAL IP LIMITED

72: BARFOOT, RICHARD JONATHAN, COOKE,

MICHAEL JAMES, MENDOZA FERNANDEZ,

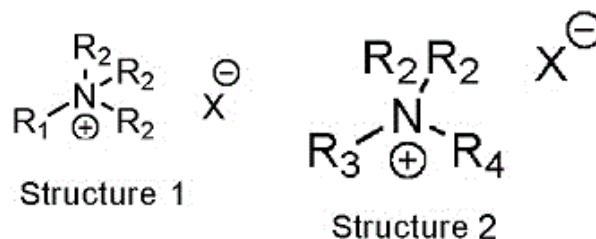
CESAR ERNESTO, PRICE, PAUL DAMIEN

33: EP 31: 20181260.9 32: 2020-06-19

**54: HAIR CONDITIONING COMPOSITION FOR IMPROVED DEPOSITION**

00: -

A conditioning composition results in improved particulate benefit agent deposition on to hair, said composition comprising: (i) 0.01 to 10 wt% of a linear cationic conditioning primary surfactant; selected from structure 1 and mixtures thereof; (ii) 0.1 to 10 wt % of a linear fatty material; (iii) a particulate benefit agent selected from conditioning actives and mixtures thereof; (iv) 0.01 to 5 wt % of a linear di-alkyl cationic co-surfactant, selected from structure 2 and mixtures thereof.



21: 2022/12455. 22: 2022/11/15. 43: 2024/02/06

51: B60P

71: CATERPILLAR INC.

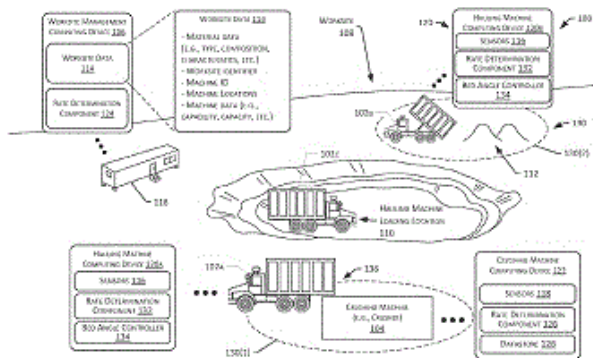
72: GRAMBIHLER, KENNETH F, LANDES, JAMES W, NEWTON, HARRY P, TABOR, JOSEPH E, VAN DE VEER, BRAD R, WULF, STEFAN

33: US 31: 16/854,723 32: 2020-04-21

#### 54: SYSTEMS AND METHODS FOR CONTROLLING A DISCHARGE RATE OF A HAULING MACHINE

00: -

A system (100) includes one or more processors (190)(914)(918) configured to determine a discharge rate (324) associated with discharging material (418) from a hauling machine (102). In some examples, the system (100) receives sensor data (412) associated with a crushing machine (404) configured to receive the material. Based on the sensor data (412), the system (100) determines the discharge rate (324), to optimize the efficiency of the crushing machine (404). In some examples, the system (100) determines the discharge rate (324) based on input (202) by an operator (204) via a user interface (206). In some examples, the system (100) determines an angular rate (226) at which to raise a bed (222) of the hauling machine (102) to cause the material to be discharged at the discharge rate (324). Based on a determination to discharge material, the system causes the bed (222) to be raised at the angular rate (224) to discharge material. In some examples, the system may update the discharge rate (324) based on additional sensor data (614) and/or an additional operator input.

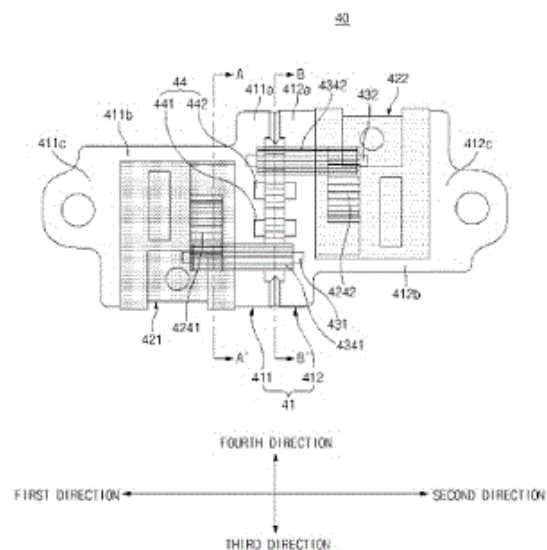


21: 2022/12483. 22: 2022/11/16. 43: 2024/02/05  
51: H04M  
71: SAMSUNG ELECTRONICS CO., LTD.  
72: HWANG, SUNGKYU, KIM, JUNGJIN, KIM, JONGYOON, YOO, CHUNGKEUN, KANG, JONGMIN, LEE, SUMAN  
33: KR 31: 10-2019-0019576 32: 2019-02-19

#### 54: HINGE MODULE AND FOLDABLE ELECTRONIC DEVICE INCLUDING THE SAME

00: -

A hinge module according to one embodiment includes a fixed structure including a central portion, a guide portion having an edge facing an edge of the central portion, and a support portion configured to connect the central portion and the guide portion, wherein an interior space is formed between the central portion and the guide portion, a connecting shaft extending into the interior space through the central portion and including a gear formed on at least a part of an outer circumferential surface of the connecting shaft, and a rotary structure disposed in the interior space, the rotary structure including a circular arc shaped gear having a plurality of gear teeth arranged in a circular arc shape and that are engaged with the gear, wherein the rotary structure rotates about a virtual axis of rotation passing through a center of a circular arc of the circular arc shaped gear.



21: 2022/12510. 22: 2022/11/16. 43: 2024/02/05  
51: A61M  
71: COREQUEST SAGL  
72: ARDUINI, ARDUINO, BONOMINI, MARIO, MASOLA, VALENTINA, GAMBARO, GIOVANNI  
33: EP 31: 20175357.1 32: 2020-05-19  
33: US 31: 63/026,936 32: 2020-05-19  
54: PERITONEAL DIALYSIS SOLUTION  
00: -



The present invention relates to solutions for peritoneal dialysis for use for maintaining or restoring the removal of small solutes and fluids in subjects with end-stage renal disease and/or congestive heart failure. Such solutions comprise carnitine, xylitol and at least one of glucose, glycerol and polydextrin.

21: 2022/12511. 22: 2022/11/16. 43: 2024/02/05  
51: C25B

71: INDUSTRIE DE NORA S.P.A.

72: CALDERARA, ALICE, MORA, STEFANIA

33: IT 31: 102020000015250 32: 2020-06-25

**54: ELECTRODE FOR ELECTROCHEMICAL EVOLUTION OF HYDROGEN**

00: -

The present invention relates to an electrode and in particular to an electrode suitable for use as a cathode for the development of hydrogen in industrial electrolytic processes, equipped with a catalytic coating comprising an external layer containing ruthenium and selenium; and to a method for the production of the same.

21: 2022/12512. 22: 2022/11/16. 43: 2024/02/13  
51: A61K; A61Q

71: UNILEVER GLOBAL IP LIMITED

72: BARFOOT, RICHARD JONATHAN, COOKE, MICHAEL JAMES, MENDOZA FERNANDEZ, CESAR ERNESTO, PRICE, PAUL DAMIEN

33: EP 31: 20181255.9 32: 2020-06-19

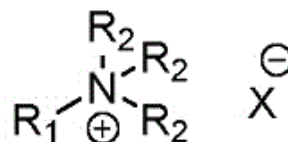
**54: HAIR CONDITIONING COMPOSITION FOR IMPROVED DEPOSITION**

00: -

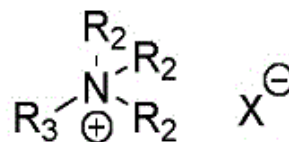
A composition provides superior deposition of benefit agent to hair, said composition comprising: (i) 0.01 to 10 wt % of a linear cationic conditioning primary surfactant; selected from structure 1 and mixtures thereof: Structure 1 wherein: •

R<sub>1</sub> comprises a linear alkyl chain having a carbon-carbon chain length of from C<sub>16</sub> to C<sub>24</sub>, preferably C<sub>18</sub> to C<sub>22</sub>; • R<sub>2</sub> comprises a proton or a linear alkyl chain having a carbon-carbon chain length of from C<sub>1</sub> to C<sub>4</sub>, preferably C<sub>1</sub> to C<sub>2</sub> or a benzyl group; and • X is an organic or inorganic anion; (ii) 0.1 to 10 wt % of a linear fatty material; (iii) a particulate benefit agent selected from conditioning actives and mixtures thereof; (iv) 0.01 to 5 wt %, of a linear cationic co-surfactant, selected from structure 2 and mixtures thereof structure 2 wherein: • R<sub>2</sub> comprises

a proton or a linear alkyl chain having a carbon-carbon chain length of from C<sub>1</sub> to C<sub>4</sub>, preferably C<sub>1</sub> to C<sub>2</sub> or a benzyl group; • R<sub>3</sub> comprises a linear alkyl chain having an atom-atom chain length of from 3 to 15, preferably 10 to 14; and • X is an organic or inorganic anion; wherein the carbon-carbon chain length of R<sub>1</sub> in structure 1 differs from the atom-atom chain length of R<sub>3</sub> in structure 2 by at least 3 atoms, such that the carbon-carbon chain length of R<sub>1</sub> in structure 1 is longer than the atom-atom chain length of R<sub>3</sub> in structure 2; and wherein the molar ratio of linear cationic co-surfactant (iv) to linear cationic conditioning primary surfactant (i) is in the range of from 1:20 to 1:1.



Structure 1



Structure 2

21: 2022/12513. 22: 2022/11/16. 43: 2024/02/06  
51: C22C

71: HAYNES INTERNATIONAL, INC.

72: CROOK, PAUL, KRISHNAMURTHY, RAMANATHAN

33: US 31: 63/022,892 32: 2020-05-11

**54: WROUGHTABLE, CHROMIUM-BEARING, COBALT-BASED ALLOYS WITH IMPROVED RESISTANCE TO GALLING AND CHLORIDE-INDUCED CREVICE ATTACK**

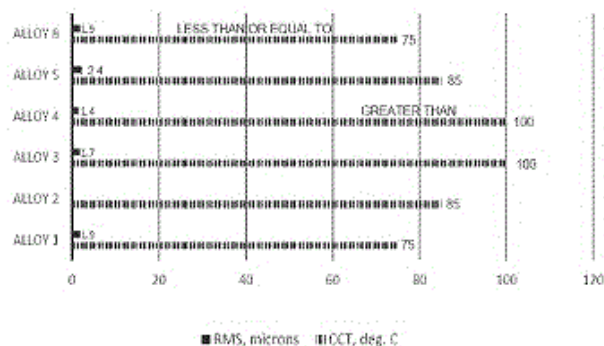
00: -

A chromium-bearing, cobalt-based alloys amenable to wrought processing has improved resistance to both chloride-induced crevice corrosion and galling. The alloy contains up to 3.545 wt.% nickel, 0.242 to 0.298 wt.% nitrogen, and may contain 22.0 to 30.0 wt.% chromium, 3.0 to 10.0 wt.% molybdenum, up to

5.0 wt.% tungsten, up to 7 wt.% iron, 0.5 to 2.0 wt.% manganese, 0.5 to 2.0 wt.% silicon, 0.02 to 0.11 wt.% carbon, 0.005 to 0.205 wt.% aluminum, and the balance is cobalt plus impurities.

#### GALLING & CREVICE CORROSION RESULTS

FOR RMS, LOWER IS BETTER / ASM F52, HIGHER IS BETTER

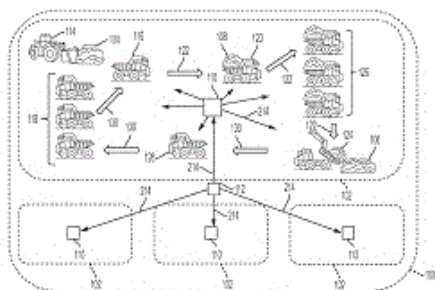


21: 2022/12523. 22: 2022/11/16. 43: 2024/02/05  
51: G06Q; B60P  
71: CATERPILLAR INC.  
72: BROCKHURST, RUSSELL A, GATES, KEVIN E  
33: US 31: 16/855,220 32: 2020-04-22

#### 54: SYSTEM AND METHOD FOR MULTI-PHASE OPTIMIZATION OF HAUL TRUCK DISPATCH

00: -

A system and method for dispatching haul trucks (108) includes a production planner (202) configured to operate based on a production plan (204). The production planner (202) computationally defines production arcs (122) for transferring material from loading tools to dump sites (104), computationally develops one or more possible return arcs (130) for each production arc (122), compiles a set of possible return arcs (130), and computationally selects a subset of the possible return arcs (130) to command a real time dispatcher (212).



21: 2022/12551. 22: 2022/11/17. 43: 2024/02/13

51: B01J

71: LINDE GMBH, BASF SE

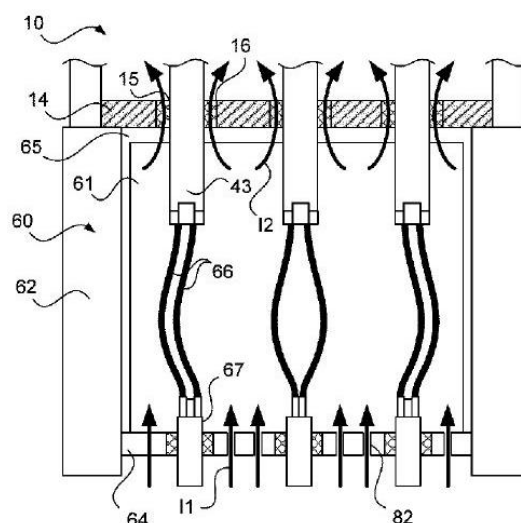
72: HOFSTÄTTER, Martin, ZELHUBER, Mathieu, REISER, Peter, KIESE, Georg, ZIEGLER, Christian, STEGEMANN, Robert, AENGENHEISTER, Jens, FEIGL, Jürgen, WELLENHOFER, Anton, DELHOMME-NEUDECKER, Clara, SHUSTOV, Andrey, JENNE, Eric, KOCHENDÖRFER, Kiara Aenne, LAIB, Heinrich, KÜHN, Heinz-Jürgen, JACOB, Reiner

33: EP 31: 20171182.7 32: 2020-04-23

#### 54: REACTOR AND METHOD FOR CARRYING OUT A CHEMICAL REACTION

00: -

A reactor for carrying out a chemical reaction has a reactor container and one or more reaction tubes. One or more current feed elements are guided into the container to electrically heat the reaction tube(s), each of which having a rod-shaped section, the rod-shaped section(s) running through a wall of the container at a wall passage. A connection chamber, into which the rod-shaped sections protrude, is arranged outside of the container and adjacently to the reactor container wall through which the rod-shaped sections run at the wall passages. Gas feed means are provided to supply the connection chamber with an inerting gas, and the wall passages together with the rod-shaped sections received therein in a longitudinally movable manner are gas-permeable so that at least a part of the inerting gas fed into the connection chamber flows into the reactor container. The invention likewise relates to a method.



21: 2022/12557. 22: 2022/11/17. 43: 2024/02/05

51: H04L; H04W

71: SAMSUNG ELECTRONICS CO., LTD.

72: SUBRAMANIAM, KARTHIKEYAN, GAUTAM,  
DEEPANSHU, NARAYANAN, KARTHIKEYAN,  
KUMAR, NAVEEN

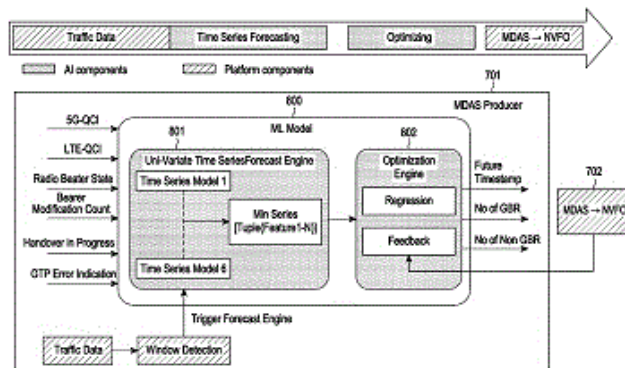
33: IN 31: 202041020288 32: 2021-03-12

33: IN 31: 202041020288 32: 2020-05-14

**54: METHOD AND APPARATUS FOR  
UPGRADING RADIO ACCESS NETWORK IN A  
COMMUNICATION SYSTEM**

00: -

The present disclosure relates to a pre-5th-Generation (5G) or 5G communication system to be provided for supporting higher data rates Beyond 4th-Generation (4G) communication system such as Long Term Evolution (LTE). Methods and systems for upgrading the software of a 5G virtual RAN using MDAS. The software of virtual network elements of the 5G RAN is upgraded at an optimal timestamp, which is predicted based on analysis of parameters pertaining to traffic conditions of the virtual network elements. A BIAR is generated, which includes the optimal timestamp and parameters, which allow determining the suitability of triggering software upgrade at the predicted timestamp. The BIAR is provided to a NFVO of a MANO, wherein the MANO triggers the software upgrade at the predicted timestamp after determining that the predicted timestamp is suitable. The virtual network elements retain contextual information pertaining to bearers connecting the virtual network elements with UEs. The bearers are retained for a predefined time period. The bearers are verified by the network elements after the software upgrade is successful.



21: 2022/12562. 22: 2022/11/17. 43: 2024/02/05

51: A61F

71: DAVOL INC.

72: FELIX, AUGUSTUS, D'AMBRUOSO, TALIA,

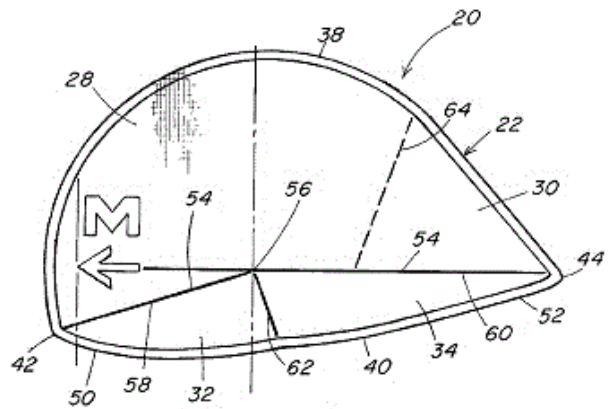
SPINNEY, CUIXIANG QU, CUDMORE, KOREL

33: US 31: 16/907,100 32: 2020-06-19

**54: IMPLANTABLE PROSTHESIS**

00: -

An implantable prosthesis for repairing a defect in a muscle or tissue wall. The prosthesis comprises a body of biologically compatible prosthetic material having a preformed three-dimensional contoured shape that independently assumes a three-dimensional curved shape configured to conform to the muscle or tissue wall. The body may be formed of a mesh fabric employing a knit construction. The body may be configured with one or more mechanical characteristics, individually or in any combination, having defined properties which may enhance the ability of the prosthesis to be handled in a surgical, robotic environment while meeting the performance and physical characteristics for soft tissue repair and reconstruction. One or more visual indicia may be provided to facilitate positioning and/or placement of the prosthesis at the muscle or tissue wall.



21: 2022/12567. 22: 2022/11/17. 43: 2024/02/07

51: B60P; B60R

71: CATERPILLAR INC.

72: ARUL, SAMUEL J. W.

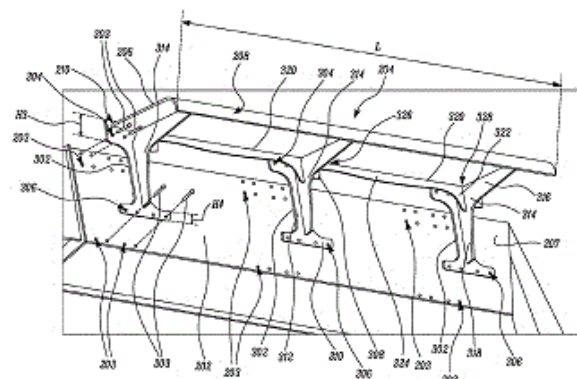
33: US 31: 16/856,516 32: 2020-04-23

**54: GUARD ASSEMBLY**

00: -

A guard assembly (204, 205, 704) for a canopy (110, 710) of a machine (100) includes a roof portion (206, 502, 706) defining a first end (208), a second end (210), and a first length (L). The guard assembly (204, 205, 704) includes at least two bracket members (302, 504, 708) fixedly coupled to the roof

portion (206, 502, 706). The at least two bracket members (302, 504, 708) define a plurality of first through-holes (304, 702) and a plurality of second through-holes (306, 704). Each of the plurality of first and second through-holes (304, 702, 306, 704) aligns with a corresponding aperture (203) of the plurality of apertures (203) in the frame member (202, 702) to receive a mechanical fastener (303, 703) therethrough. The guard assembly (204, 205, 704) also includes at least two first support structures (314, 506, 713) spaced apart along a first length (L) defined by the roof portion (206, 502, 706). The guard assembly (204, 205, 704) further includes at least one second support structure (320, 508) extending along the first length (L) defined by the roof portion (206, 502, 706).



21: 2022/12643. 22: 2022/11/21. 43: 2024/02/05  
51: E02F

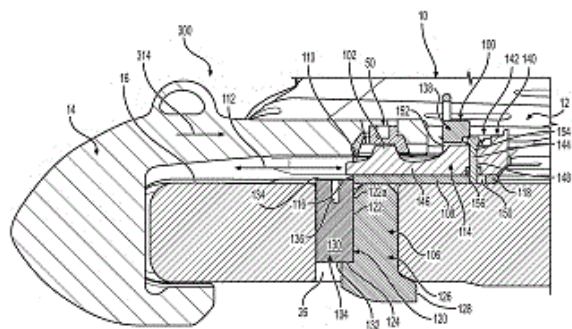
71: CATERPILLAR INC.

72: KUNZ, PHILLIP J, CAMPOMANES, PATRICK S  
33: US 31: 16/857,511 32: 2020-04-24

**54: ATTACHMENT ASSEMBLY FOR ATTACHING A WEAR MEMBER TO A WORK IMPLEMENT AND LUG MEMBER FOR USE WITH AN ATTACHMENT SYSTEM FOR ATTACHING WEAR MEMBERS TO A WORK IMPLEMENT USING A SPACER**

00: -

A lug member (106) includes a slide platform (108) defining a slide groove (110) that further defines a sliding direction (112), a first end (116) that is disposed along the sliding direction (112), and a second end (118) that is disposed along the sliding direction (112). A spacer engaging projection (120) extends downwardly from the slide platform (108).



21: 2022/12650. 22: 2022/11/21. 43: 2024/02/07  
51: A61K; A61P

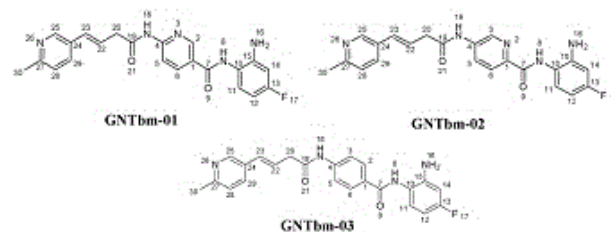
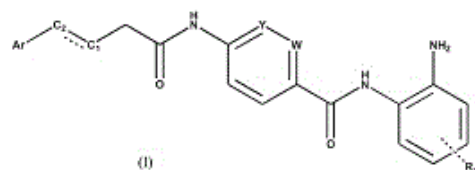
71: GREAT NOVEL THERAPEUTICS BIOTECH & MEDICALS CORPORATION

72: CHEN, JIA-SHIONG, YANG, MU-HSUAN, WU, YI-HONG, CHU, SZ-HAO, CHOU, CHENG-HAN, CHAO, YE-SU, CHEN, CHIA-NAN  
33: US 31: 63/018,427 32: 2020-04-30

**54: HISTONE DEACETYLASE INHIBITORS FOR IMMUNOMODULATION IN TUMOR MICROENVIRONMENT**

00: -

Provided are compounds class I HDAC inhibitors, their production and applications. The compounds possess epigenetic immunomodulatory activities in the tumor microenvironment (TME) and thus inhibit growth of tumor cells.



21: 2022/12651. 22: 2022/11/21. 43: 2024/02/07  
51: A01G; G05B; G06Q

71: HEARTLAND AG TECH, INC.

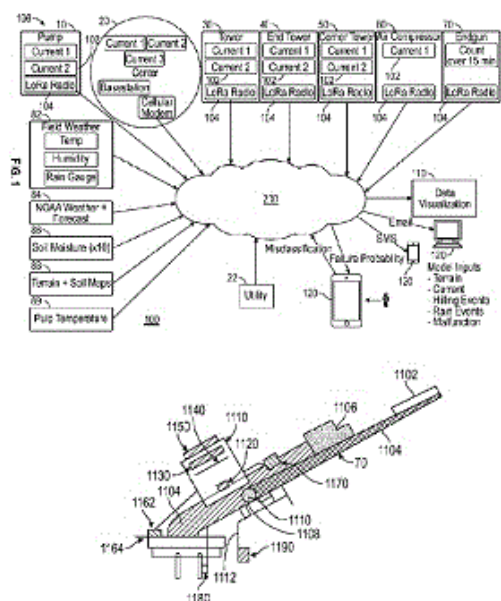
72: SANDERS, RUSSELL, PAVELSKI, JEREMIE  
33: US 31: 63/024,721 32: 2020-05-14

**54: PREDICTIVE MAINTENANCE SYSTEMS AND METHODS TO DETERMINE END GUN HEALTH**

00: -



A system predicts needed maintenance for a farming irrigation system that includes a pivot and a movable end gun mounted on the pivot. The predictive maintenance system includes a controller and one or more sensors configured to couple to the movable end gun and configured to electrically communicate with the controller. The one or more sensors are configured to generate an electrical signal indicative of movement and/or positioning of the movable end gun relative to the pivot over time. The controller is configured to receive the electrical signal and determine whether the movable end gun, or one or more components thereof, requires maintenance based on the electrical signal.



21: 2022/12653. 22: 2022/11/21. 43: 2024/02/07  
51: C10L; C21B  
71: BERNEGGER GMBH, KÜTTNER HOLDING GMBH & CO. KG  
72: BERNEGGER, KURT, HANUSCH, BERNHARD, BEHRMANN, DIRK, SALEHI, FARZAD, BREUER, THOMAS

33: DE 31: 10 2020 206 095.9 32: 2020-05-14

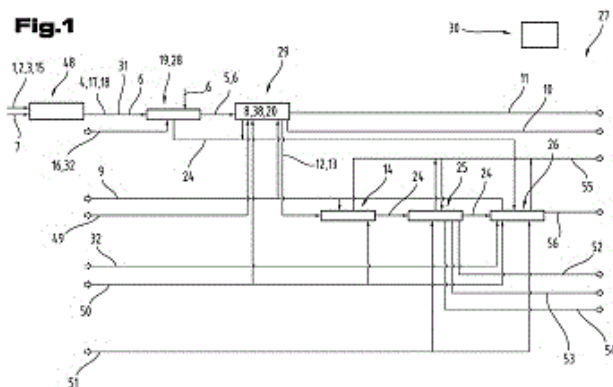
#### 54: METHOD AND INDUSTRIAL PLANT FOR SEPARATING A WASTE MATERIAL

00: -

The invention relates to a method and an industrial plant for separating a waste material (1) comprising at least one metal (2) and at least one organic material (3). A separation fraction (4) of the waste material (1) is provided, said separation fraction being separated from the waste material (1) during

mechanical preparation. The separation fraction (4) comprises briquets (5) made from the waste material (1) and optionally a coarse fraction (6) of the waste material (1) or of a further waste material (7). The separation fraction (4) has a calorific value of 5 MJ/kg to 30 MJ/kg and a maximum copper content of 0.1 wt% to 20 wt%. A reactor (8) is charged continuously or batchwise with the separation fraction (4), and the separation fraction (4) is combusted. In addition, the separation fraction (4) is melted into at least one liquid slag phase (10) and into a liquid metal-containing phase (11). At least one portion (12) of an incompletely combusted flue gas (13) is conducted out of the reactor (8) and into a thermal post-combustion plant (14), where a portion (12) is post-combusted.

Fig. 1



21: 2022/12654. 22: 2022/11/21. 43: 2024/02/07  
51: C10L

71: BERNEGGER GMBH, KÜTTNER HOLDING GMBH & CO. KG

72: BERNEGGER, KURT, HANUSCH, BERNHARD, BEHRMANN, DIRK, SALEHI, FARZAD, BREUER, THOMAS

33: DE 31: 10 2020 206 095.9 32: 2020-05-14

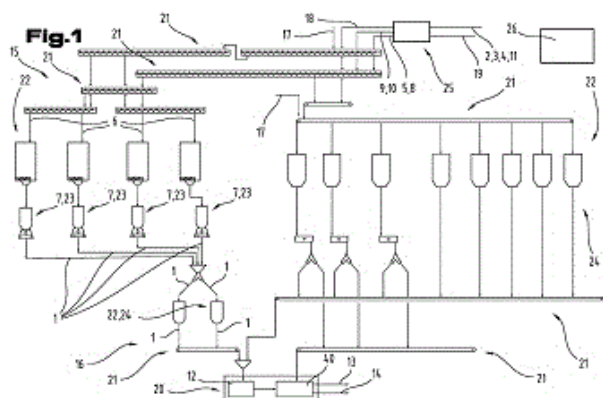
#### 54: PROCESS FOR PRODUCING BRIQUETTES FROM A WASTE MATERIAL AND BRIQUETTE MADE OF A WASTE MATERIAL

00: -

The invention relates to a process for producing briquettes (1), to a briquette (1) made of a waste material (2) and to the use of a briquette (1) in the process according to the invention. The process provides for providing a waste material (2) comprising at least one metal (3) and at least one organic material (4). It comprises performing a single- or multistage mechanical workup of the waste material (2) and a separation of at least one



first fraction (5) from the waste material (2). A briquette mixture (6) containing the at least one first fraction (5) is produced, wherein the at least one first fraction (5) has a heating value of 0 MJ/kg to 30 MJ/kg. A heating value of the briquette mixture (6) is adjusted by varying at least the first fraction (5). The briquette mixture (6) is introduced into a briquetting apparatus (7) and pressed into briquettes (1) therein. This affords briquettes (1) having a heating value of 5 MJ/kg to 30 MJ/kg and having a maximum copper proportion of 0.1% by weight to 20% by weight.



21: 2022/12660. 22: 2022/11/21. 43: 2024/02/08  
51: A21D; A23L; A23P

71: ALZARRO DÖNERWORLD GMBH

72: DEMIRKÜREK, MUSTAFA

33: DE 31: 20 2020 102 778.6 32: 2020-05-15

#### **54: EDIBLE FOOD CASING**

00: -

The invention relates to an edible food casing based on leavened dough, consisting of two pieces of dough rolled out into a circular shape, a first piece of dough forming a rest for certain foodstuffs, and the second piece of dough being arranged over the deposited amount, a closure being produced between the first and second pieces of dough via the edge region, and the pieces of dough being subjected to a baking temperature treatment to harden the casing and the closure.

21: 2022/12664. 22: 2022/11/21. 43: 2024/02/08  
51: E02F

71: CATERPILLAR INC.

72: BJERKE, NATHAN R, CONGDON, THOMAS M

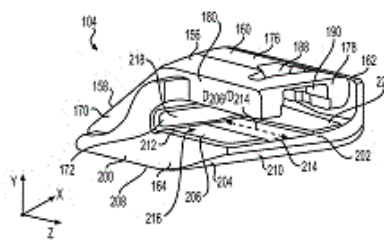
33: US 31: 17/212,015 32: 2021-03-25

33: US 31: 63/015,928 32: 2020-04-27

#### **54: CORNER SEGMENT AND CORNER SHROUD FOR A WORK IMPLEMENT**

00: -

A corner shroud includes a body (156) that has a floor portion (164) having a floor rear surface (202), a floor inner surface (200), a floor lower surface (204), and a floor upper surface (206) having a curved portion (214), a side portion (162), extending from the floor portion (164), and having a side outer surface (192), a side rear surface (198), a side inner surface (196), and a side upper surface (194), a front portion (158) extending between the floor portion (164) and the side portion (162), the front portion (158) having a front surface (166), a front inner surface (170), and a front rear surface (172), and a top portion (160) extending from the front portion (158), the top portion (160) having a top upper surface (176), a top inner surface, a top lower surface (184), a top rear surface (178), and a top outer surface (182). The floor upper surface (206), the side inner surface (196), the front rear surface (202), the top lower surface (184), and the top inner surface (180) define a recess (216).



21: 2022/12665. 22: 2022/11/21. 43: 2024/02/08  
51: B01D; F02M

71: CATERPILLAR INC.

72: IMMEL, JON T, OEDEWALDT, STEPHEN E, RIES, JEFFREY R, POTTS, GREGORY O, CLINE, JAY H, EVERY, JOSEPH J, MOREHOUSE III, DARRELL L

33: US 31: 16/859,137 32: 2020-04-27

#### **54: FILTER ELEMENT INTEGRATED SEAL PROFILE**

00: -

An integrated seal member (300) includes an at least partially annular body (326) defining a longitudinal axis (328), a radial direction (330), and a circumferential direction (332). The at least partially annular body (326) may include a mounting portion (324a), a sealing portion (302) including at least one top sealing feature (334) and at least one bottom

sealing feature (336), and an apertured connecting portion (318) that extends radially outwardly from the mounting portion (324a) to the sealing portion (302).

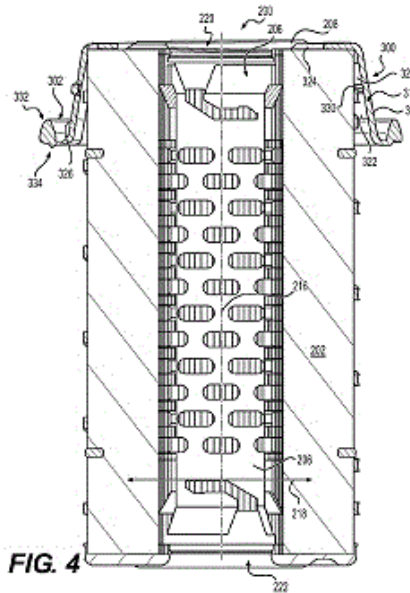


FIG. 4

21: 2022/12704. 22: 2022/11/22. 43: 2024/02/07  
51: H04N

71: BYTEDANCE INC.

72: WANG, YE-KUI

33: US 31: 63/029,308 32: 2020-05-22

**54: SCALABLE NESTED SEI MESSAGE HANDLING IN VIDEO SUB-BITSTREAM EXTRACTION PROCESS**

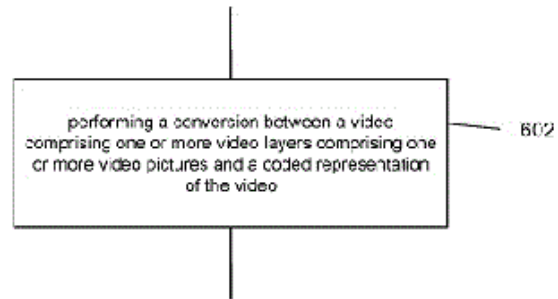
00: -

Examples of video encoding methods and apparatus and video decoding methods and apparatus are described. An example method of video processing includes performing a conversion between a video including one or more layers and a bitstream of the video according to a rule, wherein the rule specifies, in a process of sub-bitstream extraction, a non-scalable nested supplementary enhancement information (SEI) message is generated by extracting an SEI message that is scalably-nested from a scalable nesting SEI message based on a first flag indicating whether the SEI message applies to specific output layer sets (OLSSs) and a second flag indicating whether the SEI message applies to all subpictures or only to specific subpictures.

600



FIG. 3



21: 2022/12707. 22: 2022/11/22. 43: 2024/02/07

51: C12N; A01H

71: HAINAN BOLIAN TECHNOLOGY CO., LTD.

72: AN, BAOGUANG, LONG, TUAN, LI, XINPENG, ZENG, XIANG, WU, YONGZHONG, HUANG, PEIJIN

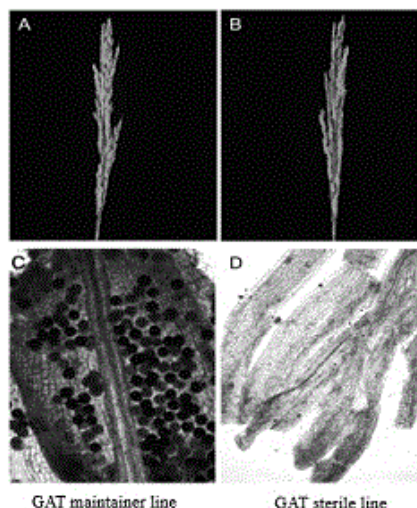
33: CN 31: 202010379287.9 32: 2020-05-07

**54: INTELLIGENT GENETIC BREEDING AND SEED PRODUCTION SYSTEM FOR CROP CROSS BREEDING AND HYBRID SEED PRODUCTION, AND APPLICATION THEREOF**

00: -

An intelligent genetic breeding and seed production system for crop cross breeding and hybrid seed production, and an application thereof. The system comprises a GAT system carrier. The carrier comprises five functional element expression cassettes: a plant male fertility restoration genetic element expression cassette, used for restoring the male fertility of a recessive genic male sterile mutant; a plant pollen abortion genetic element expression cassette, used for clearing GAT containing pollen and maintaining a heterozygous state or a hemizygous state of a GAT maintainer line; a chemical herbicide positive selection expression cassette, used for gene transformation and impurity removal and purification for the GAT maintainer line; a chemical herbicide negative selection expression cassette, used for clearing pollen and seed escape of a herbicide-sensitive GAT maintainer line and impurity removal and purification for a GAT sterile line; and a seed screening element expression cassette, used for mechanical sorting of seeds. The system can be used for cross breeding and hybrid seed production of plate recessive genic male sterile materials, thereby obtaining new varieties of plants

having high quality, high yield, wide adaptability and high resistance, and seeds thereof.



21: 2022/12708. 22: 2022/11/22. 43: 2024/02/07

51: A61K; A61Q

71: UNILEVER GLOBAL IP LIMITED

72: WANG, LIN, XU, BO, YI, SHANGCHUN

33: CN 31: PCT/CN2020/097189 32: 2020-06-19

33: EP 31: 20189734.5 32: 2020-08-06

**54: A PERSONAL CARE COMPOSITION BASED ON TITANIUM OXIDE AND A CROSSPOLYMER OF ADIPIIC ACID AND NEOPENTYL GLYCOL**

00: -

The present invention relates to a personal care composition. In particular, the present invention relates to a personal care composition for blurring benefits. Accordingly, the present invention discloses a personal care composition comprising: a) titanium di-oxide; and b) 8 to 60% by weight of a cross-polymer comprising adipic acid and neopentyl glycol.

21: 2022/12709. 22: 2022/11/22. 43: 2024/02/07

51: E04B; E04C

71: PHYLEM STRUCTURES S.L.

72: PÉREZ ROMERO, MANUEL, TARAZONA

LIZARRAGA, JAIME

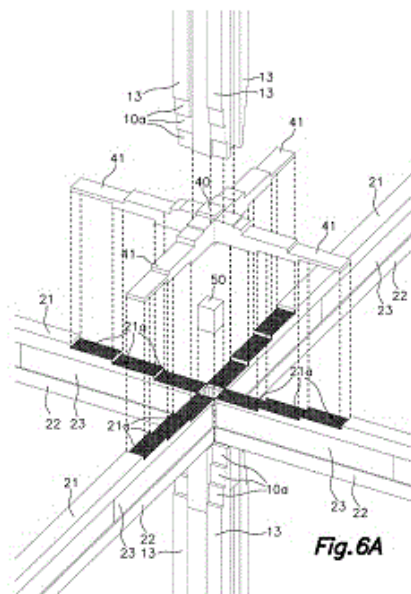
33: EP 31: 20382489.1 32: 2020-06-05

**54: ENGINEERED WOOD STRUCTURAL SYSTEM**

00: -

An engineered wood structural system including multiple vertical structural elements (10) including first seats (11) comprised between parallel vertical

struts (12) made of successive aligned vertical strut segments (13) connected to each other, multiple horizontal structural elements (20, 120), supported on said first seats (11), each including an upper horizontal board (21) and a lower horizontal board (22) with at least one second spacer (23) placed in between, and optionally slab members (30) supported on said horizontal structural elements (20, 120) defining at least one structure floor (1).



21: 2022/12712. 22: 2022/11/22. 43: 2024/02/07

51: E01F

71: VALTIR, LLC

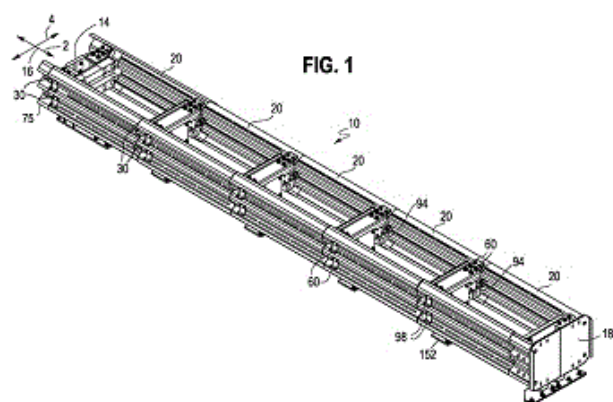
72: THOMPSON, SEAN, LEONHARDT, PATRICK

33: US 31: 63/035,414 32: 2020-06-05

**54: CRASH CUSHION**

00: -

A crash cushion includes overlapping first and second rail sections coupled with a fastener. The first rail section is moveable relative to the second rail section from a pre-impact position to an impact position in response to an axial impact to the guardrail assembly. The first rail section includes an elongated slot aligned with the fastener and having a first length. A support post is releasably connected to the first rail section and is rotatable to a laid over position after the first rail section has moved a first travel distance, wherein the first length is greater than or equal to the first travel distance.



21: 2022/12714. 22: 2022/11/22. 43: 2024/02/07  
51: B08B; B05C

71: DÜRR SYSTEMS AG

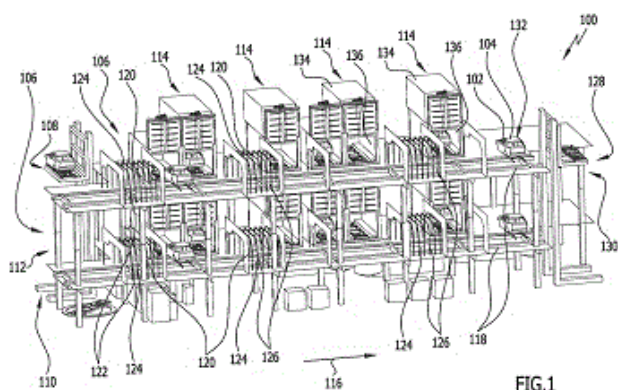
72: JÄGER, TOBIAS, LAUER, MICHAEL,  
DOWNAR, MAREK, HEINSOHN, KLAUS,  
SEYBOTH, OLIVER

33: DE 31: 10 2020 208 248.0 32: 2020-07-01

**54: TREATMENT STATION, TREATMENT UNIT  
AND METHOD FOR TREATING WORKPIECES**

00: -

In order to provide a device and a method for treating workpieces (102), which allow optimum treatment of the workpieces, a treatment station (114) comprises (136) a treatment chamber that can be flooded for the purpose of treating the workpiece.



21: 2022/12755. 22: 2022/11/23. 43: 2024/02/07  
51: E02D; C09K

71: ROYAL EIJKELKAMP B.V.

72: EIJKELKAMP, HUGO JAAP

**54: METHOD FOR PROVIDING AN  
UNDERGROUND BARRIER FOR A WATER  
RESERVOIR**

00: -

The invention relates to a method for providing an underground barrier for a water flow, which method comprises the steps of: - drilling in soil a number of parallel vertical holes; - inserting pipe strings into the drilled holes, wherein each pipe string has a pipe string wall with a plurality of openings arranged distributed along the length of the pipe string; - introducing injector means in each of the pipe strings; - positioning the injector means at a plurality of discrete depths in the respective pipe string and aligned at each depth with at least one of the openings in the pipe string wall; - injecting at each discrete depth a sealing compound, such as sodium silicate, through the at least one aligned opening into the soil.

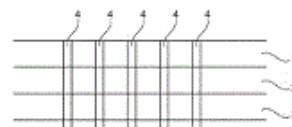


Fig. 1A

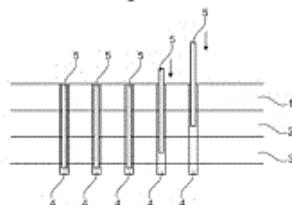


Fig. 1B

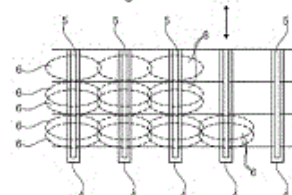


Fig. 1C

21: 2022/12757. 22: 2022/11/23. 43: 2024/02/07  
51: C09J; B32B

71: UNILEVER GLOBAL IP LIMITED

72: MURALIDHARAN, GIRISH, PATHAK, GAURAV,  
RAMACHANDRAN, RAJEESH KUMAR

33: EP 31: 20182876.1 32: 2020-06-29

**54: A CONTAINER**

00: -

The present invention relates to a container comprising a film substrate, wherein the film substrate comprises graphene or derivative thereof and an adhesive. It further describes method for preparing the container comprising steps of preparing a suspension of graphene or derivative thereof in solvent, providing an adhesive layer,



coating the adhesive layer with the suspension, and allowing the solvent to evaporate.

Fig. 2a

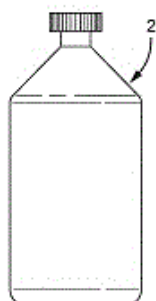
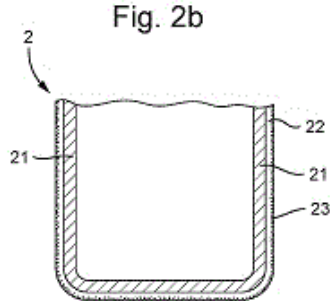


Fig. 2b



21: 2022/12773. 22: 2022/11/23. 43: 2024/03/06

51: A61K; C07K; C12N; A61P

71: IMCYSE SA

72: SAINT-REMY, Jean-Marie, VANDER ELST, Luc, CARLIER, Vincent, ERAK, Milos, VAN RAMPELBERGH, Jean, VAN MECHELEN, Marcelle, WALGRAFFE, David, GLOIRE, Geoffrey

33: EP 31: 20173201.3 32: 2020-05-06

#### **54: PEPTIDES AND METHODS FOR THE TREATMENT OF MULTIPLE SCLEROSIS**

00: -

The invention relates to immunogenic peptides derived from Myelin Oligodendrocyte Glycoprotein (MOG) for use in the treatment of demyelinating disorders and to the generation of cytolytic CD4+ T cells or NKT cells against antigen presenting cells that present the wild-type MOG epitope sequence.

21: 2022/12799. 22: 2022/11/24. 43: 2024/02/07

51: A61K; A61Q; A41G

71: UNILEVER GLOBAL IP LIMITED

72: FLYNN, JOANNA, HAWKINS, GEOFFREY ROBERT VICTOR

33: EP 31: 20181327.6 32: 2020-06-22

#### **54: BIODEGRADABLE ADHESIVE COMPOSITION**

00: -

An adhesive composition comprises about 2.5 to about 12% by weight of a biodegradable polymer; about 0.5 to about 1.5% by weight of a preservative; and at least 10% by weight of water.

21: 2022/12800. 22: 2022/11/24. 43: 2024/02/08

51: C07D; C07C; A61P; A61K

71: CIPLA LIMITED

72: PATHI, SRINIVAS LAXMINARAYAN, RAVI KUMAR, PUPPALA, CHENNURU, RAMANAIAH, YARRA, DURGA SURYA NARAYANA, JAGANNADHAM, YELLANKI, NANGEDDA, SIVA KRISHNA, PULLAREDDY, LAKKIREDDY, BARLA, RAJU

33: IN 31: 202021022647 32: 2020-05-29

33: IN 31: 202021050037 32: 2020-11-17

33: IN 31: 202021038947 32: 2020-09-09

#### **54: METHODS FOR THE PREPARATION OF SPHINGOSINE 1-PHOSPHATE RECEPTOR MODULATORS AND SOLID FORMS THEREOF**

00: -

The present invention relates to process for preparation of 1-(4-{1-[(E)-4-cyclohexyl-3-trifluoromethyl-benzyloxy imino]ethyl}-2-ethyl-benzyl)-azetidine-3-carboxylic acid, intermediates, salts and solid forms thereof to pharmaceutical compositions comprising the salts and solid forms and to use of said compositions for the treatment of multiple sclerosis, particularly secondary progressive multiple sclerosis.

21: 2022/12850. 22: 2022/11/25. 43: 2024/03/25

51: E04H

71: iKAMPER CO., LTD.

72: PARK, Soon, Gyu, HA, Seung, Suk, SHIN, Wan, Cheol

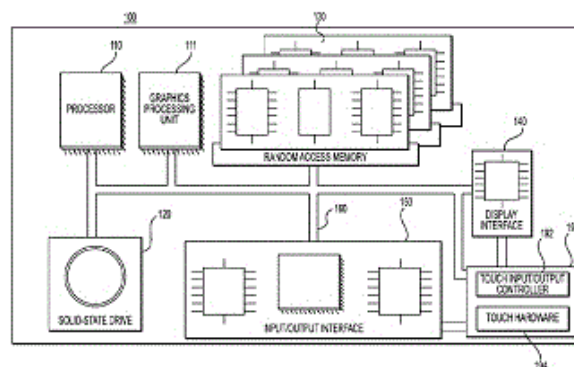
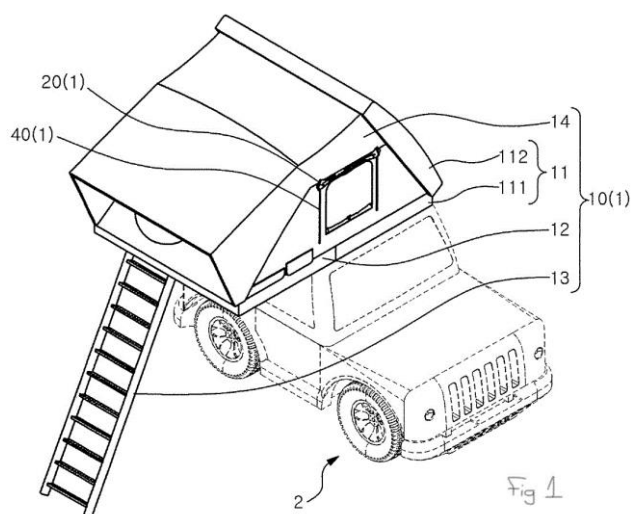
33: KR 31: 10-2021-0141468 32: 2021-10-22

#### **54: ROOFTOP TENT**

00: -

The present disclosure relates to a rooftop tent. A rooftop tent according to an embodiment of the present disclosure includes a rooftop tent main body including a tent member configured to be folded on a roof of a vehicle and stand when being unfolded toward a lateral side of the vehicle, a rotary canopy rotatably connected to the tent member, and a controller connected to the tent member and the rotary canopy and configured to fold the rotary canopy upward so that portions of the rotary canopy overlap one another.





21: 2022/12854. 22: 2022/11/25. 43: 2024/02/08  
51: A61B; G06N

71: DIAMENTIS INC.

72: HARITON, CLAUDE

33: US 31: 17/212,410 32: 2021-03-25

33: CA 31: PCT/CA2021/050390 32: 2021-03-25

33: US 31: 63/038,257 32: 2020-06-12

33: US 31: 63/149,508 32: 2021-02-15

#### **54: SYSTEMS AND METHODS FOR COLLECTING RETINAL SIGNAL DATA AND REMOVING ARTIFACTS**

00: -

There is disclosed a method and system for generating retinal signal data. Calibration data corresponding to an individual may be received. A threshold impedance may be determined based on the calibration data. Retinal signal data corresponding to the individual may be received. The impedance of the circuit collecting the retinal signal data may be compared to the threshold impedance to determine whether the retinal signal data contains any artifacts. A portion of the retinal signal data corresponding to the artifacts may be removed from the retinal signal data.

21: 2022/12855. 22: 2022/11/25. 43: 2024/02/07

51: A61K; A61P

71: FIREBRICK PHARMA LIMITED

72: MOLLOY, PETER, TUCKER, SIMON,  
GOODALL, STEPHEN

33: AU 31: 2020901910 32: 2020-06-10

#### **54: IMPROVED VIRUCIDAL FORMULATIONS**

00: -

The present invention is directed to PVP-I formulations having enhanced virucidal activity. The formulations are intended for topical administration for treatment and/or decreased risk of microbial infections in subjects. The formulations include PVP-I and other ingredients selected to enhance the virucidal activity of the formulation over PVP-I alone.

21: 2022/12858. 22: 2022/11/25. 43: 2024/02/08

51: B66B; H02G; F16H; B66D

71: SHERMAN + REILLY, INC.

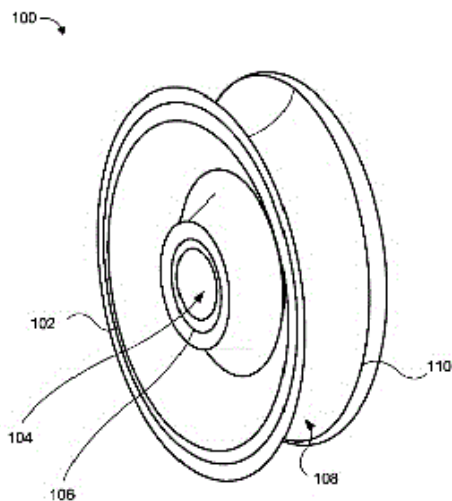
72: MACDONALD, DOUGLAS BRUCE, HOLLIS,  
HARBY CARTER, MORTON, JOHN JEREMIAH

33: US 31: 63/028,410 32: 2020-05-21

#### **54: ADDITIVE-COATED SHEAVE, METHOD OF MANUFACTURING THE SAME, AND METHODS OF REDUCING SOUND PRODUCED BY EQUIPMENT**

00: -

An additive-coated sheave assembly having a wheel with a groove in an outer circumferential surface of the wheel. The additive-coated sheave assembly can have an axle configured to support the wheel and a frame configured to receive and support the axle. A coating can be affixed to the groove by an additive manufacturing process. A method of manufacturing a sheave by coating the groove with a coating by an additive manufacturing process is also disclosed.



21: 2022/12862. 22: 2022/11/25. 43: 2024/02/08  
51: C07C

71: IPSOMEDIC

72: LECOMTE-NORRANT, EDITH, MEMBRAT, ROMAIN

33: FR 31: FR2004184 32: 2020-04-27

33: FR 31: FR2012032 32: 2020-11-23

**54: METHOD FOR THE CONTINUOUS SYNTHESIS OF PARACETAMOL**

00: -

The present invention relates to a method for preparing paracetamol continuously, comprising a nitration step or a nitrosation step so as to obtain p-nitrophenol or p-nitrosophenol, respectively. The p-nitrophenol or p-nitrosophenol can then be converted to paracetamol by hydrogenation, followed by acylation. The method according to the present invention makes it possible to obtain paracetamol with very good regioselectivity and excellent yields.

21: 2022/12908. 22: 2022/11/28. 43: 2024/02/08  
51: A61K; A61Q

71: UNILEVER GLOBAL IP LIMITED

72: DASGUPTA, ANINDYA, GENCARELLI, SUZANNE LYNN, KRISIAK, JESSICA ANN, SAJI, MAYA TREESA, SALGAONKAR, NEHA, SUBRAMANIAN, VIVEK, YOKUBINAS, LEONORA H

33: EP 31: 20198202.2 32: 2020-09-24

33: IN 31: 202021027813 32: 2020-06-30

**54: SANITIZING COMPOSITION**

00: -

The invention is directed to a sanitizing composition that comprises at least 80% by weight water, and a cationic surfactant. The composition provides superior antimicrobial benefits while simultaneously delivering excellent antiviral activity after being topically applied and even when formulated with little to no ethanol.

21: 2022/12914. 22: 2022/11/28. 43: 2024/02/08

51: C11D

71: UNILEVER GLOBAL IP LIMITED

72: HOSKING, SARAH LOUISE, LANG, DIETMAR ANDREAS, THOMPSON, MARK LAWRENCE, TUCKER, IAN MALCOLM

33: EP 31: 20178738.9 32: 2020-06-08

**54: METHOD OF IMPROVING PROTEASE ACTIVITY**

00: -

The invention provides a method of improving protease activity in a detergent composition, said method involving incorporation of from 0.1 to 40 wt.% of a saponin into said composition, wherein the detergent composition comprises from 0.0005 to 2.5 wt.% of a protease enzyme; wherein the saponin has a triterpenoid backbone, and one or more sugar moieties attached to the triterpenoid backbone; and to the use of saponin to improve protease activity in a detergent composition.

21: 2022/12978. 22: 2022/11/29. 43: 2024/02/08

51: H02G

71: SHERMAN + REILLY, INC.

72: HOLLIS, HARBY CARTER, MORTON, JOHN JEREMIAH, MACDONALD, DOUGLAS BRUCE, TRAN, TONI CORINNE

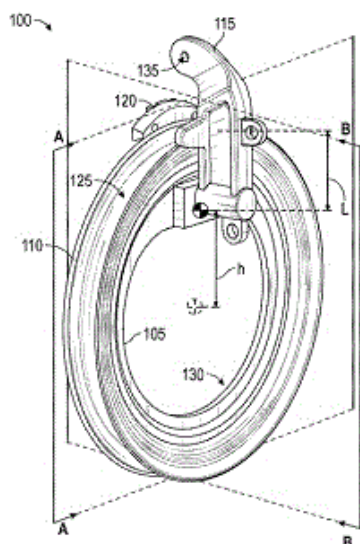
33: US 31: 63/043,881 32: 2020-06-25

**54: HUBLESS SHEAVE**

00: -

A hubless sheave system for supporting ropes, wires, and other suspended loads is described. The system can include an inner bearing race and an outer bearing race. The inner bearing race can be affixed to one or more support arms via a mounting bracket. The support arms can be detachably coupled to a support (e.g., a power pole, building, or other structure) to support the system and the suspended load. The outer race can be rotatably coupled to the inner race on a bearing surface, enabling the outer race to rotate freely about the inner race. The outer race can include a sheave

groove sized and shaped to support a wire or rope during installation. The system can be used to string and temporarily support power or communications lines during installation, or "stringing," and then removed when permanent supports are installed.



21: 2022/12979. 22: 2022/11/29. 43: 2024/02/07

51: B01D; C01B

71: PRAYON

72: SONVEAUX, MARC, HUEBER, DAMIEN

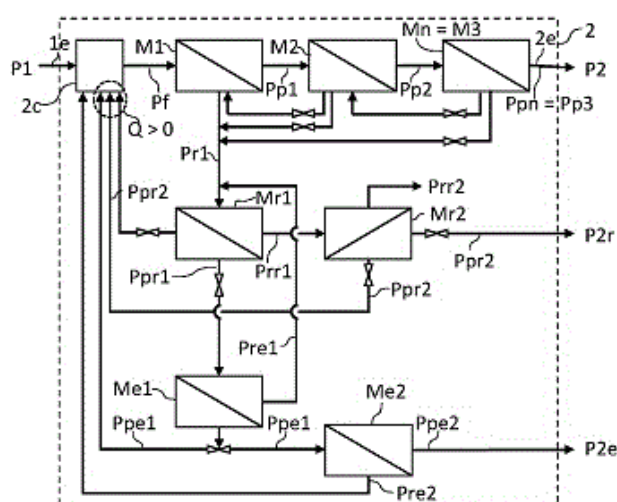
33: EP 31: 20180333.5 32: 2020-06-16

**54: PROCESS FOR PURIFYING A PHOSPHATE CONTAINING ACIDIC SOLUTION COMPRISING IMPURITIES AND APPARATUS FOR APPLYING SAME**

00: -

The present invention concerns a process and an apparatus for purifying a phosphate containing acidic solution comprising impurities through a nanofiltration station comprising a number of nanofiltration membrane units, each comprising a retentate side and a permeate side separated by a membrane, the process comprising feeding the phosphate containing acidic solution through an entry line to a first membrane unit of  $n \geq 1$  membrane units arranged in series, wherein a  $n^{\text{th}}$  permeate flowing out of the  $n^{\text{th}}$  membrane unit forms a nanofiltered phosphate solution. The gist of the present invention is the provision of at least one permeate recirculation loop, branching off the retentate side of the first membrane unit and closing the loop at the entry line to combine at least one of

three permeates with the phosphate containing acidic solution.



21: 2022/13048. 22: 2022/12/01. 43: 2024/02/14

51: H04N

71: HANGZHOU HIKVISION DIGITAL TECHNOLOGY CO., LTD.

72: SUN, YUCHENG

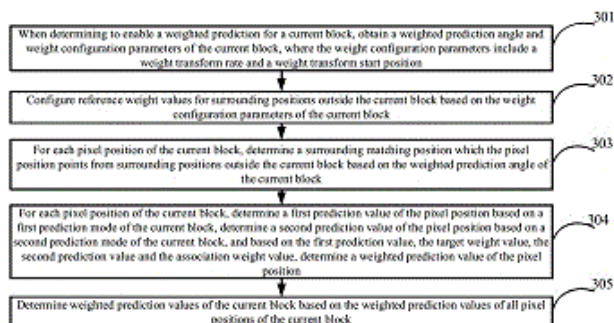
33: CN 31: 202010486400.3 32: 2020-06-01

**54: ENCODING AND DECODING METHOD AND APPARATUS, AND DEVICE THEREFOR**

00: -

Provided are an encoding and decoding method and apparatus, an encoding end device and a decoding end device. The method comprises: acquiring a weight prediction angle and a weight configuration parameter, wherein the weight configuration parameter comprises a weight conversion rate and a weight conversion starting position; configuring reference weight values for peripheral locations outside of the current block according to the weight configuration parameter; determining, from among the peripheral locations outside of the current block and according to the weight prediction angle, a peripheral matched location to which a pixel location points; determining a target weight value of the pixel location according to a reference weight value associated with the peripheral matched location, and determining an associated weight value of the pixel location according to the target weight value of the pixel location; determining a first prediction value of the pixel location according to a first prediction mode, and determining a second prediction value of the pixel location according to a second prediction

mode; and determining a weighted prediction value of the pixel location according to the first prediction value, the target weight value, the second prediction value and the associated weight value.



21: 2022/13049. 22: 2022/12/01. 43: 2024/02/14  
51: H04N; G06T

71: HANGZHOU HIKVISION DIGITAL TECHNOLOGY CO., LTD.

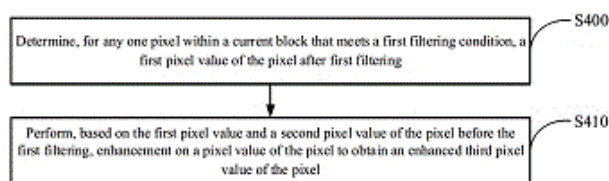
72: CHEN, FANGDONG

33: CN 31: 202010508167.4 32: 2020-06-05

#### **54: IMAGE ENHANCEMENT METHOD AND APPARATUS**

00: -

Provided are a picture enhancement method and apparatus. The picture enhancement method includes: for any one pixel, which meets a first filtering condition, in a current block, determining a first pixel value of the pixel after first filtering; and performing enhancement on a pixel value of the pixel based on the first pixel value and a second pixel value of the pixel point before the first filtering, so as to obtain a third pixel value, which has been subjected to enhancement, of the pixel.



21: 2022/13051. 22: 2022/12/01. 43: 2024/02/14  
51: A01H; C12N

71: BETTERSEEDS LTD

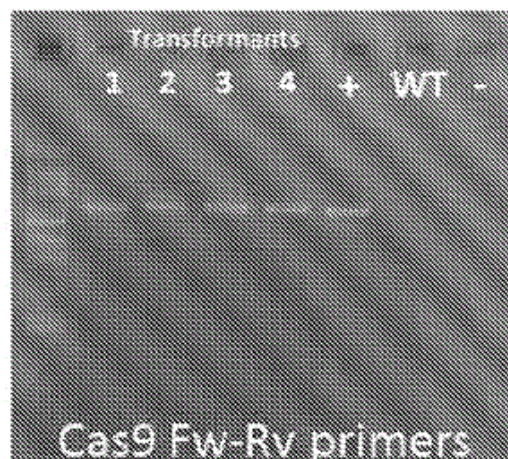
72: SHERMAN, TAL, MARGALIT, IDO, COREM, SHIRA

33: US 31: 62/705,719 32: 2020-07-13

#### **54: CANNABIS WITH ALTERED CANNABINOID CONTENT**

00: -

The present invention discloses a Cannabis plant exhibiting altered tetrahydrocannabinolic acid (THCA) and/or cannabidiolic acid (CBDA) content. The plant comprises a modified genomic locus involved in tetrahydrocannabinolic acid synthase (THCAS) and/or cannabidiolic acid synthase (CBDAS) gene expression, the genomic locus comprises at least one targeted nucleotide modification within a regulatory region modulating the expression of at least one allele of the THCAS and/or CBDAS genes. The present invention further discloses methods for producing the aforementioned Cannabis plant.



21: 2022/13052. 22: 2022/12/01. 43: 2024/02/14  
51: B42D; G06K

71: COMPOSECURE, LLC

72: LOWE, ADAM, ESAU, JOHN

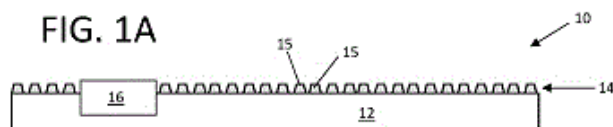
33: US 31: 63/032,911 32: 2020-06-01

#### **54: TRANSACTION CARDS WITH DISCONTINUOUS METAL STRATA**

00: -

A transaction card having a discontinuous metal stratum (14) with a desired degree of electrical eddy current disruption disposed on a surface of a first layer (12), such as a glass or other transparent layer. A transaction module (16) disposed in the first layer is electrically isolated from the discontinuous metal stratum. The discontinuous metal stratum may include a plurality of isolated metal features (15) that form a halftone pattern, such as a pattern that is visibly opaque to the naked eye.



**FIG. 1A**

21: 2022/13083. 22: 2022/12/02. 43: 2024/02/14

51: H04N

71: BYTEDANCE INC.

72: WANG, YE-KUI, ZHANG, LI

33: US 31: 63/033,689 32: 2020-06-02

**54: SIGNALING OF GENERAL CONSTRAINT INFORMATION**

00: -

Methods, systems and devices for signaling of general constraint information are described. An example method of video processing includes performing a conversion between a video comprising one or more pictures and a bitstream of the video according to a rule, wherein the rule specifies that a syntax structure in a profile-tier-level syntax structure is after a syntax element, wherein the syntax structure comprises information related to general constraint information (GCI) for the bitstream, and wherein the syntax element indicates a level to which an output layer set associated with the profile-tier-level syntax structure conforms.

600

Performing a conversion between a video comprising one or more pictures and a bitstream of the video according to a rule that specifies that a syntax structure in a profile-tier-level syntax structure is after a syntax element, the syntax structure comprising information related to general constraint information (GCI) for the bitstream, and the syntax element indicating a level to which an output layer set associated with the profile-tier-level syntax structure conforms

610

21: 2022/13085. 22: 2022/12/02. 43: 2024/02/14

51: C12N; C07K

71: GREEN CROSS CORPORATION

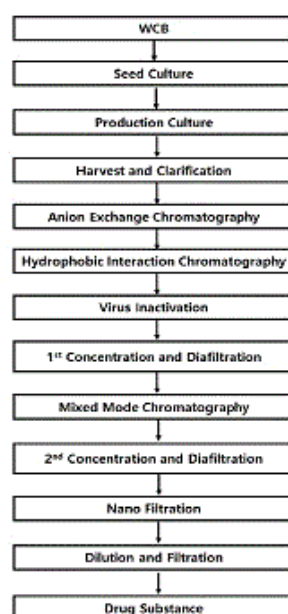
72: LEE, KWANG BAE, KIM, MI SUK, LIM, JUNG AE, JEONG, YOO MIN, HAN, SEUNG RYEL, KIM, JI YEON, YOU, JI SUNG

33: KR 31: 10-2020-0085685 32: 2020-07-10

**54: METHOD FOR PRODUCTION OF VARICELLA ZOSTER VIRUS SURFACE PROTEIN ANTIGEN**

00: -

The present invention relates to a method for production of a varicella zoster virus surface protein antigen. The method for production of a varicella zoster virus surface protein antigen according to the present invention is an effective production method by which a varicella zoster surface protein antigen can be obtained at high yield and purity. Therefore, the method is advantageous for producing a surface protein antigen of varicella zoster virus for use as a vaccine composition for prevention or treatment of chicken pox or herpes zoster.



21: 2022/13086. 22: 2022/12/02. 43: 2024/02/14

51: F24S

71: K2 SYSTEMS GMBH

72: WIGGERS, MELANIE, KOCH, BERND, DANNING, MATTHEW G

33: DE 31: 10 2020 206 810.0 32: 2020-05-29

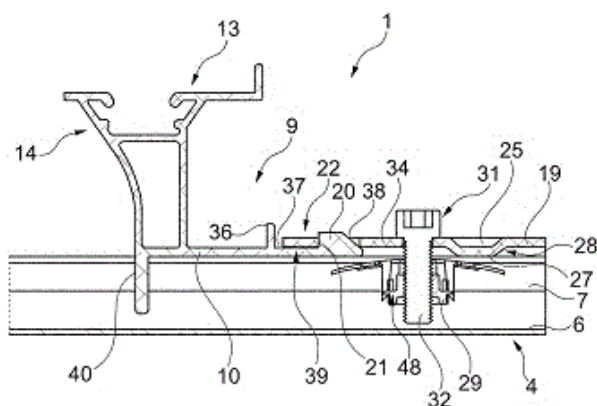
**54: MOUNTING SYSTEM, MOUNTING ASSEMBLY, AND SOLAR INSTALLATION**

00: -

The invention relates to a mounting assembly (1) and a mounting system (2) for planar solar modules (3), comprising: a base rail (4) that can be situated on a roof of a building; at least one L-shaped solar-module carrier (9) which has a retaining limb (10) associated with the base rail (4) and a carrying limb (11) oriented at least substantially perpendicularly thereto, wherein the carrying limb (11) comprises a



support for at least one solar module (3) and the retaining limb (10) is designed to be supported, at least in regions, on the base rail (4); a retaining element (19) for fastening the retaining limb (10) on the base rail (4); and a sliding block (29) which can be moved in the base rail (4) and is or can be connected to the retaining element (19) by a screw connection (48) in order to fasten the retaining element (19) on the base rail (4). The retaining element (19) comprises, in the base portion (34), an edge portion (22) which can be placed on the retaining limb (10) and can be interlockingly connected to the retaining limb (10), and said retaining element comprises, spaced apart from the edge portion (22), at least one spacer (28) which projects from an underside (26) of the base portion and is intended to be supported on the base rail (4), which spacer at least reduces a clamping force that can be generated by the screw connection and acts on the retaining limb (10).



21: 2022/13087. 22: 2022/12/02. 43: 2024/02/14  
51: C11D  
71: UNILEVER GLOBAL IP LIMITED  
72: CHEN, YANCHAO  
33: CN 31: PCT/CN2020/100182 32: 2020-07-03  
33: EP 31: 20190809.2 32: 2020-08-13

#### **54: A UNIT DOSE CAPSULE**

00: -

The present invention provides a unit dose capsule (101) for treatment of a substrate, the capsule (101) comprising three compartments (102, 103, 104) containing a substrate treatment composition, wherein: the capsule (101) is formed from two sheets of water-soluble film, the two sheets of film being sealed together forming a sealing web lying on a sealing plane, the sealing web comprising a

peripheral sealing skirt (108), inter-compartment sealing webs (1024, 1023, 1034) between compartments thereby separating the compartments from one another and a central sealing web (10234), wherein wherein the compartments have an average surface extension ratio in the range of 1.5 to 3, the surface extension ratio is the surface area of the film above the sealing plane to surface area of footprint the compartments located in the sealing plane.

21: 2022/13088. 22: 2022/12/02. 43: 2024/02/14  
51: B01L; C12M  
71: SHAHEEN INNOVATIONS HOLDING LIMITED  
72: LAHOUD, IMAD, MACHOVEC, JEFF, BHATTI, SAJID, ALSHAIBA SALEH GHANNAM ALMAZROUEI, MOHAMMED, LAMOUREUX, CLEMENT  
33: EP 31: 20177685.3 32: 2020-06-01  
33: EP 31: 20214228.7 32: 2020-12-15  
33: GB 31: PCT/GB2021/050822 32: 2021-04-01  
33: EP 31: 20200852.0 32: 2020-10-08  
33: US 31: 63/064,386 32: 2020-08-11

#### **54: AN INFECTIOUS DISEASE SCREENING DEVICE**

00: -

A disease screening device (100) comprising a substrate (101) and a sonication chamber (102) formed on the substrate (101). The sonication chamber (102) is provided with an ultrasonic transducer (105) which generates ultrasonic waves to lyse cells in a sample fluid within the sonication chamber (102). The device (100) comprises a reagent chamber (111) formed on the substrate (101) for receiving a liquid PCR reagent. The device (100) comprises a controller (23) which controls the ultrasonic transducer (105) and a heating arrangement (128) which is provided on the substrate (101). The device (100) further comprises a detection apparatus which detects the presence of an infectious disease, such as COVID-19 disease.

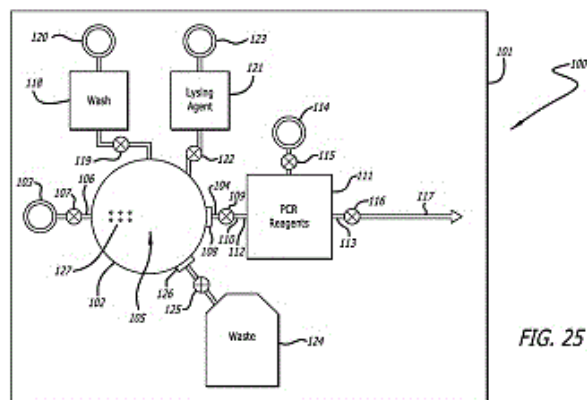


FIG. 25

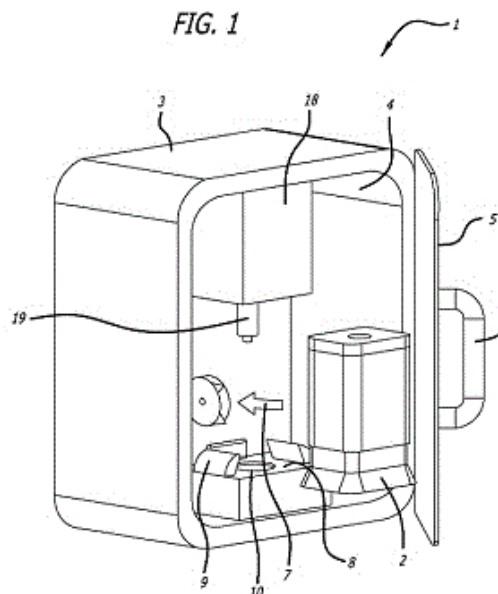


FIG. 1

21: 2022/13089. 22: 2022/12/02. 43: 2024/02/14  
 51: A24B; A24F; A61M; B05B; B01L; C12M  
 71: SHAHEEN INNOVATIONS HOLDING LIMITED  
 72: LAHOUD, IMAD, MACHOVEC, JEFF, BHATTI,  
 SAJID, ALSHAIBA SALEH GHANNAM  
 ALMAZROUEI, MOHAMMED, LAMOUREUX,  
 CLEMENT

33: EP 31: 20200852.0 32: 2020-10-08  
 33: GB 31: PCT/GB2021/050822 32: 2021-04-01  
 33: EP 31: 20177685.3 32: 2020-06-01  
 33: EP 31: 20214228.7 32: 2020-12-15

#### 54: AN INFECTIOUS DISEASE SCREENING SYSTEM

00: -

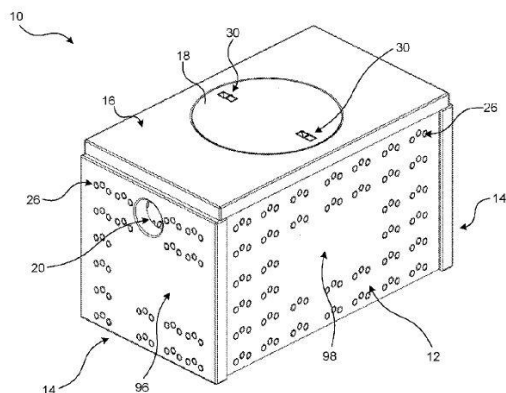
An infectious disease screening system (1) for screening for infectious diseases, such as COVID-19 disease. The system comprises an ultrasonic transducer (49) for generating ultrasonic waves to lyse cells in a biological sample. The system (1) comprises a controller which controls the ultrasonic transducer (49) to oscillate at an optimum frequency for cell lysis, a PCR apparatus (16) which receives and amplifies the DNA from the sample; and a detection apparatus (70) which detects the presence of an infectious disease in the amplified DNA and provides an output which is indicative of whether or not the detection arrangement (70) detects the presence of an infectious disease in the amplified DNA.

21: 2022/13093. 22: 2022/12/02. 43: 2024/02/13  
 51: B28B; E03B; E03F  
 71: Morgan Rungen PILLAY  
 72: PILLAY, Morgan Rungen  
 33: ZA 31: 2020/02706 32: 2020-05-13

#### 54: UNDERGROUND TANK SYSTEM AND METHOD OF MANUFACTURING AN UNDERGROUND TANK SYSTEM

00: -

An underground tank system is disclosed. The system comprises a plurality of panels including at least a pair of side panels, an end panel and a top panel. The panels are configured to be assembled substantially underground so as to define an internal water receiving zone between the panels. The side panels and the end panel are provided with angled slots permitting water to travel into or out of the water receiving zone. A tank network, a kit for manufacturing the underground tank system, and a method of manufacturing and assembling the underground tank system, are also disclosed.



21: 2022/13171. 22: 2022/12/05. 43: 2024/02/14

51: E04H

71: COLHURST CONCEPTS, LLC

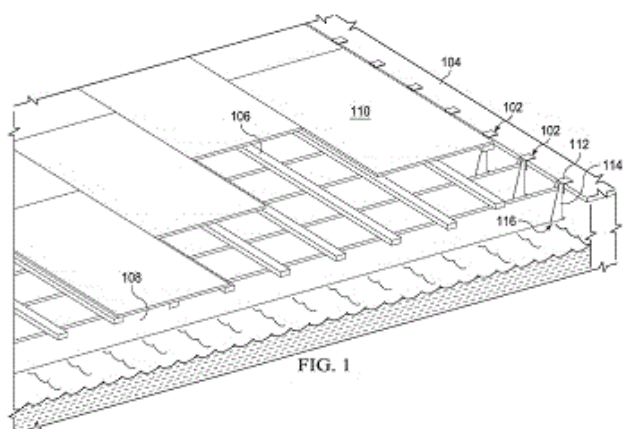
72: OVALLE, ITALIA MARISOL, RAMIREZ, LUIS FERNANDO, WAGNER, SHERWOOD NOËL

33: US 31: 16/866,662 32: 2020-05-05

#### **54: TEMPORARY POOL COVER AND FLOOR SYSTEM**

00: -

The innovation relates to a pool covering system that is usable as a flooring surface. The pool covering system includes brackets that support beams spanning the pool opening. The beams provide structural support to cross members and flooring placed on top of the beams. The pool covering system does not require significant drainage of the pool and does not damage the pool structure during installation and use.



21: 2022/13218. 22: 2022/12/06. 43: 2024/02/14

51: C11D

71: UNILEVER GLOBAL IP LIMITED

72: SHEN, JUN

33: CN 31: PCT/CN2020/100181 32: 2020-07-03

33: EP 31: 20190805.0 32: 2020-08-13

#### **54: UNIT DOSE CAPSULE**

00: -

The present invention provides a method of producing a unit dose capsule for treatment of a substrate comprising the steps of a. placing a first sheet of water-soluble polyvinyl alcohol film over a mould having sets of cavities, each set comprising three cavities arranged on the sealing plane one after the other in circumferential direction such that footprint area of the second and the third compartments is from 0.8 to 2.5 times the area of the footprint of the first compartment; b. heating and applying vacuum to the film to mould the film into the cavities and hold it in place to form three recesses in the film; a first recess, the second recess, and a third recess, the three recesses being connected to respective side recesses by the film; c. filling three different parts of a substrate treatment composition into the three recesses, the three parts together forming a full substrate treatment composition; d. sealing a second sheet of film to the first sheet of film across the formed recesses to form the sealing web comprising a peripheral sealing skirt and inter-compartment sealing webs; and e. cutting between the capsules so that a series of three compartment capsules are formed, each capsule containing a part of a substrate treatment composition in three compartments.

21: 2022/13269. 22: 2022/12/07. 43: 2024/02/14

51: C11D

71: UNILEVER GLOBAL IP LIMITED

72: DAI, MO, DONG, SIYU

33: CN 31: PCT/CN2020/100209 32: 2020-07-03

33: EP 31: 20190812.6 32: 2020-08-13

#### **54: A UNIT DOSE CAPSULE**

00: -

The present invention provides a method of producing a unit dose capsule for treatment of a substrate, the method comprising steps: a. placing a first sheet of water-soluble polyvinyl alcohol film over a mould having sets of cavities, each set comprising three cavities arranged on the sealing plane one after the other in circumferential direction; b. heating and applying vacuum to the film to mould the film into the cavities and hold it in place to form three recesses in the film; a first recess (502), the second recess (503), and a third recess (504), the three

recesses being connected to respective side recesses by the film; c. filling three different parts of a substrate treatment composition into the three recesses (502, 503, 504), the three parts together forming a full substrate treatment composition; d. sealing a second sheet of film to the first sheet of film across the formed recesses to form the sealing web comprising a peripheral sealing skirt (108) and inter-compartment sealing webs (1024, 1023, 1034) having average sealing width in the range of 0.3 to 3 mm between compartments and a central sealing web (10234) thereby separating the compartments (102, 103, 104) from one another to produce a three compartment capsule (101); and e. cutting between the capsules so that a series of three compartment capsules (101) are formed, each capsule containing a part of a substrate treatment composition in three compartments (102, 103, 104).

21: 2022/13271. 22: 2022/12/07. 43: 2024/02/14  
51: A61K; A61P; A61Q  
71: UNILEVER GLOBAL IP LIMITED  
72: SAJI, MAYA TREESA, SALGAONKAR, NEHA, DASGUPTA, ANINDYA  
33: IN 31: 202021025117 32: 2020-06-15  
**54: AN ANTIMICROBIAL COMPOSITION FOR TACKLING MALODOUR**

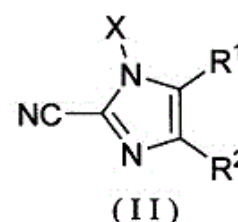
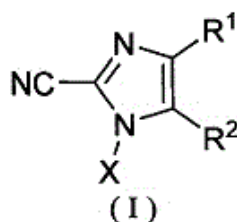
00: -

The present invention relates to an antimicrobial composition, more particularly to a method and a composition to prevent or treat malodour, especially body malodour. This is achieved through a composition that comprises alkyl substituted dihydroxy benzene in combination with thymol or terpineol. The composition is also seen to have anti-acne benefits.

21: 2022/13318. 22: 2022/12/08. 43: 2024/02/13  
51: A61K; A61P  
71: ISHIHARA SANGYO KAISHA, LTD.  
72: SHIKAMA, HIROSHI, HIGUCHI, KOJI, ATSUMI, SHOGO, IMURA, TAKAYUKI  
33: JP 31: 2020-097174 32: 2020-06-03  
**54: ANTIFUNGAL AGENT FOR USE IN HUMANS**

00: -

Provided is a novel antifungal agent for use in humans. A compound represented by formula (I) or formula (II), or a salt thereof, is used as this antifungal agent for use in humans.



21: 2022/13320. 22: 2022/12/08. 43: 2024/02/13  
51: H04N

71: DOLBY LABORATORIES LICENSING CORPORATION

72: ATKINS, ROBIN, SU, GUAN-MING, LAKSHMINARAYANAN, GOPI

33: EP 31: 20183398.5 32: 2020-07-01

33: US 31: 63/046,796 32: 2020-07-01

**54: DISTRIBUTION OF HIGH DYNAMIC RANGE IMAGES IN A MIXED CAPABILITY PLAYBACK SYSTEM**

00: -

A method for distributing High Dynamic Range (HDR) content to playback devices for displaying images where the HDR content is encoded to an HDR bitstream and the HDR bitstream is subsequently decoded by a playback device. The HDR bitstream contains auxiliary metadata packets that are based upon the processing capability of the playback device.

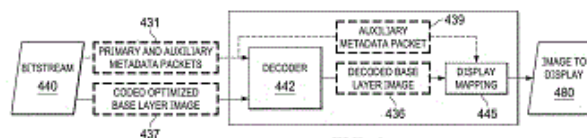


FIG. 4

21: 2022/13321. 22: 2022/12/08. 43: 2024/02/13  
51: A61K

71: KORTUC INC

72: NAVITA, SOMAIAH, OGAWA, YASUHIRO

33: JP 31: 2020-103121 32: 2020-06-15

**54: SENSITIZER FOR CANCER TREATMENT**

00: -

It is still unclear which usage amounts of cancer-treatment sensitizers and which methods of use thereof are effective for tumours and what timetable for cancer treatments such as radiotherapy or anti-cancer chemotherapy is effective after administering a sensitizer. The inventors of the present invention solved this problem by demonstrating that, by injecting a specific amount of a cancer-treatment



sensitiser, which is produced by combining  $H_2O_2$  in a specified concentration range with hyaluronic acid, into a tumour-effected area in a specific procedure, it is possible to increase the effectiveness of cancer treatments such as radiotherapy or anti-cancer chemotherapy.

21: 2022/13322. 22: 2022/12/08. 43: 2024/02/13

51: A61K; A61P

71: GLYCOMIMETICS, INC.

72: MAGNANI, JOHN L., FOGLER, WILLIAM E, SMITH, THEODORE

33: US 31: 63/038,856 32: 2020-06-14

33: US 31: 63/198,856 32: 2020-11-17

33: US 31: 63/060,605 32: 2020-08-03

#### **54: COMPOSITIONS AND METHODS FOR OVERCOMING MICROENVIRONMENT-MEDIATED RESISTANCE VIA E-SELECTIN TARGETING**

00: -

Methods for treating a cancer (such as, e.g., acute myeloid leukemia) comprising administering to a subject (such as, e.g., a subject who has acquired resistance to a therapy comprising at least one antineoplastic agent and/or at least one hypomethylating agent) at least one E-selectin antagonist, wherein the subject is further administered at least one antineoplastic agent (such as, e.g., venetoclax) and/or at least one hypomethylating agent are disclosed.

21: 2022/13365. 22: 2022/12/09. 43: 2024/02/13

51: G01N

71: ILLUMINA, INC.

72: BOYANOV, BOYAN, OTTO, RICO, MANDELL, JEFFREY G

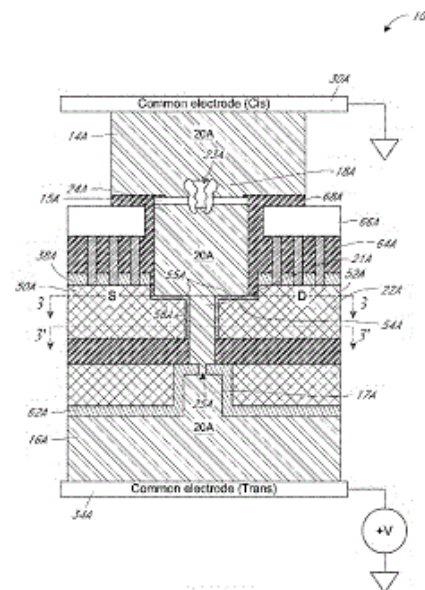
33: US 31: 63/200,868 32: 2021-03-31

33: US 31: 63/047,743 32: 2020-07-02

#### **54: DEVICES WITH FIELD EFFECT TRANSISTORS**

00: -

Devices and methods of using the devices are disclosed which can provide scalability, improved sensitivity and reduced noise for sequencing polynucleotide. Examples of the devices include a biological or solid-state nanopore, a field effect transistor (FET) sensor with improved gate controllability over the channel, and a porous structure.



21: 2022/13411. 22: 2022/12/12. 43: 2024/04/03

51: A01G; A01H

71: GLOBAL ALGAE TECHNOLOGY, LLC

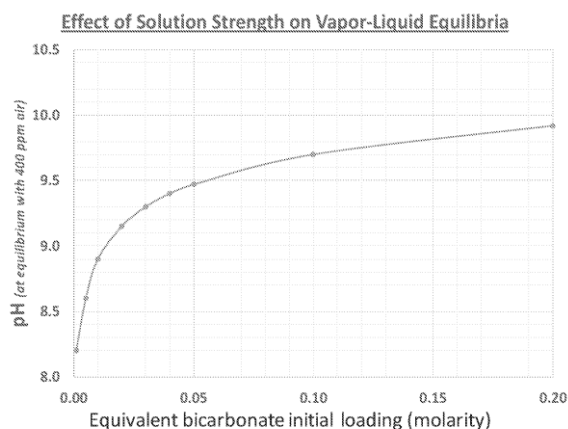
72: HAZLEBECK, David, A., RICKMAN, William, HAZLEBECK, Paul

33: US 31: 63/038,021 32: 2020-06-11

#### **54: SYSTEMS AND METHODS FOR ALGAE CULTIVATION USING DIRECT AIR CAPTURE**

00: -

Embodiments of the disclosure provide systems and methods for supplying an algae cultivation fluid with nutrients (e.g., carbon dioxide and nitrogen) directly from the atmosphere. Supplying nutrients directly from the atmosphere reduces operational costs and environmental impacts, as well as provides greater flexibility in locating algae farms.



21: 2022/13432. 22: 2022/12/12. 43: 2024/02/13



51: H04N

71: BYTEDANCE INC.

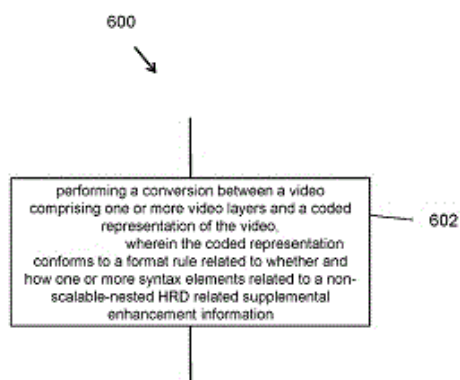
72: WANG, YE-KUI

33: US 31: 63/036,808 32: 2020-06-09

**54: SIGNALING CONSTRAINTS IN NON-SCALABLE NESTED VIDEO SYNTAX ELEMENTS**

00: -

Examples of video encoding methods and apparatus and video decoding methods and apparatus are described. An example method of video processing includes performing a conversion between a video and a bitstream of the video, wherein the bitstream comprises one or more supplemental enhancement information, SEI, network abstraction layer (NAL) units according to a rule, wherein the rule specifies that, responsive to an SEI NAL unit including a non-scalable-nested SEI message of a first payload type, the SEI NAL unit is disallowed to include another SEI message of a second payload type.



21: 2022/13434. 22: 2022/12/12. 43: 2024/02/14

51: C07K; A61P; A61K

71: LG CHEM, LTD.

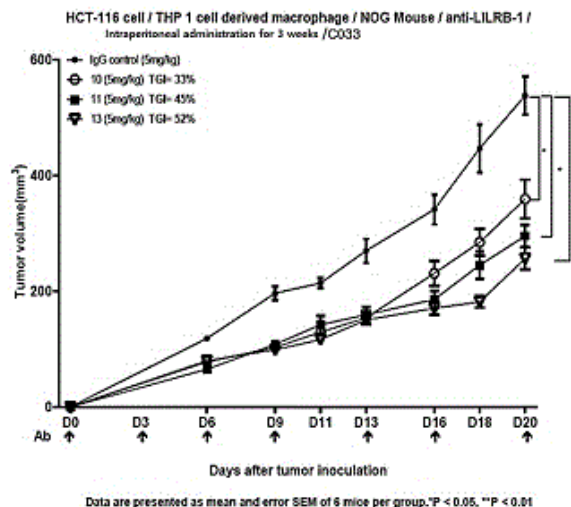
72: CHOI, YOON AA, KIM, HAN BYUL, KANG, SHINYOUNG, KIM, JUNG A, KIM, HEEHANG, KIM, MINSOON, CHO, JUNHAENG

33: KR 31: 10-2020-0094053 32: 2020-07-28

**54: ANTI-LILRB1 ANTIBODY AND USES THEREOF**

00: -

The present invention relates to an anti-LILRB1 antibody having increased specificity for LILRB1, and to uses thereof. Specifically, an anti-LILRB1 antibody or an antigen-binding fragment thereof, and uses thereof in treating cancer are provided.



21: 2022/13476. 22: 2022/12/13. 43: 2024/02/14

51: G01N

71: SO, SHIMBU

72: SO, SHIMBU

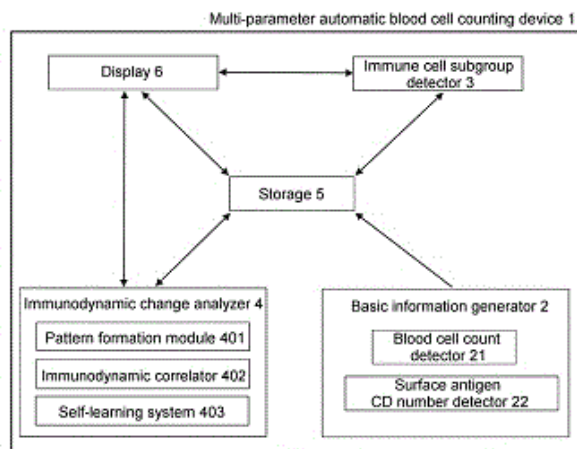
33: JP 31: 2020-095973 32: 2020-06-02

**54: MULTI-PURPOSE AUTOMATED BLOOD CELL COUNTING DEVICE**

00: -

[Problem] To provide a multi-purpose automated blood cell counting device which makes it possible to acquire information on an immune dynamics immediately and also makes it possible to identify an immune state accurately. [Solution] The multi-purpose automated blood cell counting device comprises a basic information production unit, an immune cell subset detection unit, an immune dynamics change analysis unit, a storage unit and a display unit, in which the basic information production unit acquires information on the test of blood cell count and leukocyte differential count of a blood component and information on the analysis of CD classification of a monoclonal antibody capable of binding to a surface antigen of a lymphocyte, the immune cell subset detection unit detects information on an immune cell subset which is necessary for the analysis of the immune state of a subject on the basis of the information on the test of blood cell count and leukocyte differential count of the blood component and the information on the analysis of CD classification of the monoclonal antibody capable of binding to a surface antigen of a lymphocyte, and the immune dynamics change analysis unit identifies information on the change in

immune dynamics of the subject on the basis of the information examined in the basic information production unit, the information examined in the immune cell subset detection unit and the data stored in the storage unit, makes an image of the identified information and displays the image on the display unit.



21: 2022/13482. 22: 2022/12/13. 43: 2024/02/14  
51: B02C

71: MAELGWYN MINERAL SERVICES LIMITED

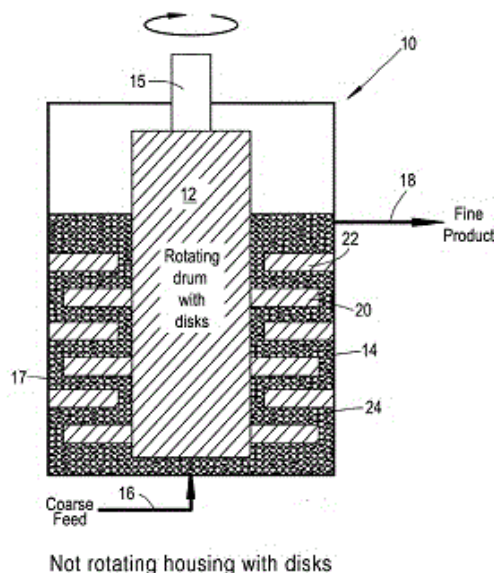
72: IMHOF, RAINER MARIA

33: GB 31: 2008822.5 32: 2020-06-10

#### **54: A MINERAL LIBERATION MACHINE**

00: -

A mineral liberation machine comprising vertical wet grinding mill (10) for grinding coarse material comprising a cylindrical housing (14) containing a rotatable shaft (15) creating an annular channel (17) with an input feed (16) for supplying coarse material and an output feed (18) for withdrawing ground product, in which the rotatable shaft (15) is equipped with a plurality of rotor discs (20) and the cylindrical housing (14) is equipped with one or more stators or stator discs (22), the discs (20, 22) on the rotatable shaft (15) and cylindrical housing (14) are interleaved such that the ratio of the height of the housing (14) to the diameter of the housing (14) is low with the diameter to height ratio being between 0.6 - 1.2.



21: 2022/13534. 22: 2022/12/14. 43: 2024/04/03

51: H04L; H04W

71: IOT.nxt BV

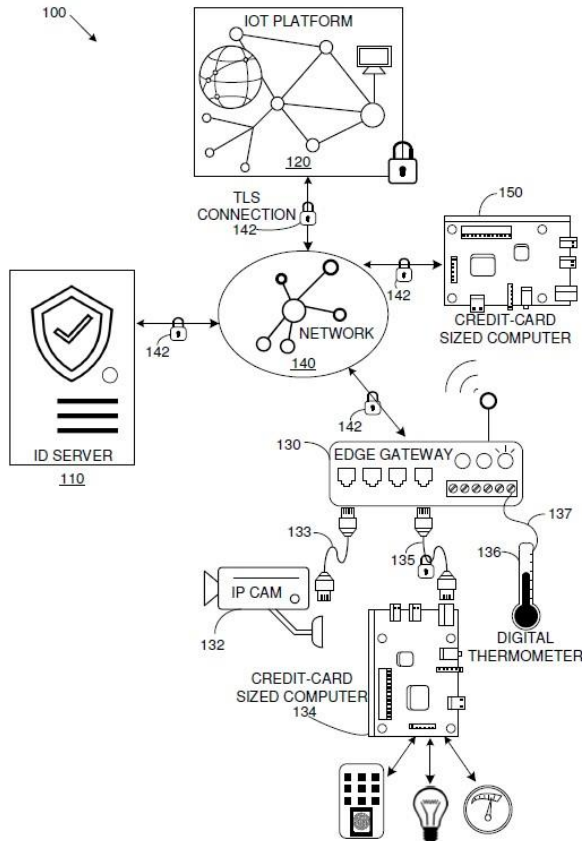
72: JACOBS, Gysbert Johannes

33: ZA 31: 2020/03301 32: 2020-06-03

#### **54: SYSTEM AND METHOD FOR AUTHENTICATING A DEVICE ON A NETWORK**

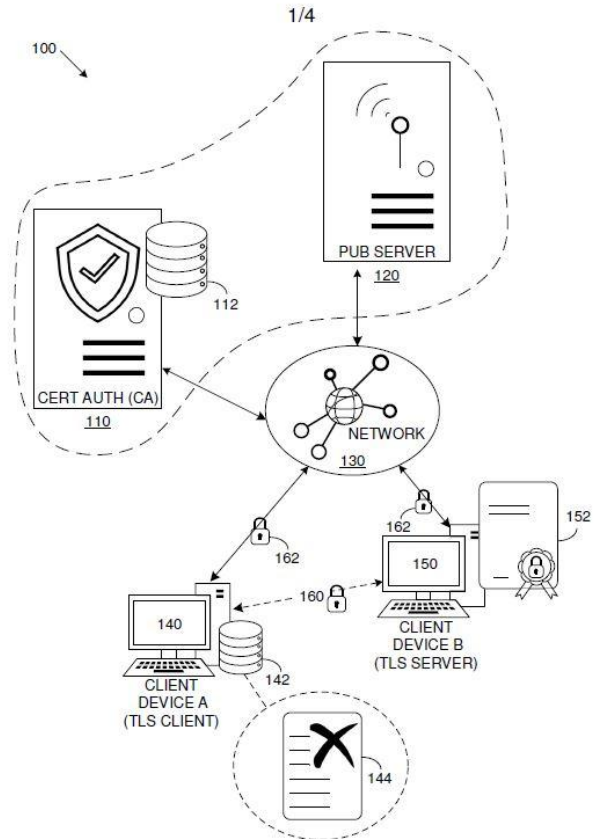
00: -

Methods and systems are provided for authenticating a device on a network. A method (204) includes receiving a message from the device (130), the message cryptographically signed with a device private key. The message (600) includes a device identifier (500) that is computed (402), using the device private key, from at least one descriptor of a hardware component associated with the device, a counter value (604) associated with the device identifier; and a service key request (608). The method further includes verifying (416) the message signature using a device public key. The received counter value is verified (412) to be greater than a previously received counter value associated with the device identifier. A service key is generated (418) and linked to the device identifier. The service key is sent (424) to the device to enable it to communicate through secure network connections.



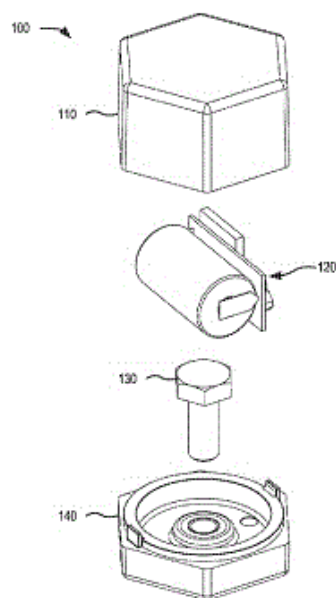
21: 2022/13535. 22: 2022/12/14. 43: 2024/04/03  
 51: G06F; H04L  
 71: IOT.nxt BV  
 72: KOEN, Renico  
 33: ZA 31: 2020/03302 32: 2020-06-03  
**54: SYSTEM AND METHOD FOR MAINTAINING A LIST OF CRYPTOGRAPHIC CERTIFICATES**  
 00: -

Systems and methods for maintaining cryptographic revocation lists are provided. A method includes determining that a cryptographic certificate (152) should be revoked. Based on the determination, a certificate revocation message is broadcast to a network of client devices (140). The certificate revocation message includes an identifier associated with the cryptographic certificate. Each client device that receives the certificate revocation message updates a list (144) maintained by the client device. The updated list indicates that the cryptographic certificate (152) identified by the identifier is no longer valid.



21: 2022/13548. 22: 2022/12/14. 43: 2024/02/14  
 51: G01K; G01H  
 71: CORNELL PUMP COMPANY LLC  
 72: WEISS, AARON, RODRIGUEZ, ITUAH, LINDEMAN, ADAM, FLEMING, GRAYSON, ENTERLINE, ANDREW  
 33: US 31: 63/043,903 32: 2020-06-25  
**54: PUMP SENSOR SYSTEM**  
 00: -

A device, system, and methods are provided for remotely monitoring pump equipment. A sensor device is provided as a one-piece unit that is mechanically mounted to a pump by a single threaded connection. The sensor device includes a vibration sensor and temperature sensor. The sensor device connects to a user device via a wireless personal area network (WPAN) connection to upload a current snapshot of vibration data and temperature data for the pump equipment. An application on the user device may add location data for the time of the data collection and connects to a provider network to upload the vibration data and temperature data.



21: 2022/13605. 22: 2022/12/15. 43: 2024/02/13  
51: H04N

71: HANGZHOU HIKVISION DIGITAL  
TECHNOLOGY CO., LTD.

72: SUN, YUCHENG, CAO, XIAOQIANG, CHEN,  
FANGDONG, WANG, LI

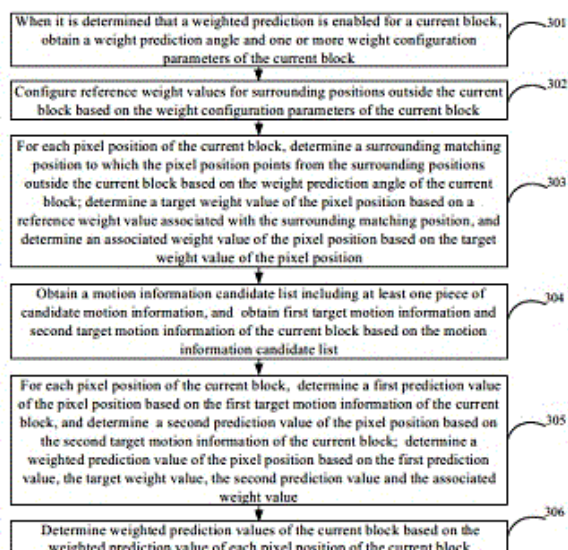
33: CN 31: 202010622752.7 32: 2020-06-30

#### 54: ENCODING AND DECODING METHOD AND APPARATUS, AND DEVICE THEREFOR

00: -

Embodiments of the present disclosure provide an encoding and decoding method, apparatus and device. The method includes: obtaining a weight prediction angle and weight configuration parameters; configuring reference weight values for surrounding positions outside the current block; determining a surrounding matching position to which the pixel position points; determining a target weight value of the pixel position based on a reference weight value associated with the surrounding matching position, and determining an associated weight value of the pixel position based on the target weight value of the pixel position; determining a first prediction value of the pixel position and a second prediction value; determining a weighted prediction value of the pixel position based on the first prediction value, target weight value, second prediction value and associated weight value; determining weighted prediction values of the current block based on the weighted

prediction value of each pixel position of the current block.



21: 2022/13606. 22: 2022/12/15. 43: 2024/02/13

51: B01D; C10L; C01B

71: DIETZ, ULRICH

72: DIETZ, ULRICH

33: DE 31: 10 2020 004 542.1 32: 2020-07-27

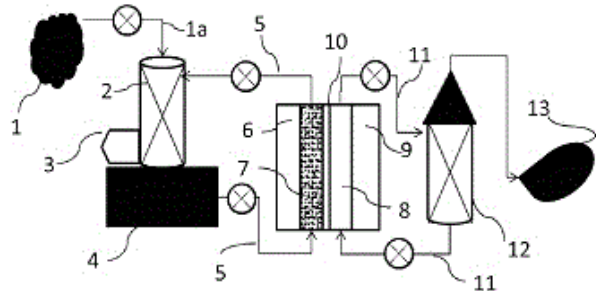
#### 54: METHOD FOR THE BONDING, TRANSPORT, REACTION ACTIVATION, CONVERSION, STORAGE AND RELEASE OF WATER-SOLUBLE GASES

00: -

The present invention relates to a method for the selective bonding, selective membrane transport and storage of carbon dioxide (CO<sub>2</sub>) in aqueous media. The method of the present invention comprises providing an aqueous acceptor solution which contains at least one acceptor compound which has a free guanidino group and/or amidino group which is brought into contact with a gas containing carbon dioxide in order to bond the carbon dioxide in the acceptor solution. The acceptor solutions obtained thereby, which contain bonded carbon dioxide, can be used for the storage of carbon dioxide in aqueous media, for the re-release of carbon dioxide, and for application in electrochemical methods, such as electrodialysis, in order to selectively transport bonded carbon dioxide through separation membranes in aqueous media. The present invention also relates to the preparation of



carbonates starting from acceptor solutions which contain bonded carbon dioxide.



21: 2022/13607. 22: 2022/12/15. 43: 2024/02/14

51: G06Q

71: MORNINGSTAR, INC.

72: IDZOREK, THOMAS M, KAPLAN, PAUL D,  
SOSTRIN, JEFFREY M

33: US 31: 63/034,139 32: 2020-06-03

33: US 31: 63/196,055 32: 2021-06-02

#### 54: PORTFOLIO OPTIMIZATION SYSTEM THAT SIMULTANEOUSLY SUPPORTS MULTIPLE TAX-EXEMPT, TAX-DEFERRED AND TAXABLE ACCOUNTS

00: -

The disclosed embodiments relate to a system that optimizes an investment portfolio across multiple investment accounts with differing tax treatments. During operation, the system receives a call to optimize the portfolio for an investor. First, the system solves for a target asset allocation that specifies a desired allocation for investments in each account type in the portfolio across different asset classes or factor exposures. Next, the system performs a portfolio optimization operation to determine the optimal allocations across different investment options for all accounts in the portfolio with the objectives of maximizing expected after-tax alpha for the portfolio, minimizing a tracking error between the portfolio and the target asset allocation, minimizing taxes on realized capital gains, both now and in the future (for taxable accounts), and minimizing trade costs. Finally, the system generates a set of trading instructions to produce the optimal allocation from a current allocation for the portfolio.

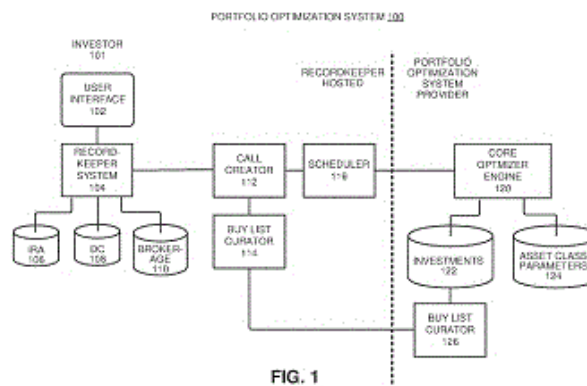


FIG. 1

21: 2022/13685. 22: 2022/12/19. 43: 2024/04/03

51: A61L; C02F; E03D; G21F

71: BEAM-IP B.V.

72: HOL, Alex

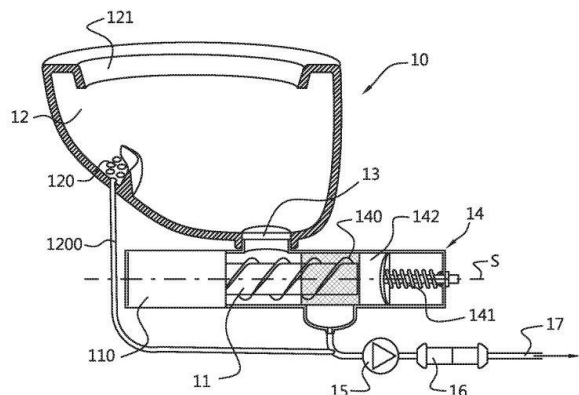
33: NL 31: 2025874 32: 2020-06-19

## 54: METHOD AND DEVICE FOR REMOVING A CHEMICAL SUBSTANCE FROM HUMAN EXCRETA

00: -

The invention relates to a method for removing a chemical substance from human excreta, such as faeces and urine, comprising the following steps of: providing a toilet for a person from whose excreta the chemical substance must be removed; releasably connecting a filtering device to the toilet, wherein the filtering device comprises at least one removable cartridge with a filter; transporting the excreta by means of a transport screw from the toilet toward the filter in the cartridge, wherein pressure is exerted on the excreta by means of a plunger; filtering the chemical substance out of the excreta in situ using the filtering device; periodically replacing the at least one cartridge; and processing the replaced cartridge. The invention also relates to a filtering device for application in this method, and a cartridge for use in such a filtering device.





21: 2022/13688. 22: 2022/12/19. 43: 2024/04/03

51: A61D; G01N; G16H

71: AGSCENT PTY LTD

72: DARLINGTON, Bronwyn

33: AU 31: 2020901611 32: 2020-05-20

**54: METHOD FOR DETERMINING THE PREGNANCY STATE OF AN ANIMAL**

00: -

Disclosed herein is a method for determining a pregnancy state of an animal. The method comprises detecting an amount of one or more biomarkers in a breath sample from the animal, the amount of the or each biomarker being indicative of a pregnancy state of the animal.

21: 2022/13707. 22: 2022/12/19. 43: 2024/02/13

51: C07K; A61K; A61P

71: HARBOUR BIOMED US, INC.

72: SHI, LEI, ZHONG, CHEN, WU, XIAODONG, HE, YUN, CHEN, FEI, LV, XIAOCHENG, XIE, JINLI, RONG, YIPING, HUANG, BING, DU, FANGFANG, ZHAO, JIANXUN

33: CN 31: 202010618149.1 32: 2020-06-30

**54: BISPECIFIC ANTIBODY AND USE THEREOF**

00: -

Provided are a bispecific antibody and a use thereof. The bispecific antibody comprises an antigen binding domain targeting B7-H4 and an antigen binding domain targeting 4-1BB. The bispecific antibody has one, two, or three binding sites for 4-1BB, and at the same time has a brand new fully human B7-H4 antibody. The bispecific antibody specifically binds to tumor cells by targeting B7-H4, thus reducing the toxicity caused by the activation of 4-1BB. In addition, the bispecific antibody has a human Fc fragment, retains the binding effect of Fc and FcRn, and has a relatively long half-life.

21: 2022/13708. 22: 2022/12/19. 43: 2024/02/13

51: C07D; A61P

71: ACCURE THERAPEUTICS, S.L.

72: TARRAGÓ CLUA, TERESA, PRADES COSANO, ROGER

33: EP 31: 20382606.0 32: 2020-07-07

**54: 1-[1-(4-BENZYLOXY-3,5-DIFLUORO-BENZOYL)-4-FLUORO-PYRROLIDINE-2-CARBONYL]-PYRROLIDINE-2-CARBONITRILE**

00: -  
The present invention relates to 1-[1-(4-benzyloxy-3,5-difluoro-benzoyl)-4-fluoro-pyrrolidine-2-carbonyl]-pyrrolidine-2-carbonitrile derivatives having pharmacological activity Formula (I) to processes of preparation of such compounds, to pharmaceutical compositions comprising them, and to their use in therapy and/or prophylaxis of a cognitive disorder.

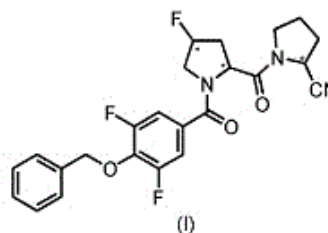
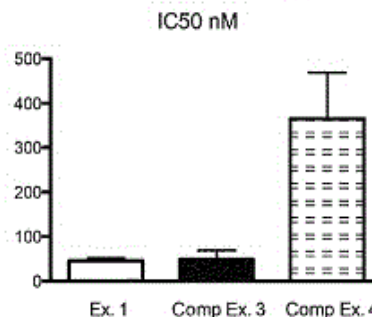


FIGURE 1



21: 2022/13710. 22: 2022/12/19. 43: 2024/02/15

51: C07K; C12N; G01N; A61K

71: WESTVAC BIOPHARMA CO., LTD.

72: WEI, XIAWEI, LU, GUANGWEN, WANG, WEI, YANG, JINLIANG, YANG, LI, LI, JIONG, YANG, JINGYUN, WEI, YUQUAN, WANG, ZHENLING, ZHAO, ZHIWEI, SHEN, GUOBO

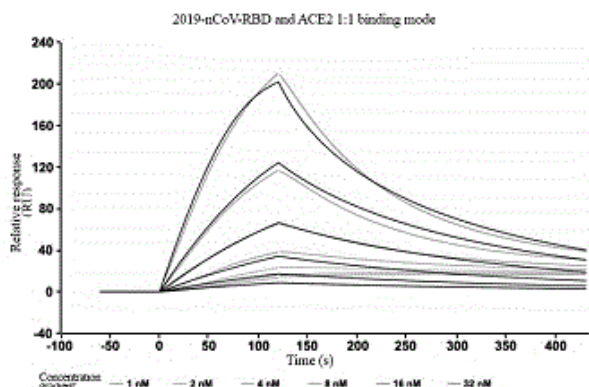
33: CN 31: 202010113054.4 32: 2020-02-24

**54: ANTI-SARS-COV-2 INFECTION PROTEIN AND VACCINE**

00: -

An anti-SARS-CoV-2 infection protein and vaccine. The protein contains a structural domain bound to an angiotensin converting enzyme 2 receptor in an S

protein of SARS-CoV-2. A vaccine for preventing and/or treating the SARS-CoV-2 infection contains the anti-SARS-CoV-2 infection protein, and pharmaceutically acceptable auxiliary materials or auxiliary components.



21: 2022/13759. 22: 2022/12/20. 43: 2024/04/03

51: A24F

71: JOOZEF

72: HARFOUCHE, Joseph

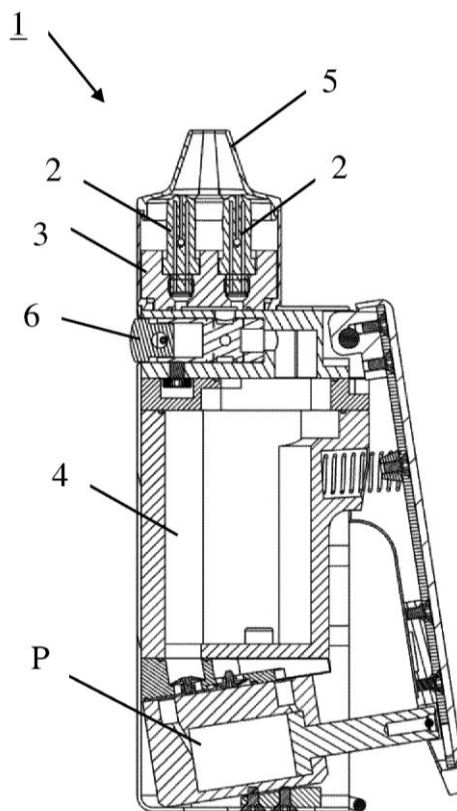
33: EP 31: 20176900.7 32: 2020-05-27

33: BE 31: 2021/5077 32: 2021-02-03

#### 54: DEVICE FOR INHALING A SUBSTANCE

00: -

The present invention relates to a device for inhaling a substance (1), comprising - a cold liquid atomiser (2), - an assembly (E) comprising the atomiser (2) and a first tank (3) arranged to contain at least one substance to be inhaled in liquid form or in solution, the atomiser (2) being in fluid communication with the first tank (3), - a second tank (4) which is arranged to contain a pressurised gas and is in fluid communication with the assembly (E), - a mouthpiece (5) in fluid communication with an outlet of the atomiser (2), - a trigger (6) arranged to release a quantity of the gas out of the second tank (4) and towards the assembly (E), and - a pump (P) arranged to suction, inject and compress ambient air into the second tank (4).



21: 2022/13781. 22: 2022/12/20. 43: 2024/02/15

51: A61K; C07H; A61P

71: ARGORNA PHARMACEUTICALS CO., LTD.

72: ZHANG, BILL BILIANG, ZHAO, HAOTING

#### 54: LIGAND COMPOUNDS, CONJUGATES, AND APPLICATIONS THEREOF

00: -

This disclosure features chemical entities (e.g., a compound or a pharmaceutically acceptable salt, and/or hydrate, and/or cocrystal, and/or drug combination of the compound) that comprise one or more ligand moieties for an asialoglycoprotein receptor (ASGPR). Exemplary chemical entities can further comprise an oligonucleotide. Said chemical entities are useful, e.g., in the targeted delivery of oligonucleotides to liver cells (e.g., liver parenchymal cells). The chemical entities are useful e.g., in the treatment of conditions or diseases caused by the expression (e.g., abnormal expression) of one or more genes in liver cells. This disclosure also features compositions containing the same as well as methods of using and making the same.

21: 2022/13783. 22: 2022/12/20. 43: 2024/02/15

51: H03K

71: GRANITIFIANDRE S.P.A.

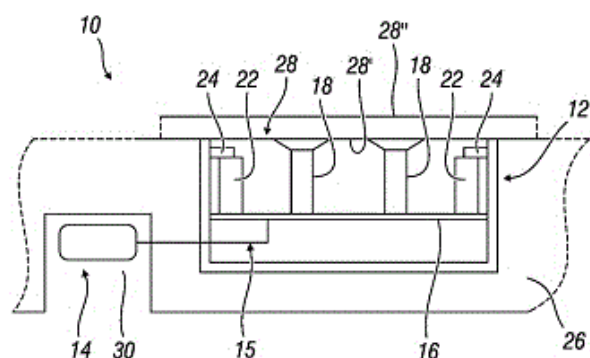
72: ORSI, CARLO

33: IT 31: 102020000016225 32: 2020-07-06

**54: RETRACTABLE CAPACITIVE SWITCH KIT**

00: -

A retractable capacitive switch kit (10) for an electrical system, comprising a switch block or assembly (12) placed in a partition of a wall (26) and below a plate (28) covering said wall (26) without externally protruding elements with respect to said plate or covering, communication interface means with a system control/management device and connection means (15) between said switch block or assembly (12) and said communication interface means.



21: 2022/13870. 22: 2022/12/21. 43: 2024/02/15

51: B60P

71: CATERPILLAR INC.

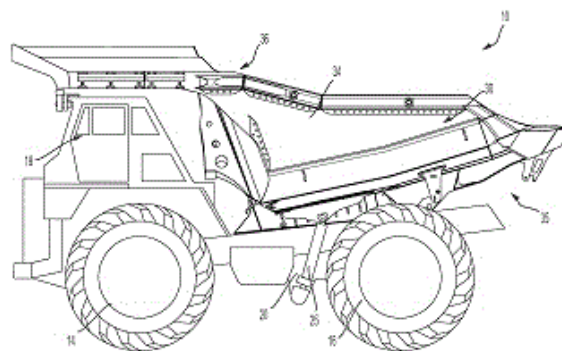
72: ARUL, SAMUEL J

33: US 31: 16/892,997 32: 2020-06-04

**54: RIB-LESS HOIST STRUCTURE FOR TRUCK BODY**

00: -

A hoist structure for a body of a truck can be comprised of a hoist plate arrangement extending in a first direction and configured to be rotatably coupled to a hoist member of the truck; and a plurality of external gussets spaced from each other in the first direction and extending in a second direction perpendicular to the first direction. Each of the external gussets can interface with the hoist plate arrangement, and a portion of each of the external gussets can extend in the second direction from a first side of the hoist structure arrangement.



21: 2022/13894. 22: 2022/12/21. 43: 2024/02/15

51: C07K; A61K

71: PRIME BIO, INC.

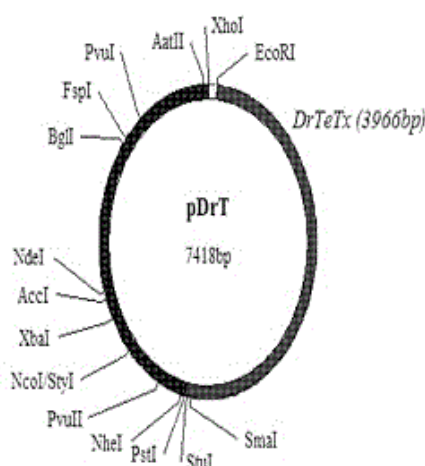
72: SINGH, BAL RAM, PATEL, KRUTI, KUMAR, RAJ

33: US 31: 63/032,544 32: 2020-05-30

**54: TETANUS VACCINE PLATFORM FOR EMBEDDING COVID-19 VACCINE**

00: -

A Detoxified recombinant tetanus neurotoxin (DrTeNT) prepared by mutation of the active site amino acid residues is an effective vaccine candidate, and is to be used for embedding epitopes of SARS-CoV-2 vims protein for vaccination against Covid-19. DrTeNT is a risk-free vaccine, free of formalin or any other chemical adjuvants. The gene clone of DrTeNT has been used to insert DNA sequences corresponding to the most suitable epitopes of SAR-CoV-2 vims. The resultant combo vaccine is to have higher efficacy for DrTeNT acts as adjuvant, and higher safety as most of the population preimmunized with tetanus vaccine.



21: 2022/13895. 22: 2022/12/21. 43: 2024/02/15

51: C07H; C08F

71: STRAINCHEM

72: YOUTE TENDOUNG, JEAN-JACQUES,  
SERRE, AUDREY

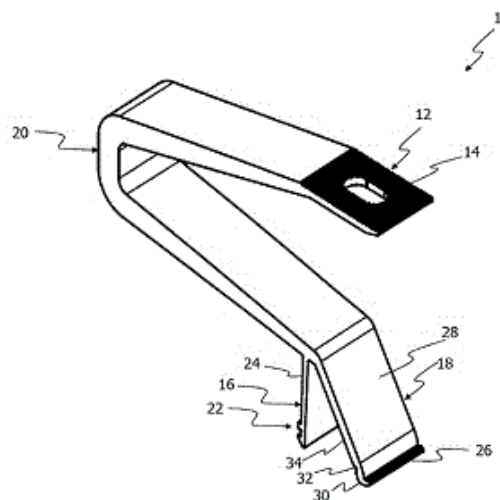
33: FR 31: 2006615 32: 2020-06-24

33: FR 31: 2006654 32: 2020-06-25

**54: METHOD FOR SYNTHESISING  
MACROMOLECULES IN SOLUTION FROM  
CARBOHYDRATE DERIVATIVE UNITS**

00: -

The invention relates to a method for synthesising macromolecules made up of units U that are mostly monosaccharides or monosaccharide derivatives, by successive elongation of a first unit U1 attached by a covalent bond to an anchor molecule soluble in organic solvents. The elongation takes place by coupling with a monomer or oligomer M having at least two functions. The method is characterised in that the anchor molecule comprises a polyolefin chain or a polyolefin oligomer or a polyalkene, with at least 5 monomer units, and preferably between 10 and 50 monomer units, the polyolefin chain preferably being a polyisobutene chain.



21: 2022/13896. 22: 2022/12/21. 43: 2024/02/15

51: F24S; H02S

71: SCHLETTER INTERNATIONAL B.V.

72: ZAPFE, CEDRIK, SCHMID, BERNHARD

33: DE 31: 10 2020 116 376.2 32: 2020-06-22

**54: FASTENING APPARATUS FOR FASTENING  
SOLAR MODULES**

00: -

The present invention relates to a fastening apparatus (1000) for fastening solar modules to a roof, wherein the fastening apparatus (1000) has: a hook (10), wherein the hook (10) has a fastening portion (12) which is designed to be fastened to a mounting rail (72), the hook (10) having at least one first limb (16) and at least one second limb (18), wherein the at least one first limb (16) has at least one latching formation (22) and at least one foot plate (46) which has at least one latching rail (48) for latching to the hook (10), wherein the at least one latching rail (48) has at least one latching formation (50), wherein the first limb (16) and the second limb (18) of the hook (10) can be coupled to the foot plate (46), wherein the latching formation (22) on the first limb (16) can be latched with the latching formation (50) on the latching rail (48).

21: 2022/13900. 22: 2022/12/21. 43: 2024/02/15

51: B66C; F03G

71: ENERGY VAULT, INC.

72: PEDRETTI, ANDREA, PEDRETTI-RODI,  
MAURO

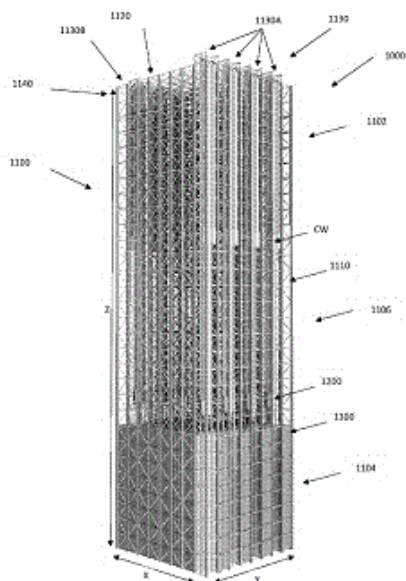
33: US 31: 63/046,187 32: 2020-06-30

**54: ENERGY STORAGE AND DELIVERY SYSTEM  
AND METHOD**

00: -

An energy storage and delivery system (100) includes a crane (120) or elevator cage (1200), where the crane or elevator cage is operable to move one or more blocks (1300) from a lower elevation to a higher elevation to store energy (e.g., via the potential energy of the block in the higher elevation) and operable to move one or more blocks from the higher elevation to the lower elevation (e.g., by gravity) to generate electricity (e.g., via the kinetic energy of the block when moved to the lower elevation). The blocks are moved between the lower elevation and the higher elevation by an equal vertical distance.





21: 2022/13905. 22: 2022/12/21. 43: 2024/04/03

51: B02C

71: METSO OUTOTEC USA INC.

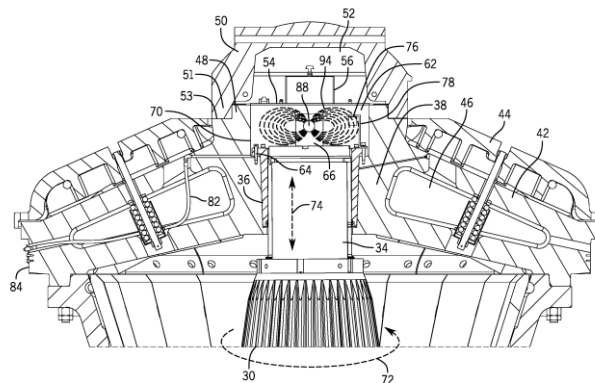
72: URBINATTI, Victor G.

33: US 31: 16/916,314 32: 2020-06-30

#### **54: SYSTEM AND METHOD FOR MONITORING MOVEMENT OF A CRUSHER HEAD**

00: -

A system for monitoring at least one motion parameter of the main shaft of a gyratory or cone crusher. The system includes a sensor, such as a magnetometer, positioned within close proximity to a magnetic element, such as a lifting lug, formed on a top end of the main shaft. When the main shaft rotates or moves vertically, the movement creates a change in the magnetic flux, which is sensed by the magnetometer. The change in the magnetic flux is sensed by the magnetometer and an output signal is generated. A controller receives the output signal and determines at least one motion parameter based upon the detected changes in the magnetic flux. In one embodiment, a permanent magnet can be the magnetic element or can be inserted into the lifting lug to enhance the magnetic flux changes caused by the rotational movement or vertical movement of the main shaft.



21: 2022/13958. 22: 2022/12/22. 43: 2024/02/15

51: B01J; C10G

71: JOHNSON MATTHEY PUBLIC LIMITED COMPANY

72: MERCER, RICHARD

33: GB 31: 2014184.2 32: 2020-09-09

#### **54: MODIFIED CATALYST SUPPORTS AND CATALYSTS SUPPORTED THEREON**

00: -

A modified catalyst support is described in the form of titanium particles with a volume-median diameter in the range 100 to 1000  $\mu\text{m}$  modified with one or more refractory oxides of metals selected from the group consisting of zirconium, lanthanum, cerium, yttrium and neodymium, wherein the total refractory oxide content of the modified catalyst support is in the range of 0.1 to 15% by weight, and the modified catalyst support has a pore volume in the range of 0.2 to 0.6  $\text{cm}^3/\text{g}$  and an average pore diameter in the range of 30 to 60 nm. The modified catalyst support may be used to prepare cobalt Fischer-Tropsch catalysts suitable for use in fixed bed processes.

21: 2022/13966. 22: 2022/12/22. 43: 2024/02/15

51: A41D

71: FIRST WEST GMBH, KUCHARKO, JERZY FRANCISZEK

72: KUCHARKO, JERZY FRANCISZEK

33: AT 31: A145/2020 32: 2020-05-26

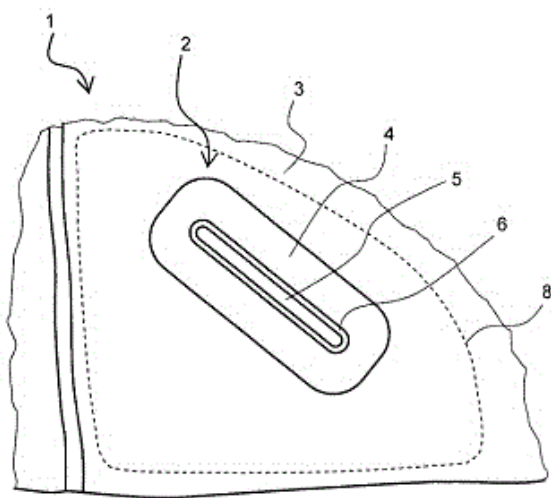
#### **54: TEXTILE ARTICLE EQUIPPED WITH A REACH-THROUGH REGION**

00: -

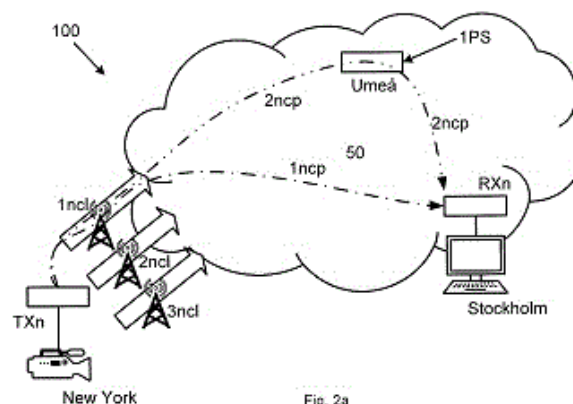
The invention relates to a textile article equipped with a reach-through region (2) for the whole of a human hand, wherein the reach-through region (2) has a separate textile surface (4) which, with its edge, is connected to the edge of a recess in a



surrounding textile surface (3), wherein the separate textile surface (4) and the region of the surrounding textile surface (3) that surrounds it can together be arranged flat in a respectively elastically relaxed and respectively fold-free state, wherein the material of the separate textile surface (4) is further and more flexibly elastically extensible than the material of the surrounding textile surface (3). The edge of the separate textile surface (4) and the edge of the recess have the same shape and size. Situated in the separate textile surface (4) is an opening (5), which is wholly surrounded by the separate textile surface (4).



(1ncp,2ncp,...nncp); at least one proxy node (1PS,2PS,...,nPS) configured to relay data packets received from the transmitting node (TXn) to the receiving node (RXn); a processing circuitry (102a, 102b, 102c) configured to: send data packets from the transmitting node (TXn) to the receiving node (RXn) via a first network connection path (1ncp); send data packets from the transmitting node (TXn) to the receiving node (RXn) via at least one proxy node (1PS,2PS,...,nPS) via at least a second network connection path (2ncp); The disclosure further relates to a method for providing at least one stream of data packets for media and/or video from a transmitting node (TXn) to a receiving node (RXn) and a computer program product (500).



21: 2023/00305. 22: 2023/01/06. 43: 2024/02/29  
51: H04L

71: INTINOR AB

72: AXELSSON, ROLAND, MARTINSSON,  
ANDERS, WEINEHALL, BJÖRN

**54: A MULTIPATH STREAMING SYSTEM AND  
METHOD FOR PROVIDING AT LEAST ONE  
STREAM OF DATA PACKETS FOR MEDIA  
AND/OR VIDEO FROM A TRANSMITTING NODE  
TO A RECEIVING NODE**

00: -

The disclosure relates to a multipath streaming method and system (100) for providing at least one stream of data packets for media and/or video from a transmitting node (TXn) to a receiving node (RXn), the system (100) comprises: a transmitting node (TXn) configured to transmit data packets via at least two network connection paths (1ncp,2ncp,...nncp); a receiving node (RXn) configured to receive data packets via at least two network connection paths

21: 2023/00378. 22: 2023/01/09. 43: 2024/02/12

51: A61K; A61P; C07K; C12N

71: UCB BIOPHARMA SRL

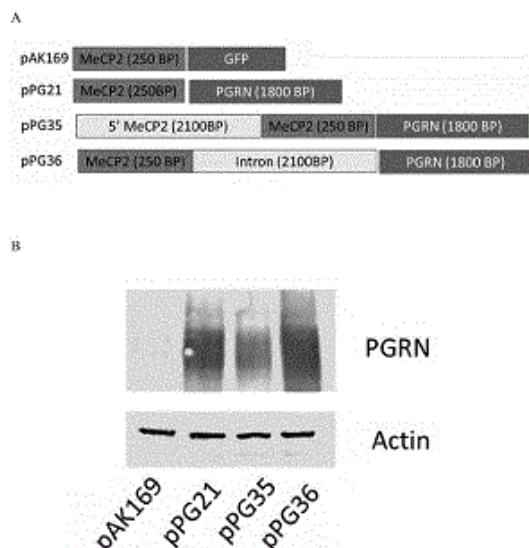
72: DALAL, NIKITA, KABADI, AMI, PATEL, TOSHAL  
ROHIT, DOWNEY, PATRICK MARK,  
SHRIVASTAVA, AMULYA NIDHI

33: US 31: 63/064,431 32: 2020-08-12

**54: GENE THERAPY USING NUCLEIC ACID  
CONSTRUCTS COMPRISING METHYL CPG  
BINDING PROTEIN 2 (MECP2) PROMOTER  
SEQUENCES**

00: -

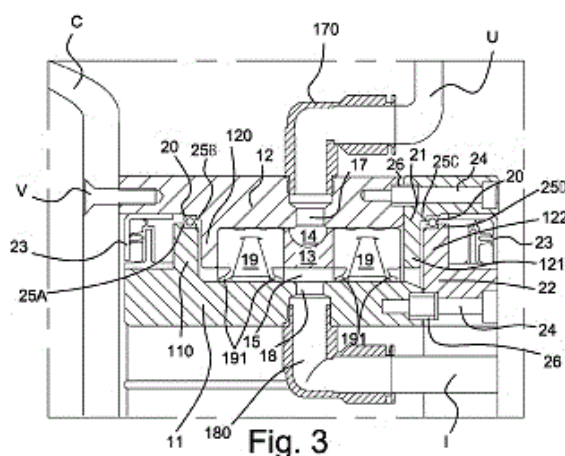
The present invention relates to nucleic acid constructs comprising methyl CpG binding protein 2 (MeCP2) promoter sequences. The present invention further relates to vectors, viral vectors host cells and pharmaceutical compositions comprising said nucleic acid constructs. The present invention also concerns the therapeutic use of said nucleic acid constructs, vectors, viral vectors and pharmaceutical compositions.



21: 2023/00827. 22: 2023/01/18. 43: 2024/02/16  
 51: B60C  
 71: TRELLEBORG WHEEL SYSTEMS ITALIA S.P.A.  
 72: EVANGELISTI, ANDREA, PIERALICE, ENRICO  
 33: IT 31: 102020000019774 32: 2020-08-07  
**54: ROTARY FEED-THROUGH, IN PARTICULAR FOR REGULATING TYRE PRESSURE**  
 00: -

A rotary feed-through, designed to transfer a fluid between two entities in rotary motion with respect to one another, is described. The rotary feed-through comprises an inner cylindrical ring and an outer cylindrical ring, which are free to turn with respect to one another and are provided with channels for passage of the fluid. The channels are connected via at least one annular space axially delimited by seal rings housed in a cylindrical seat. The cylindrical seat faces radially outwards or inwards and is axially delimited, on one side, by an axial abutment of the inner and outer cylindrical rings and, on the other side, by an axial abutment of a lid, or of a closing ring, or of an intermediate ring. The seal rings are interference fitted to the inner cylindrical ring or outer cylindrical ring and are provided with an elastic portion for contact with the surface of the inner cylindrical ring or outer cylindrical ring. The rotary feed-through comprises means that prevent the axial movement of the inner cylindrical ring with respect to the outer cylindrical ring. At least one bearing is arranged between the inner and outer cylindrical rings and is configured for supporting both the radial

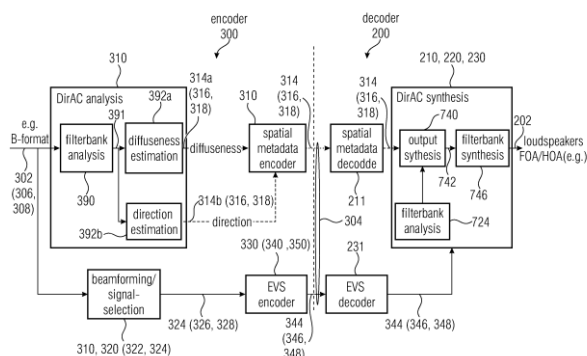
load and the axial load between the inner and outer cylindrical rings. The inner cylindrical ring is provided with at least one first shoulder and the outer cylindrical ring is provided with at least one second shoulder, which is set in front of the first shoulder. Each bearing is arranged between a first shoulder and a second shoulder, so that the bearing constitutes an axial constraint in regard to the possibility of mutual axial sliding between the inner and outer cylindrical rings, the axial constraint maintaining the mutual position between the inner and outer cylindrical rings during mutual rotation.



21: 2023/01024. 22: 2023/01/24. 43: 2024/02/12  
 51: G10L; H04J  
 71: FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V.  
 72: FUCHS, Guillaume, TAMARAPU, Archit, EICHENSEER, Andrea, KORSE, Srikanth, DÖHLA, Stefan, MULTRUS, Markus  
 33: EP 31: 20188707.2 32: 2020-07-30  
**54: APPARATUS, METHOD AND COMPUTER PROGRAM FOR ENCODING AN AUDIO SIGNAL OR FOR DECODING AN ENCODED AUDIO SCENE**  
 00: -

There are disclosed an apparatus for generating an encoded audio scene, and an apparatus for decoding and/or processing an encoded audio scene; as well as related methods and non-transitory storage units storing instructions which, when executed by a processor, cause the processor to perform a related method. An apparatus (200) for processing an encoded audio scene (304) may comprise, in a first frame (346), a first soundfield

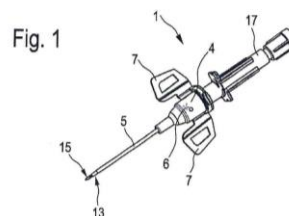
parameter representation (316) and an encoded audio signal (346), wherein a second frame (348) is an inactive frame, the apparatus comprising: an activity detector (2200) for detecting that the second frame (348) is the inactive frame; a synthetic signal synthesizer (210) for synthesizing a synthetic audio signal (228) for the second frame (308) using the parametric description (348) for the second frame (308); an audio decoder (230) for decoding the encoded audio signal (346) for the first frame (306); and a spatial renderer (240) for spatially rendering the audio signal (202) for the first frame (306) using the first soundfield parameter representation (316) and using the synthetic audio signal (228) for the second frame (308), or a transcoder for generating a meta data assisted output format comprising the audio signal (346) for the first frame (306), the first soundfield parameter representation (316) for the first frame (306), the synthetic audio signal (228) for the second frame (308), and a second soundfield parameter representation (318) for the second frame (308).



21: 2023/01025. 22: 2023/01/24. 43: 2024/04/03  
51: A61M  
71: B. BRAUN MELSUNGEN AG  
72: KLAAS, Stefan, SCHNEIDER, Uwe Erik, PALA SANDARAM, Kavintharan, SOON, Wei Jin, TAN, Aik Aun, GOH TEE LIANG, Jeremy, TEOH, Hui Kuun  
33: DE 31: 102020209931.6 32: 2020-08-06  
**54: CATHETER ARRANGEMENT INCLUDING A VALVE ELEMENT ELASTICALLY DEFORMABLE BY FLUID PRESSURE**

00: -  
A catheter arrangement comprising a valve element with an elastic wall portion through which a fluid passage extends, wherein the fluid passage can be shifted by means of deformation of the wall portion between an open state, in which the fluid passage is

open, and a closed state, in which the fluid passage is closed.



21: 2023/01081. 22: 2023/01/25. 43: 2024/01/29  
51: A61K A61P

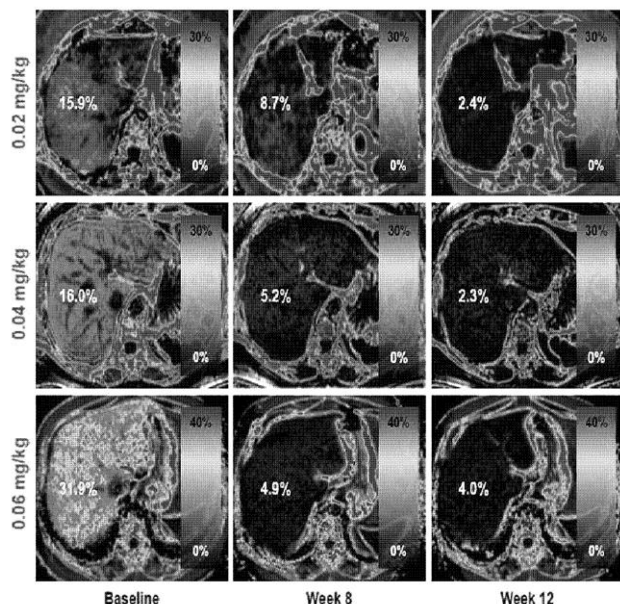
71: HANMI PHARM. CO., LTD.  
72: BAEK, Seungjae, CHOI, Jaeduk, SHIN, Wonjung, KIM, Jung Kuk

33: KR 31: 10-2020-0102604 32: 2020-08-14

**54: PHARMACEUTICAL COMPOSITION COMPRISING LONG-ACTING CONJUGATE OF TRIPLE GLUCAGON/GLP-1/GIP RECEPTOR AGONIST**

00: -

The present invention relates to a pharmaceutical composition comprising a triple-activator persistent conjugate as an active ingredient and a method for treating obesity and/or nonalcoholic steatohepatitis disease by using same. The composition comprising a persistent conjugate of a triple activator according to the present invention can be applied to the treatment of obesity and/or nonalcoholic steatohepatitis disease without adverse effects according to the stability and therapeutic efficacy for obesity and/or nonalcoholic steatohepatitis disease.



21: 2023/01086. 22: 2023/01/25. 43: 2024/02/27

51: A61K; A61P

71: Cybin UK Ltd

72: LAYZELL, MARIE CLAIRE, RENNIE, JAMES MAXWELL

33: US 31: 17/006,115 32: 2020-08-28

33: GB 31: 2013571.1 32: 2020-08-28

#### 54: INJECTABLE FORMULATION

00: -

Provided herein are pharmaceutical formulations, methods for their production, and uses thereof. The pharmaceutical formulations comprise a salt of an optionally substituted dimethyltryptamine compound, a buffer, which is separate to the salt, and water. The formulations have pH values of from about 3.5 to about 6.5 and osmolalities of about 250 to about 350 mOsm/Kg. Such formulations are optionally suitable for injection, being both stable and clinically acceptable, and have potential uses in the treatment of psychiatric or neurological disorders.

21: 2023/01107. 22: 2023/01/26. 43: 2024/02/29

51: C07C; C11D

71: ADVANSIX RESINS & CHEMICALS LLC

72: ASIRVATHAM, EDWARD, HONCIUC, ANDREI, MIHALI, VOICHITA

33: US 31: 63/049,726 32: 2020-07-09

#### 54: BRANCHED AMINO ACID SURFACTANTS

00: -

The present disclosure provides derivatives of amino acids that have branched alkyl structures and surface-active properties. The amino acid can be

naturally-occurring or synthetic, or they may be obtained via a ring-opening reaction of a lactam, such as caprolactam. The amino acid may be functionalized to form a compound that is surface-active and have advantageous surfactant characteristics. The compounds of the present disclosure have low critical micelle concentrations (CMC) as well as superior ability to lower the surface tension of a liquid.

21: 2023/01108. 22: 2023/01/26. 43: 2024/02/29

51: C07C; C11D

71: ADVANSIX RESINS & CHEMICALS LLC

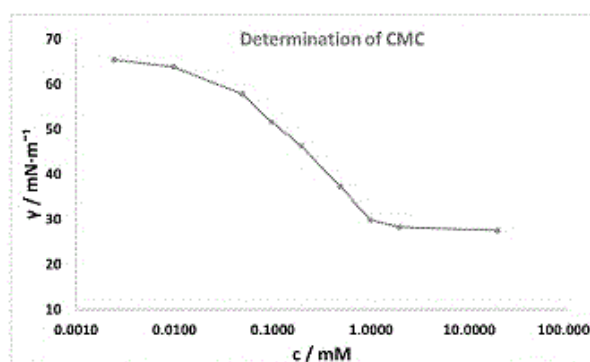
72: ASIRVATHAM, EDWARD, HONCIUC, ANDREI, MIHALI, VOICHITA

33: US 31: 63/049,744 32: 2020-07-09

#### 54: BRANCHED AMINO ACID SURFACTANTS

00: -

The present disclosure provides derivatives of amino acids that have branched alkyl structures and surface-active properties. The amino acid can be naturally-occurring or synthetic, or they may be obtained via a ring-opening reaction of a lactam, such as caprolactam. The amino acid may be functionalized to form a compound that is surface-active and have advantageous surfactant characteristics. The compounds of the present disclosure have low critical micelle concentrations (CMC) as well as superior ability to lower the surface tension of a liquid.



21: 2023/01109. 22: 2023/01/26. 43: 2024/02/27

51: A61K

71: ADVANSIX RESINS & CHEMICALS LLC

72: ASIRVATHAM, EDWARD

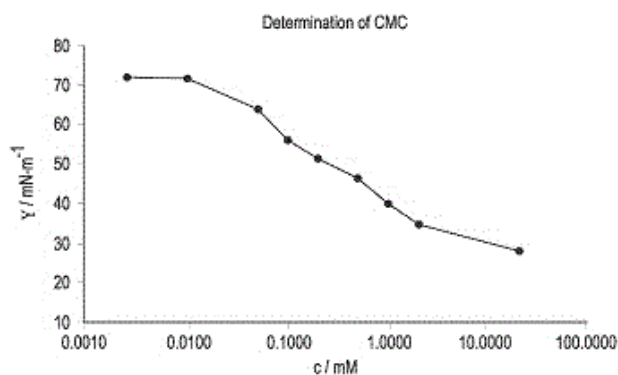
33: US 31: 63/051,190 32: 2020-07-13

#### 54: BRANCHED AMINO ACID SURFACTANTS FOR USE IN HEALTHCARE PRODUCTS



00: -

Healthcare formulations, including, inventive surfactants, Active ingredient formulated as solids, liquids, or emulsions. The present disclosure provides formulations of healthcare products, such as: prescription drugs, over the counter drugs; minerals, herbal, and/or vitamin supplements; drugs administered in hospitals, clinics, physician's office, and places of palliative care; vaccines, tissue, organ, and cell transplants and/or grafts and/or infusions; and wound care formulations including topical ointments, lotions, cleaners, wipes, bandages, and dressings. The Active may be included in the formulations as a solute, a solvent, a particle, or an oil immiscible component of the formulation. The Active may be included in tablets, capsules, tinctures, liquids, or emulsions. Inventive healthcare formulations include formulations suitable for administration orally, topically, and/or by injection.



21: 2023/01142. 22: 2023/01/27. 43: 2024/02/06

51: A23J; A23P; B29C

71: ABB SCHWEIZ AG, ETH ZÜRICH, PLANTED FOODS AG

72: HO, CHAU-HON, SPUDIC, VEDRANA, LISTMANN, KIM, SCHOENBORN, SANDRO, BORRELLI, ELSI-MARI, SOMMER, PHILIPP, MERCANGOEZ, MEHMET, RÜHS, PATRICK, STIRNEMANN, ERIC, WINDHAB, ERICH J, BÖNI, LUKAS

33: EP 31: 20186396.6 32: 2020-07-17

#### 54: SUPERVISORY MACHINE INTELLIGENCE CONTROLS FOR PRODUCTION OF MEAT SUBSTITUTES

00: -

A system includes a wet extrusion process machine configured to receive, mix, and convey a plurality of ingredients to an extrusion die, the plurality of ingredients include a protein powder, an oil, and

water. The system includes an electronic process control system (EPCS) configured to control the wet extrusion machine using a plurality of process settings effective to produce an extrusion die mixture which is forced into, passes through, and is output from the extrusion die. The system further comprises a supervisory machine intelligence control system (SMICS) operatively coupled with at least one of a direct fibrosity measurement (DFM) subsystem configured to directly measure one or more physical fibrosity parameters of the extrusion die mixture, and an indirect fibrosity measurement (IFM) subsystem configured to measure one or more extrusion process parameters associated with the extrusion die mixture. The SMICS is configured to modify one or more of the plurality process settings in response to at least one of the one or more physical fibrosity parameters, and the one or more extrusion process parameters, effective to modify the extrusion die mixture.

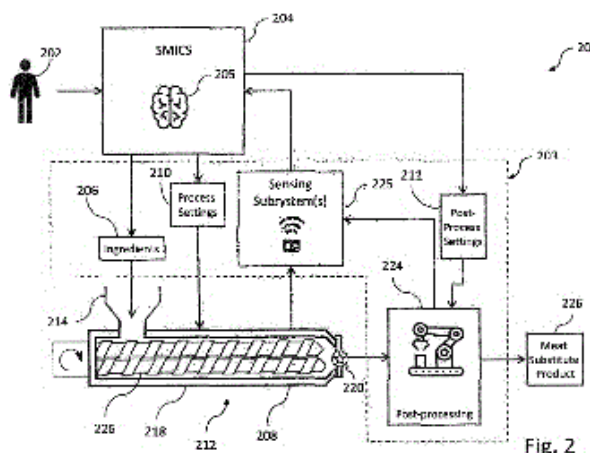


Fig. 2

21: 2023/01410. 22: 2023/02/03. 43: 2024/04/03

51: E01F

71: Turnstar Systems (Pty) Ltd

72: SACKS, Craig

33: ZA 31: 202108649 32: 2021-11-05

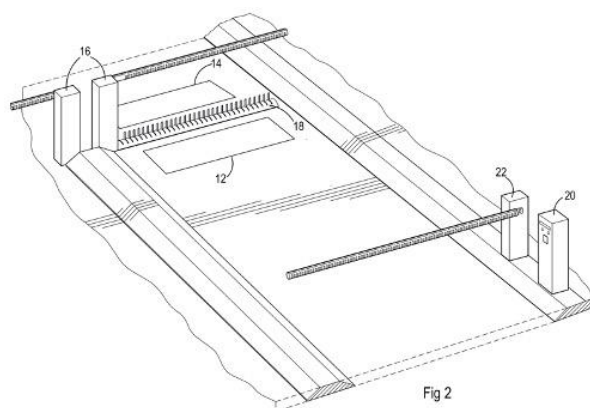
#### 54: VEHICLE EXIT CONTROL

00: -

The invention relates to a detection arrangement, which includes at least one sensor disposed proximate a vehicle barrier and a microcontroller connected to the at least one sensor and an access control device. The microcontroller being operable to read an authorization output from the access



control device, to read a sensor output from at least one sensor and to activate an alarm output when the sensor output from the at least one sensor is active while an authorization output from the access control device is inactive. The invention extends to a method of detecting an anomaly, which method includes detecting presence of activity proximate a vehicle barrier, detecting absence of a valid authorization transaction at an access control device associated with the vehicle barrier and activating an alarm output in response to the detection.



21: 2023/01636. 22: 2023/02/09. 43: 2024/04/11  
51: F42D

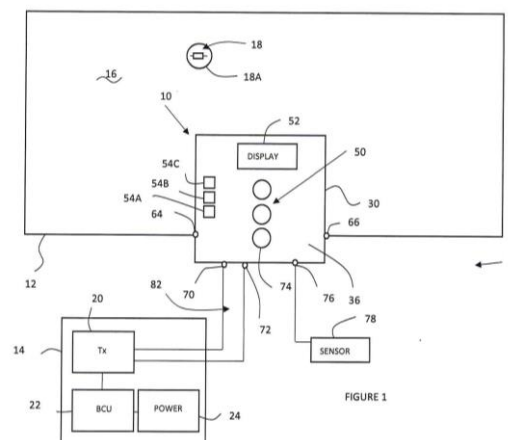
71: DETNET SOUTH AFRICA (PTY) LTD  
72: MULLER, Elmar Lennox, LIEBENBERG, Abraham Johannes, MEYER, Tielman Christiaan, SMITH, Ruan

33: ZA 31: 2021/03409 32: 2021-05-20

#### **54: APPARATUS FOR USE IN A WIRELESS DETONATOR SYSTEM**

00: -

Apparatus, for use in a wireless detonator system, which includes a portable housing, a bank of capacitors in the housing, first terminals for connection to selected capacitors to an antenna in the system, second terminals for connection to a transmitter, and a measurement and output arrangement which provides signals which indicate the integrity of such connections.



21: 2023/02555. 22: 2023/02/24. 43: 2024/02/26

51: F27B

71: HENAN LONGCHENG COAL HIGH EFFICIENCY TECHNOLOGY APPLICATION CO., LTD.

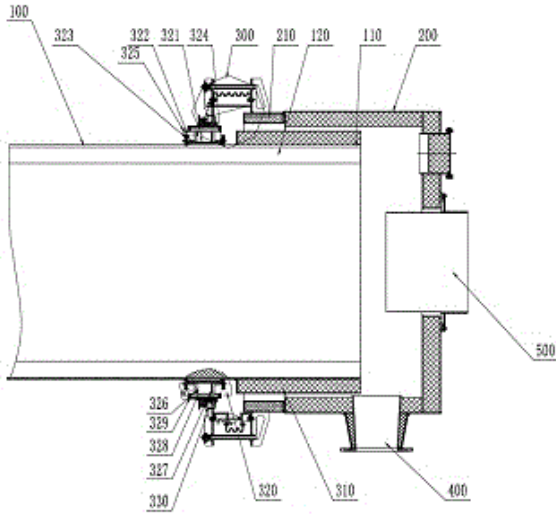
72: ZHU, SHUCHENG, LI, JINFENG, ZHAO, BO, WANG, YONGXING, WANG, XIBIN

33: CN 31: 202011069245.1 32: 2020-09-29

#### **54: SEALING STRUCTURE OF HORIZONTAL ROTARY PYROLYSIS KILN**

00: -

The present invention relates to sealing technologies of thermal sealing covers of horizontal rotary kilns, and provides a sealing structure for a horizontal rotary pyrolysis kiln. A movable heat-insulation sealing ring is disposed such that a heat-insulation cavity is formed between the movable heat-insulation sealing ring and a flexible sealing mechanism. The heat-insulation cavity can effectively block the heat dissipated from a kiln tail cover and a kiln tail, thereby effectively reducing the ambient temperature of the flexible sealing mechanism in the heat-insulation cavity. In this way, the service life of the flexible sealing mechanism is prolonged, and the effectiveness of sealing is thus ensured.



21: 2023/02901. 22: 2023/02/27. 43: 2024/01/31

51: G02B

71: Huawei Technologies Co., Ltd.

72: LI, Xiupeng, XIONG, Wei, PENG, Shangjun

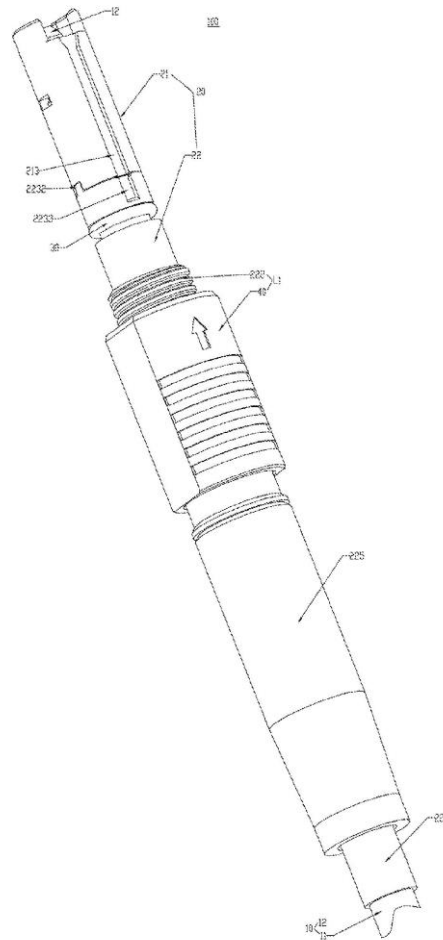
33: CN 31: 202010880697.1 32: 2020-08-27

**54: FIBER CONNECTOR PLUG, FIBER ADAPTER, CONNECTOR ASSEMBLY, AND COMMUNICATIONS DEVICE**

00: -

An optical fiber connector plug (100, 300), an optical fiber adapter (200), a connector assembly (100A, 300A), and a communication device (1000). The optical fiber connector plug (100, 300) comprises a main housing (22) sleeved on the periphery of an optical fiber and a first locking structure (L1) provided on the outer surface of the main housing (22). The first locking structure (L1) is used for matching a second locking structure (L2) on the optical fiber adapter (200). The first locking structure (L1) comprises a sliding member (40) and a locking portion (2235). The locking portion (2235) is fixed to the main housing (22). The sliding member (40) is slidably connected to the main housing (22) between a first position and a second position. The locking portion (2235) is located between the sliding member (40) and an insertion core (12). When the sliding member (40) is located at the first position, the sliding member (40) works in concert with the locking portion (2235) to together lock the second locking structure (L2). Unlocking is realized by moving the sliding member (40) to the second position. By means of the design of the optical fiber connector plug (100, 300), an operation space can be saved, thereby facilitating arranging more optical

fiber connection ports in a limited space of the communication device.



21: 2023/03172. 22: 2023/02/28. 43: 2024/01/24

51: G02B

71: Huawei Technologies Co., Ltd.

72: LI, Xiupeng, XIONG, Wei, PENG, Shangjun

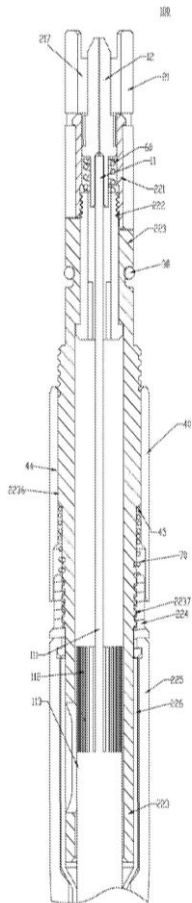
33: CN 31: 202010881525.6 32: 2020-08-27

**54: FIBER CONNECTOR PLUG, FIBER ADAPTER, CONNECTOR ASSEMBLY, AND COMMUNICATIONS DEVICE**

00: -

An optical fiber connector plug (100), an optical fiber adapter (200), a connector assembly (100A) and a communication device (1000). The optical fiber connector plug (100) comprises a ferrule (12) fixed to an optical fiber (11), a main housing (22) surrounding the optical fiber (11), and a front frame sleeve (21); the front frame sleeve (21) is fixed to the main housing (22) and surrounds the ferrule (12), a front end face (121) of the ferrule (12) is flush with a front end face (211) of the front frame sleeve (21), or

the front end face (121) of the ferrule (12) in an axial direction is located between the front end face (211) of the front frame sleeve (21) and a rear end face (212) of the front frame sleeve (21); a slot (217) is formed between the front frame sleeve (21) and the ferrule (12), the slot (217) is used for accommodating an end face of a ferrule sleeve (202) of an optical fiber adapter (200), and the ferrule (12) is used for being inserted into the ferrule sleeve (202). The optical fiber adapter (200) is connected to the optical fiber connector plug (100) in a fitted manner. The connector assembly (100A) comprises the optical fiber adapter (200) and the optical fiber connector plug (100). The communication device (1000) comprises a housing (400) and the optical fiber adapter (200). The arrangement of the front frame sleeve (21) is beneficial to the miniaturization design of the optical fiber connector plug (100), and more optical fiber connection ports can be arranged in a limited space.



21: 2023/03317, 22: 2023/03/03, 43: 2024/01/29

51: B65D

71: LECAVALIER CELLARS, LLC

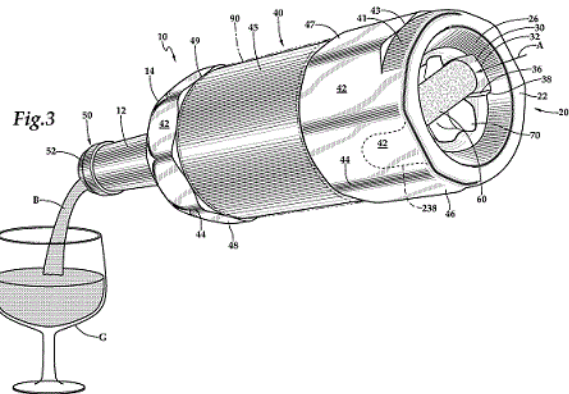
72: FOURNIER, Michel, M., MACKENZIE, Evan

33: US 31: 63/069,328 32: 2020-08-24

## 54: WINE BOTTLE WITH CORK RETAINER AND RE-USE FEATURES

00: -

A wine bottle is provided with a punt at a lower end which includes a cork retainer therein. A cork which closes an opening at an upper end of the bottle, can thus be stored within the cork retainer in the punt of the bottle, when not in use closing the opening. In one embodiment, the cork retainer includes two retainer surfaces which are opposing each other horizontally, and spaced apart by a length similar to opposing portions of the cork to allow the cork to fit tightly between these retainer surfaces. Space above the retainer surfaces can hold a foil wrap with the cork within the cork retainer and holding the foil wrap in place. The cork and foil can thus remain with the bottle before, during and after use. Full re-use of the bottle is thus facilitated.



21: 2023/03445. 22: 2023/03/09. 43: 2024/04/04

51: B01D; C25C; H01M

71: MANN+HUMMEL LIFE SCIENCES &  
ENVIRONMENT HOLDING SINGAPORE PTE. LTD.

72: Andreas KLOZ, Steffen SCHÜTZ, Florian

ROGHMANS, Johannes BENDER

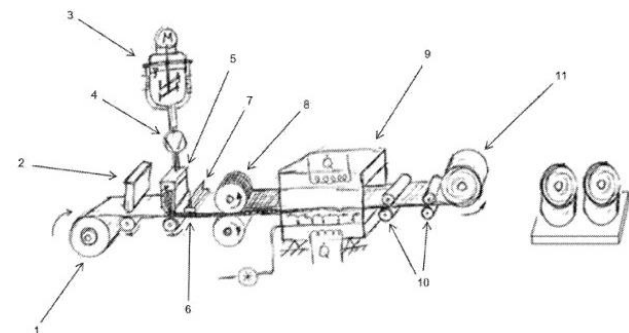
33: EP 31: 20205083.7 32: 2020-10-31

## 54: ACID-BASE POLYMER BLEND MEMBRANES

00: -

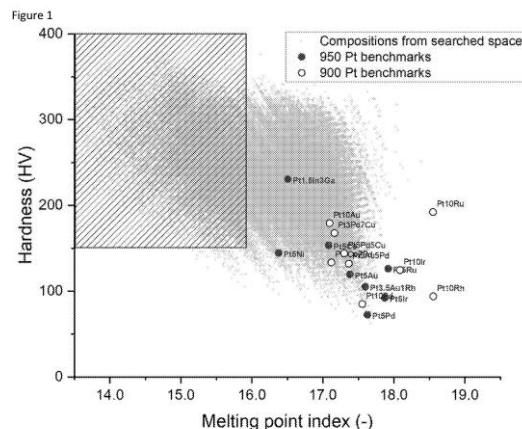
The present disclosure relates to an acid-base polymer blend membrane comprising at least one first polymer exhibiting acidic groups (A) and at least one second polymer exhibiting basic groups (B), wherein the molar ratio of acidic groups A / basic groups B in the acid-base polymer blend membrane

is at least 1 / 0.25. Furthermore, the present disclosure relates to a cell membrane comprising a support structure and an acid-base polymer blend membrane, wherein the acid-base polymer blend membrane is impregnated on the support structure. Said cell membrane can be used in an electrodialysis cell, in a fuel cell, in a PEM electrolyzer, or in a redox flow battery, preferably in a redox flow battery.



21: 2023/03454. 22: 2023/03/09. 43: 2024/02/05  
51: A44C; C22C  
71: Anglo Platinum Marketing Limited  
72: TURK, Andrej, CLARK, John William Gordon,  
FRATER, Georgina Catherine  
33: GB 31: 2015742.6 32: 2020-10-05  
**54: A PLATINUM ALLOY COMPOSITION**  
00: -

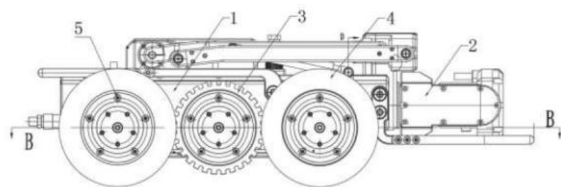
A platinum alloy composition consisting, in weight percent, of: 0.0 to 10.0 gold, 0.0 to 5.0 cobalt, 0.0 to 10.0 copper, 0.0 to 7.0 iron, 0.0 to 4.0 gallium, 0.0 to 3.0 indium, 0.0 to 5.0 iridium, 0.0 to 10.0 manganese, 0.0 to 7.0 nickel, 0.0 to 15.0 palladium, 0.0 to 5.0 rhenium, 0.0 to 5.0 rhodium, 0.0 to 10.0 ruthenium, 0.0 to 3.0 tin, 85.0 or more platinum and incidental impurities, wherein two or more of gallium, indium and tin are present in an amount of 0.1 or more, wherein the following equation is satisfied in which  $W_{Co}$ ,  $W_{Cu}$ ,  $W_{Fe}$ ,  $W_{Ga}$ ,  $W_{In}$ ,  $W_{Ni}$ ,  $W_{Pd}$ ,  $W_{Sn}$ ,  $W_{Rh}$ ,  $W_{Ru}$ ,  $W_{W}$ ,  $W_{Au}$ ,  $W_{Pt}$ ,  $W_{Re}$ , and  $W_{Mn}$  are the weight percent of cobalt, copper, iron, gallium, indium, nickel, palladium, tin, rhodium, iridium, gold, ruthenium, rhenium, and manganese in the alloy respectively  $60 + W_{Pd} * 2.5 + W_{Rh} * 3.4 + W_{Ru} * 6.455 + W_{Au} * 11.93 + W_{Ru} * 13.241 + W_{Co} * 14.328 + W_{Re} * 16.6 + W_{Ni} * 16.9 + W_{Mn} * 18.48 + W_{Fe} * 18.69 + W_{Pt} * 21.879 + W_{Ni} * 29 + W_{Sn} * 28.207 + W_{Ga} * 42.379 \geq 150$  and wherein one of the following conditions is satisfied in which  $W_{Co}$ ,  $W_{Cu}$ ,  $W_{Fe}$ ,  $W_{Ga}$ ,  $W_{In}$ ,  $W_{Ni}$ ,  $W_{Pd}$ ,  $W_{Sn}$ ,  $W_{Mn}$ ,  $W_{Ru}$ ,  $W_{Ir}$ ,  $W_{Rh}$ ,  $W_{Au}$ ,  $W_{Pt}$  and  $W_{Re}$  are the weight percent of cobalt, copper, iron, gallium, indium, nickel, palladium, tin, manganese, ruthenium, iridium, rhodium, gold, platinum and rhenium in the alloy respectively  $- 0.1028 * W_{Co} - 0.1201 * W_{Cu} - 0.2113 * W_{Fe} - 0.3368 * W_{Ga} - 0.1125 * W_{In} - 0.1639 * W_{Ni} - 0.015 * W_{Pd} - 0.1959 * W_{Sn} + 17.276261 - 0.20 * W_{Mn} + 0.0678 * W_{Ru} + 0.035 * W_{Ir} + 0.045 * W_{Rh} - 0.059 * W_{Au} + 0.066 * W_{Re} \leq 16.0$  when  $W_{Pt} < 95.0$  and  $- 0.1028 * W_{Co} - 0.1201 * W_{Cu} - 0.2113 * W_{Fe} - 0.3368 * W_{Ga} - 0.1125 * W_{In} - 0.1639 * W_{Ni} - 0.015 * W_{Pd} - 0.1959 * W_{Sn} + 17.276261 - 0.20 * W_{Mn} + 0.0678 * W_{Ru} + 0.035 * W_{Ir} + 0.045 * W_{Rh} - 0.059 * W_{Au} + 0.066 * W_{Re} \leq 16.6$  when  $W_{Pt} \geq 95.0$  and wherein the following equations are satisfied in which  $W_{Co}$ ,  $W_{Cu}$ ,  $W_{Fe}$ ,  $W_{Ga}$ ,  $W_{In}$ ,  $W_{Ni}$ ,  $W_{Pd}$ ,  $W_{Sn}$ , and  $W_{Au}$  are the weight percent of cobalt, copper, iron, gallium, indium, nickel, palladium, tin, and gold in the alloy  $0.35W_{Au} + 0.6W_{Sn} + 0.6W_{In} + W_{Ga} \geq 3.75$   $W_{Co} + W_{Pd} + W_{Fe} + W_{Ni} + W_{Cu} \geq 1.0$   $W_{Sn} + W_{Au} + W_{Ga} \geq 2.25$ .



21: 2023/03461. 22: 2023/03/10. 43: 2024/03/27  
51: E21D  
71: ZHENGZHOU JIUTAI TECHNOLOGY CO.,LTD  
72: Xinheng Wu, Zhe Li  
33: CN 31: 202211561294.6 32: 2022-12-07  
**54: WHEELED DETECTION ROBOT FOR  
UNDERGROUND PIPELINE**  
00: -

The present disclosure provides a wheeled detection robot for an underground pipeline, including a shell, a shot disposed at a front end of the shell, a height-regulating mechanism connected to the shot, roller assemblies disposed at two sides of the shell respectively and two groups of transmission assemblies disposed in the shell and used to drive the two groups of roller assemblies respectively; the shell includes a car body and a top cover disposed on the car body, a sealing groove is disposed above a side wall of the car body, and a sealing block is disposed at a position where a bottom of the top cover corresponds to the sealing groove; and an inflating valve for inflating and deflating is disposed on the top cover. In the present disclosure, the whole air-tightness of the robot is improved by setting the static sealing and dynamic sealing at the same time, and air inflation is performed inside the shell for pressure maintaining, so as to protect components inside the shell; and the height of the shot is regulated by disposing the height-regulating mechanism, so that the shot may detect positions of different heights of the pipeline more clearly.





21: 2023/03474. 22: 2023/03/09. 43: 2024/04/02

51: G01J

71: ARCELORMITTAL

72: Gwenaël LE NOC, Morgan FERTE

33: IB 31: PCT/IB2020/059760 32: 2020-10-16

#### 54: METHOD FOR ESTIMATING THE TEMPERATURE AND THE OXIDE THICKNESS OF A STEEL STRIP

00: -

A method for estimating the oxide thickness and the temperature of a heated steel strip, undergoing a heat treatment performed at a temperature from 100°C to 1100°C, comprising the steps of: 1. Measuring at least two radiation intensities at different wavelengths, in a range from 1 to 5  $\mu\text{m}$ , emitted by said heated steel strip, 2. Estimating the temperature of said heated steel strip,  $T_{\text{ESTIMATED}}$ , based on - said at least two measured radiation intensities and - a reference radiation intensity for at least a reference wavelength, emitted by a reference steel strip having a determined oxide layer thickness, 3. Estimating the emissivity coefficient of said heated steel strip,  $\epsilon_{\text{ESTIMATED}}$ , using at least one of said measured radiation intensities and the estimated temperature,  $T_{\text{ESTIMATED}}$ , 4. Estimating the oxide thickness,  $Ox_{\text{ESTIMATED}}$ , of said heated steel strip using said estimated emissivity,  $\epsilon_{\text{ESTIMATED}}$ .

Measuring at least two radiation intensities at different wavelengths, in a range from 1 to 5  $\mu\text{m}$ , emitted by said heated steel strip



Estimating the temperature of said steel strip,  $T_{\text{ESTIMATED}}$ , based on

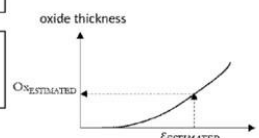
- said at least two measured radiation intensities and
- at least two reference radiation intensity and at least two reference emissivity, at different wavelength, of a reference steel strip having a known temperature for at least N oxide layer thickness from 0 to 200 nm,

$$C_T(T) = \lambda * \left( \ln \left[ \frac{\text{Intensity}(T, \lambda, Ox_{TH})}{\text{Intensity}(T_{REF}, \lambda_{REF}, 0)} \right] - \ln \left[ \frac{\text{Emissivity}(\lambda, Ox_{TH})}{\text{Emissivity}(\lambda_{REF}, 0)} \right] \right)$$

Estimating the emissivity coefficient of said heated steel strip,  $\epsilon_{\text{ESTIMATED}}$ , using at least one of said measured radiation intensities and the estimated temperature,  $T_{\text{ESTIMATED}}$

$$\epsilon_{\text{ESTIMATED}} = \frac{\ln(\lambda_1, Ox_{TH})}{L(\lambda_1, T_{\text{ESTIMATED}})}$$

Estimating the oxide thickness,  $Ox_{\text{ESTIMATED}}$ , of said heated steel strip based on the said estimated emissivity,  $\epsilon_{\text{ESTIMATED}}$



21: 2023/03490. 22: 2023/03/10. 43: 2024/01/31

51: B01D; C22B

71: Global Morpho Pharma

72: KOZLITIN, Evgeiy Anatolevich, MILYUTIN, Vitaliy Vitalevich, FIRSOVA, Lyubov Aleksandrovna, HARITONOV, Oleg Viktorovich, LOGUNOV, Mihail Vasilevich

33: RU 31: 2020130005 32: 2020-09-11

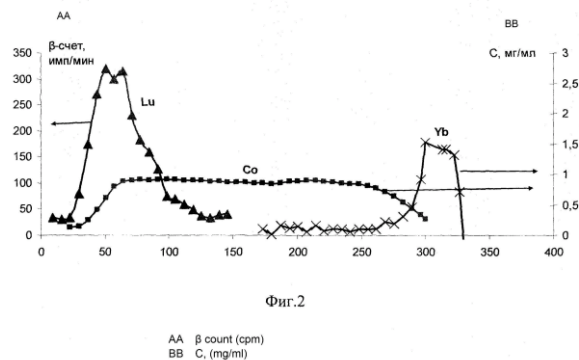
#### 54: METHOD FOR SEPARATING LUTETIUM AND YTTERBIUM USING CHROMATOGRAPHY

00: -

The invention relates to the field of separating rare earth elements by chromatography. The claimed method for separating lutetium and ytterbium from acidic solutions resulting from the recycling of irradiated ytterbium-176 targets is carried out using ion exchange chromatography. Ion sorption is performed on a sulphonic cation resin in copper or nickel form, and lutetium and ytterbium are eluted using a solution of a chelator at elevated temperature with the aid of a system consisting of at least two series connected columns of decreasing diameter, filled with a sulphonic cation resin. The separation of ytterbium and lutetium is carried out in the presence of a bivalent ion of a stable intercalator element selected from the group consisting of cobalt, lead or zinc, in an amount in mEq that is equal to not less than 80% of the total capacity of the last column in the direction of travel of the solution. A solution of ethylenediaminetetraacetic acid or nitrilotriacetic acid is used as the eluent. The technical result is that of increasing the degree of chromatographic separation of lutetium and ytterbium from acidic solutions



resulting from the recycling of ytterbium-176 targets, including targets having a mass greater than 10 g, as well as expanding the range of methods available for separating the aforesaid components.



21: 2023/03527. 22: 2023/03/13. 43: 2024/04/02

51: E21B

71: STUMATEC AG

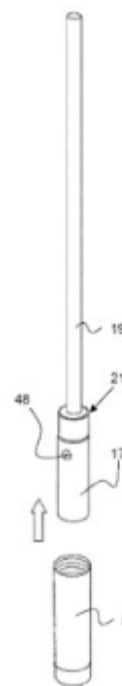
72: Daniel STUDER

33: CH 31: 01240/20 32: 2020-09-30

#### **54: DRILLING SYSTEM FOR RECOVERING VIRTUALLY INTACT DRILL CORES FROM LOOSE TO SOLID GROUND**

00: -

The apparatus is operated with a conventional rotary drive with a pile driver hammer. The torque and the blows of the drill head are transmitted to a drilling starting pipe (8) with a drill bit. Within the rotating starting pipe (8) there is a non-rotating sleeve (17). It is applied at the bottom to the inner side of the drill bit rotating beneath it. As a particular feature, the sleeve (17) is connected in terms of compressive and tensile force via a sleeve adapter (21) to axially successive parts that are rotatable with respect to one another and a pressurizing, flushing and recovering pipe DSB (19), connected to said parts, with the rotating drill head. The DSB (19) rotates together with the drill head and the drill pipe, and the sleeve adapter (21) connects to the non-rotating sleeve (17). With the DSB, first of all the sleeve (17) is pressurized from above, secondly flushing is effected, in that the flushing water for the bore is guided in the DSB (19) and is pressed outwardly out of the sleeve (17), and thirdly the recovery of the sleeve (17) is enabled, for an approximately intact drilling sample.



21: 2023/03554. 22: 2023/03/14. 43: 2024/02/06

51: A61B

71: ECHOSENS

72: AUDIERE, STÉPHANE, BASTARD, CÉCILE, LOREE, HUGO, MIETTE, VÉRONIQUE, SANDRIN, LAURENT

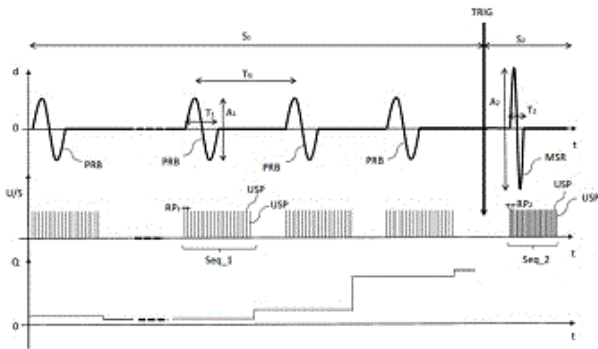
33: US 31: 17/695,053 32: 2022-03-15

33: EP 31: 22305298.6 32: 2022-03-15

#### **54: ELASTOGRAPHY DEVICE AND METHOD**

00: -

An elastography device comprising: a probe that comprises a protruding part to be applied against the body of a subject, a low frequency vibrator arranged to move the protruding part, at least one ultrasound emitter and one ultrasound receiver; and an electronic unit. The electronic unit is adapted to alternatively control the elastography device so that it operates a) in a guidance mode (S1) to determine whether the probe is correctly positioned in front of a region of the body to be probed to carry out a measurement of a mechanical property of the probed region and b) in a measurement mode (S2). In the guidance mode, the vibrator delivers a plurality of successive probing pulses (PRB), each being a transient, low frequency mechanical pulse, and the electronic unit determines a propagation quality indicator (Q) representative of an aptitude of the probed region to transmit the probing pulse.



21: 2023/03806. 22: 2023/03/24. 43: 2024/04/03  
51: H02M  
71: HARBIN INSTITUTE OF TECHNOLOGY,  
SHENZHEN

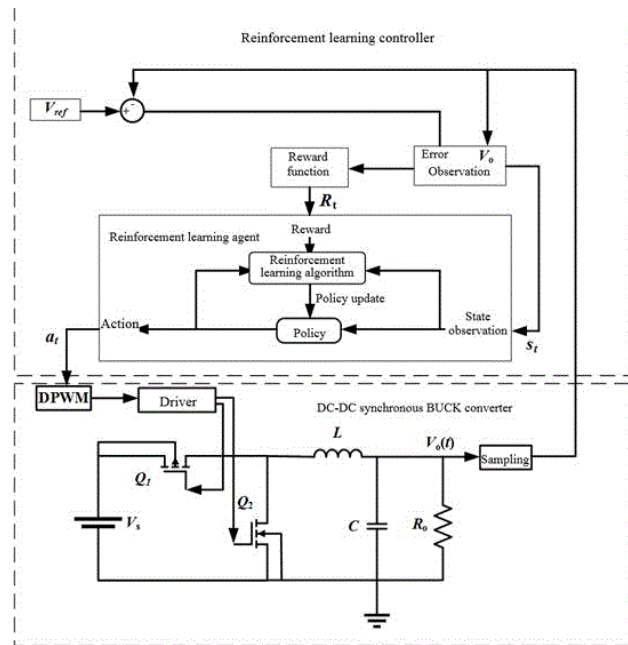
72: YE Jian, GUO Huanyu

33: CN 31: 2023101671905 32: 2023-02-27

#### 54: DC-DC CONVERTER CONTROL METHOD BASED ON TD3 REINFORCEMENT LEARNING ALGORITHM

00: -

The invention discloses a DC-DC converter control method based on TD3 reinforcement learning algorithm, which comprises the following steps: acquiring a state observation vector based on a DC-DC converter; constructing an reinforcement learning controller model, wherein the reinforcement learning controller model comprises an reinforcement learning agent and a reward module, and inputting the state observation vector into the reinforcement learning agent to obtain an action and form a new state observation vector; based on the behavior, the reward module obtains an instant reward; updating the parameters of the reinforcement learning agent based on the instant reward until convergence to obtain a trained reinforcement learning controller model; realizing the control of DC-DC converter based on the trained reinforcement learning controller model; the invention can effectively improve the dynamic response performance of the converter.



21: 2023/03815. 22: 2023/03/24. 43: 2024/04/02  
51: C23C

71: ARCELORMITTAL

72: Eric JACQUESON, Jean-Michel MATAIGNE,

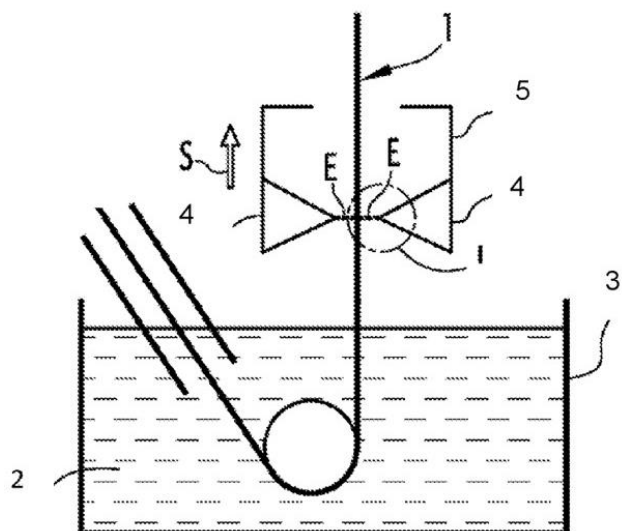
Larissa AGRIZZI RONQUETI, Marine KIEFFER

33: IB 31: PCT/IB2020/060737 32: 2020-11-16

#### 54: A METHOD FOR MANUFACTURING A STEEL SHEET WITH A ZNAlMG COATING, CORRESPONDING COATED STEEL SHEET, PART AND VEHICLE

00: -

The invention relates to a method for manufacturing a steel sheet provided with a coating comprising from 0.80 to 1.40wt.% of Al, from 0.80 to 1.40wt.% of Mg, unavoidable impurities and optionally one or more additional elements selected from Si, Sb, Pb, Ti, Ca, Mn, Sn, La, Ce, Cr, Zr or Bi, the weight content of each additional element in the coating being less than 0.3%, the remainder being Zn, the outer surface of the coated steel sheet having a waviness Wa0.8 before skin-pass of less than or equal to 0.50  $\mu\text{m}$ ; the coated steel sheet obtained by this method; the part obtained by deformation of a steel sheet and a land motor vehicle comprising a body, the body comprising the part.



21: 2023/03818. 22: 2023/03/24. 43: 2024/03/07

51: B60R; B60W

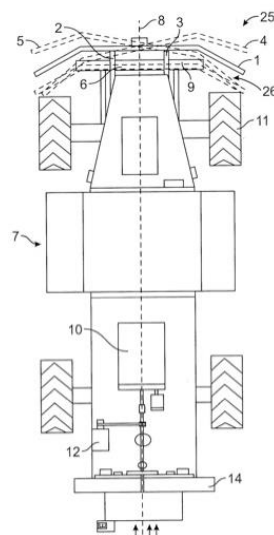
71: GUSS AUTOMATION LLC

72: CRINKLAW, David, SCHAPANSKY, Chase, THOMPSON, Gary

**54: SAFETY BUMPER ASSEMBLY AND ROBOTIC VEHICLE COMPRISING THE SAME**

00: -

A safety bumper assembly for a vehicle shutting off a vehicle engine when the vehicle hits an obstacle, particularly an autonomous vehicle used for agricultural purposes. The assembly includes bumper shafts holding a bumper bar at a distance from a support structure of the vehicle and shuts off the vehicle engine in such fashion that the vehicle comes to a full stop before the bumper has reached its most inward position closer to the vehicle body. A vehicle equipped with the safety bumper assembly has vehicle frame integrating a support structure of the safety bumper assembly.



21: 2023/03860. 22: 2023/03/27. 43: 2024/04/02

51: B01L; C12Q

71: MIDGE MEDICAL GMBH

72: Markus RIESTER, Michael DIEBOLD, Manfred WEIDMANN, Anke KURRECK, Ulf THIELE

33: EP 31: 20201885.9 32: 2020-10-14

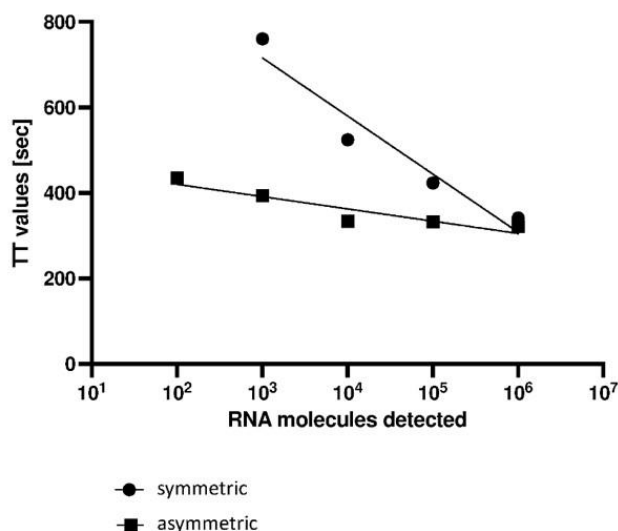
33: EP 31: 20204790.8 32: 2020-10-29

33: EP 31: 20206553.8 32: 2020-11-09

**54: ISOTHERMAL NUCLEIC ACID AMPLIFICATION METHODS FOR POINT-OF-NEED DIAGNOSIS**

00: -

The present invention relates to a fast and optionally multiplexing or multimeric method for isothermal amplification of nucleic acids, including DNA and RNA. Particularly, the invention relates to diagnostic methods for rapidly diagnosing, for example, at least two infectious agents, or at least two different targets in the same infectious agent, in a biological probe of interest. The invention further relates to a handheld and portable diagnostic system for performing the amplification method in a laboratory as well as in a non-laboratory environment. Further provided are suitable enzyme sequences, kits and uses of the method and the system.



21: 2023/03869. 22: 2023/03/27. 43: 2024/02/05

51: B60T; B62B; B65G; C21B; F26B

71: Midrex Technologies, Inc.

72: LEWIS Jr., James Lloyd, VOELKER, Brian, ORLEANS, Lemuel

33: US 31: 63/092,015 32: 2020-10-15

#### **54: HBI SLOW COOLING SYSTEM AND METHOD**

00: -

A briquette cooling conveyor system includes an apron pan conveyor. The apron pan conveyor includes: an apron pan with openings adapted to drain water from the apron pan conveyor, an apron pan upper, carry strand, and an apron pan lower, return strand. The briquette cooling conveyor system further includes a carriage side flushing hopper positioned between the apron pan upper, carry strand and the apron pan lower, return strand, and the carriage side flushing hopper is configured to capture fines and water from the system.

21: 2023/03936. 22: 2023/03/29. 43: 2024/02/13

51: B60J; F24F

71: ROCK SOLID INDUSTRIES INTERNATIONAL (PTY) LTD

72: VOSS, Michael

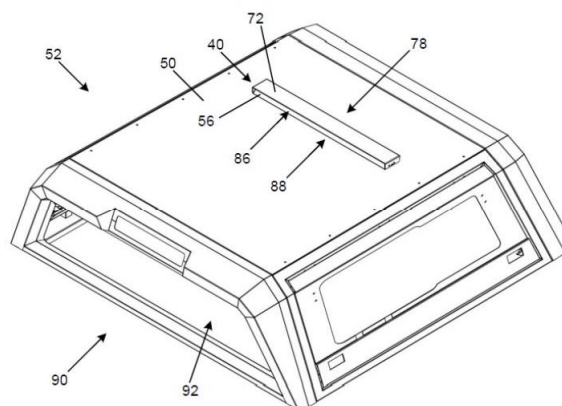
33: ZA 31: 2019/04021 32: 2019-06-21

#### **54: AN AIR VENT**

00: -

An air vent for a vehicle or vehicle canopy includes an external and an internal duct. The external duct has an inlet and an outlet. The height of the outlet is less than that of the inlet. The inlet and the outlet are arranged such that, in use, an uppermost point of the inlet is located above an uppermost point of the

outlet. The internal duct is in fluid communication with the external duct via one or more openings arranged in the internal duct or at a junction between the internal duct and the external duct. The internal duct is configured to be in fluid communication with an interior of the vehicle via a slot defined by the vehicle. The or each opening is arranged such that, in use, the uppermost point of the outlet of the external duct is located below a lowermost point of the or each opening.



21: 2023/04043. 22: 2023/03/31. 43: 2024/04/02

51: A61K; A61P

71: WÖRWAG PHARMA GMBH & CO.KG

72: Fritz WÖRWAG, Marcus WÖRWAG

33: EP 31: 20200644.1 32: 2020-10-07

#### **54: BIOFACTORS FOR THE TREATMENT AND PROPHYLAXIS OF DEMENTIA**

00: -

The invention relates to a product for the treatment and prophylaxis of dementia (disorders) and mitochondrial dysfunction, in particular a drug or food supplement, and to its use, said product containing a combination of biofactors which comprise at least magnesium orotate and folic acid or folates.

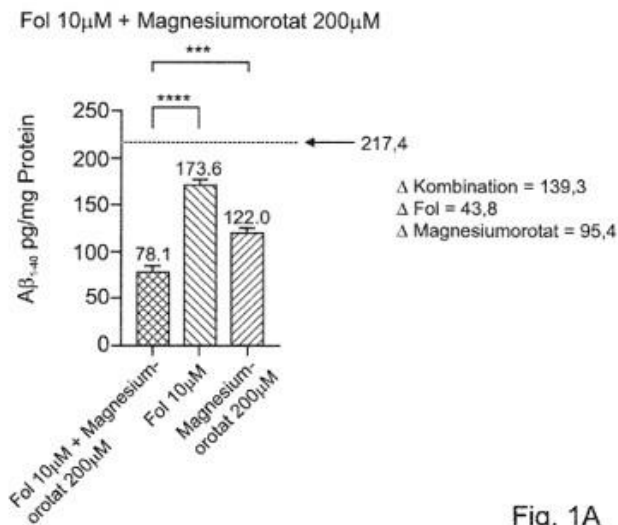


Fig. 1A

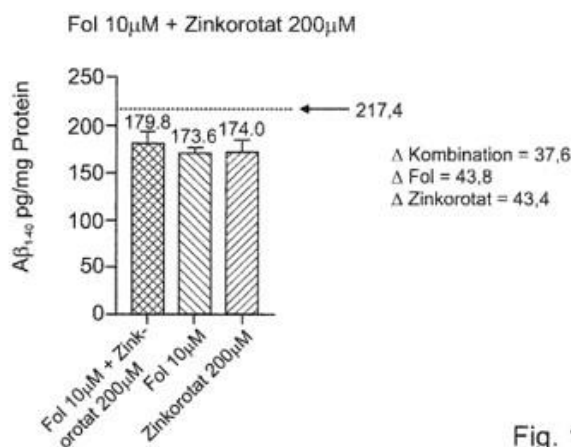


Fig. 1B

Magnesiumorotat = Magnesium orotate  
 Kombination = Combination  
 Zinkorotat = Zinc orotate  
 Protein = Protein

and second reagents (HC, PS); a gas discharge circuit (18) connected to the reactor cylinder; a piston (14) inside the reactor cylinder, actuated from a first end of the reactor cylinder to move axially inside the cylinder to compress any byproduct against the second end of the cylinder and to expel any gas through the gas discharge circuit (18), wherein the gas discharge circuit is connected to the cylinder near the second end of the cylinder; and a closure device (22) at the second end of the cylinder, having a closed position sealing the second end of the cylinder, and an open position fully freeing the second end of the cylinder so that any byproduct in the cylinder can be shifted out by the piston (14).

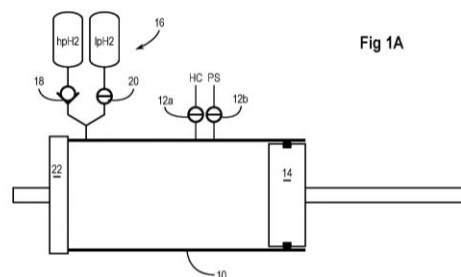


Fig 1A

21: 2023/06014. 22: 2023/06/06. 43: 2024/02/07  
51: A24B

71: EARL JONES, Robert

72: EARL JONES, Robert

#### 54: METHOD OF PROCESSING GREEN TOBACCO LEAVES INTO CUT TOBACCO

00: -

This invention belongs to the tobacco production and processing sector, and more specifically provides a method for producing cut rag tobacco for cigarettes and other tobacco products deriving from farm produced green tobacco, through the innovative integration of prior technology conventional GLT and Primary processes, with resultant lower investment and operational costs. Currently the resultant generated cut rag tobacco has improved filling capacity, commercially acceptable cigarette maker runnability plus individual cigarette technical quality parameters and maintenance of the original tobacco taste at least equal to conventional current industry technology.

21: 2023/06216. 22: 2023/06/13. 43: 2024/02/01  
51: H04N

21: 2023/05599. 22: 2023/05/24. 43: 2024/02/21

51: B01J; C01B

71: Hysilabs, SAS

72: MUSSOT, Jean-Luc, LOME, Vincent

33: EP(FR) 31: 20204981.3 32: 2020-10-30

#### 54: SYSTEM FOR ON-DEMAND PRODUCTION OF HYDROGEN FROM A CARRIER FLUID AND DISPOSAL OF SOLID BYPRODUCTS

00: -

A device is provided for controlled production of a gas from first and second fluid reagents that, when mixed, produce the gas and a byproduct, the device comprising a reactor cylinder (10); inlets (12a, 12b) configured to supply the reactor cylinder with the first



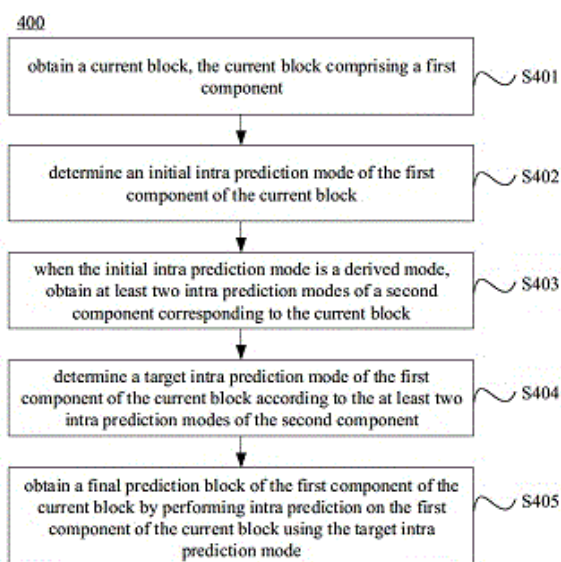
71: GUANGDONG OPPO MOBILE  
TELECOMMUNICATIONS CORP., LTD.

72: WANG, FAN

#### **54: VIDEO CODING METHOD AND SYSTEM, VIDEO ENCODER, AND VIDEO DECODER**

00: -

A video coding method and system, a video encoder, and a video decoder is provided in the disclosure. When an initial intra prediction mode of a first component of a current block is determined as a derivation mode, at least two intra prediction modes of a second component corresponding to the current block are obtained. A target intra prediction mode of the first component of the current block is determined according to the at least two intra prediction modes of the second component. Intra prediction is performed on the first component of the current block by using the target intra prediction mode. In this way, the intra prediction mode of the first component of the current block can be determined simply and efficiently.



21: 2023/06360. 22: 2023/06/19. 43: 2024/03/20

51: C07D; A61P

71: GILEAD SCIENCES, INC.

72: CHU, HANG, GONZALEZ BUENROSTRO, ANA Z., GUO, HONGYAN, HAN, XIAOCHUN, HURTLEY, ANNA E., JIANG, LAN, LI, JIAYAO, LIN, DAVID W., MITCHELL, MICHAEL L., NADUTHAMBI, DEVAN, SCHWARZWALDER, GREGG M., SZEWCZYK, SUZANNE M., VON BARGEN, MATTHEW J., WU, QIAOYIN, YANG, HONG, ZHANG, JENNIFER R.

33: US 31: 63/139,237 32: 2021-01-19

33: US 31: 63/190,461 32: 2021-05-19

#### **54: SUBSTITUTED PYRIDOTRIAZINE COMPOUNDS AND USES THEREOF**

00: -

The present disclosure relates generally to certain tricyclic compounds, pharmaceutical compositions comprising said compounds, and methods of making said compounds and pharmaceutical compositions. The compounds of the disclosure are useful in treating or preventing human immunodeficiency virus (HIV) infection.

21: 2023/06521. 22: 2023/06/23. 43: 2024/02/05

51: A61K; A61P

71: Incyte Corporation

72: SMITH, Paul, ZHANG, Zheng, PARKER, Melissa, FIDGE, James

33: US 31: 63/121,531 32: 2020-12-04

#### **54: JAK INHIBITOR WITH A VITAMIN D ANALOG FOR TREATMENT OF SKIN DISEASES**

00: -

The present disclosure relates to topical treatment of skin diseases, such as psoriasis, atopic dermatitis, alopecia, vitiligo, Reiter's syndrome, pityriasis rubra pilaris, epidermolysis bullosa simplex, palmoplantar keratoderma, pachyonychia congenita, steatocystoma multiplex, cutaneous lichen planus, cutaneous T-cell lymphoma, hidradenitis suppurativa, contact dermatitis, ichthyosis, and a disorder of keratinization, using (a) a JAK inhibitor, or a pharmaceutically acceptable salt thereof, and (b) vitamin D3, a vitamin D3 analog, or a pharmaceutically acceptable salt thereof.

21: 2023/06523. 22: 2023/06/23. 43: 2024/02/05

51: B02C; B03D

71: Kaakkois-Suomen Ammattikorkeakoulu Oy

72: KUOPANPORTTI, Hannu, LINNANEN, Teijo

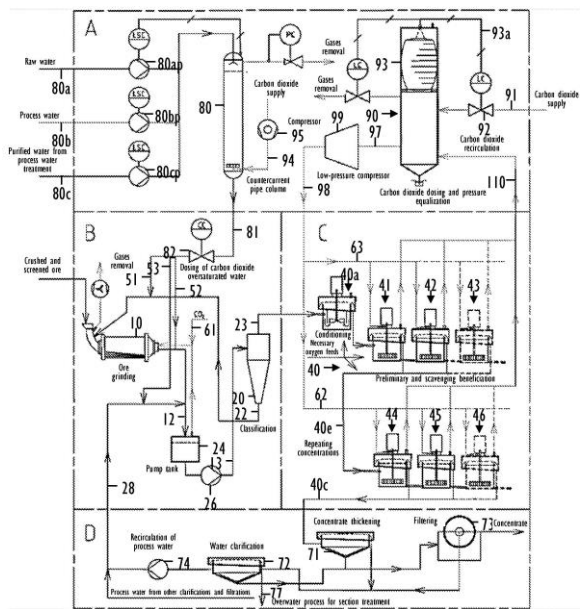
33: FI 31: 20206294 32: 2020-12-14

#### **54: METHOD AND APPARATUS FOR SEPARATING VALUABLE MINERALS FROM ORE**

00: -

The invention relates to a method for a beneficiation process of minerals wherein: ore which contains valuable minerals is comminuted; a classification is performed in which ore of too large a particle size is returned to a comminuting step, and the ore of the desired particle size is directed onwards to the following step of the method, where the comminuted ore is beneficiated by flotation for separating valuable minerals; and, in order to displace oxygen,

carbon dioxide oversaturated water and/or carbon dioxide gas is fed to at least one of the following process steps: ore comminution, classification of comminuted ore, intermediate step between comminution and classification, feeding of the comminution and/or classification.



21: 2023/06611. 22: 2023/06/27. 43: 2024/01/31  
51: C12N; C12Q

71: Institute of Medicinal Plant Development,  
Chinese Academy of Medical Sciences  
72: SONG, Jingyuan, QI, Guihong, XU, Wenjie,  
HAO, Lijun, GAN, Yutong, XIN, Tianyi

#### 54: METHOD FOR IDENTIFYING SPECIES OF EUKARYOTE ON BASIS OF WHOLE GENOME ANALYSIS, AND USE THEREOF

00: -  
Disclosed in the present application are a method for identifying the species of a eukaryotic sample on the basis of whole genome analysis, and the use thereof, wherein the species identification of a sample to be detected is achieved by means of a species-specific target sequence obtained by screening. The species identification method of the present invention has good specificity, high sensitivity and good repeatability, and can achieve rapid species identification without relying on large-scale professional instruments.

21: 2023/06749. 22: 2023/06/30. 43: 2024/03/04

51: G07G; G06Q

71: V2 FAMILY TRUST

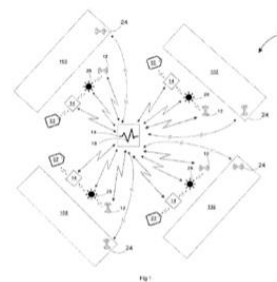
72: VISSER, Floris Nefdt, VISSER, Ruann, VISSER, Ruben

33: ZA 31: 2021/01575 32: 2021-03-09

#### 54: SERVICE MANAGEMENT

00: -

The invention provides for a service management system, which includes a monitoring device associated with a service zone, the monitoring device operable to detect the presence of a customer at the service zone, and a checking device operable to detect when a service attendant is present at the particular service zone. The system also includes a processing unit in communication with the monitoring device and checking device, to record service management data communicated from the checking and monitoring devices. The system further includes an indicator associated with a particular service zone, operable based on information received from any one or more of the checking devices, monitoring device and processing unit, to indicate a condition at the service zone.



21: 2023/06848. 22: 2023/07/05. 43: 2024/02/05

51: A61K; A61P; C07D

71: AstraZeneca AB

72: TERSTIEGE, Ina, SCHIESSER, Stefan, XUE, Yafeng, CHANG, Hui-Fang, BERGGREN, Anna Ingrid Kristina

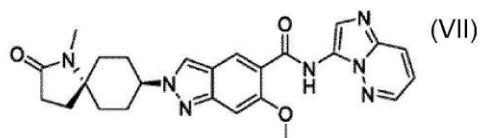
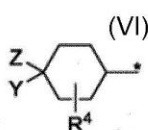
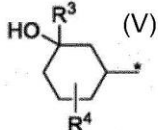
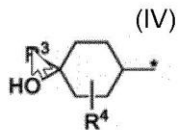
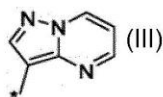
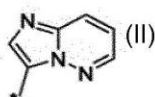
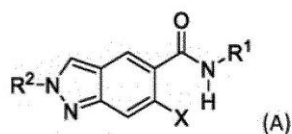
33: US 31: 63/199,160 32: 2020-12-10

#### 54: N-(IMIDAZO[1,2-B]PYRIDAZIN-3-YL)-1-CYCLOHEXYL-2H-INDAZOLE-5-CARBOXAMIDE AND N-(PYRAZOLO[1,5-A]PYRIMIDIN-3-YL)-1-CYCLOHEXYL-2H-INDAZOLE-5-CARBOXAMIDE DERIVATIVES AS IRAK4 INHIBITORS FOR THE TREATMENT OF ASTHMA

00: -

The present application relates to a compound of Formula (A), wherein R1 is selected from Formula (II) and Formula (III) and R2 is selected from Formula

(IV), Formula (V) and Formula (VI) as IRAK4 inhibitors for use in methods of treatment of e.g. asthma and chronic obstructive pulmonary disease (COPD), cancer, inflammatory diseases, and autoinflammatory/autoimmune diseases such as e.g. systemic lupus erythematosus, rheumatoid arthritis, myositis, Sjogren's syndrome, systemic sclerosis, gout, endometriosis, atopic dermatitis and psoriasis. Preferred compounds of the present invention are e.g.: • N-(imidazo[1,2-b]pyridazin-3-yl)-1-cyclohexyl-2H-indazole-5-carboxamide, • N-(pyrazolo[1,5-a]pyrimidin-3-yl)-1-cyclohexyl-2H-indazole-5-carboxamide, • N-(imidazo[1,2-b]pyridazin-3-yl)-1-azaspiro[4.5]decan-8-yl-2H-indazole-5-carboxamide, and • N-(pyrazolo[1,5-a]pyrimidin-3-yl)-1-azaspiro[4.5]decan-8-yl-2H-indazole-5-carboxamide derivatives. An exemplary compound of the present invention is e.g. N-(imidazo[1,2-b]pyridazin-3-yl)-6-methoxy-2-((5r,8r)-1-methyl-2-oxo-1-azaspiro[4.5]decan-8-yl)-2H-indazole-5-carboxamide (Example 1): Formula (VII).



21: 2023/06869. 22: 2023/07/06. 43: 2024/02/13  
51: G09F

71: SCREEN GRAPHICS CC

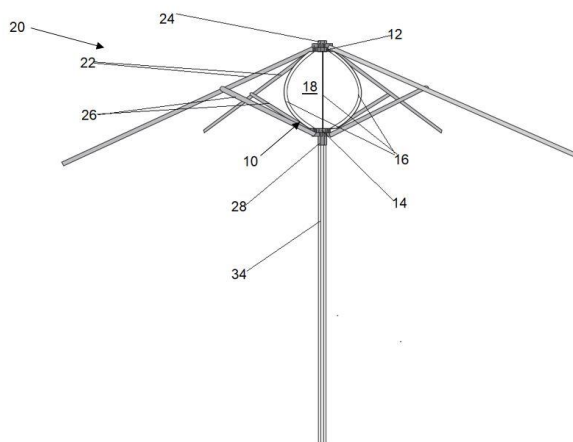
72: DE VILLIERS, Byron Allan

33: ZA 31: 2022/03946 32: 2022-04-07

**54: PARASOL BANNER**

00: -

The invention provides a collapsible banner for a parasol. The banner is configured to be centrally mounted beneath the parasol canopy and comprises a frame, comprising a top and a base and three or more spaced apart resiliently flexible rods extending between the top and the base; and a cover extendable about the frame. Movement of the base of the frame towards the top of the frame causes outward flexion of the rods under pressure to expand the banner and the cover, and movement of the base of the frame away from the top of the frame pulls the rods straight to collapse the banner. Illuminating means may be housed within the banner.



21: 2023/06872. 22: 2023/07/06. 43: 2024/01/29  
51: H03F; H04B; H04L

71: Huawei Technologies Co., Ltd.

72: MESHCHERYAKOV, Alexey Vyacheslavovich, TAFINTSEV, Konstantin Stanislavovich, LARIONOV, Alexander Borisovich, SHEVCHENKO, Igor Vsevolodovich, KUKLEV, Konstantin Igorevich

**54: METHOD FOR IN-PHASE AND QUADRATURE IMBALANCE ESTIMATION AND COMMUNICATION APPARATUS**

00: -

The present disclosure relates to a method for In-phase and Quadrature (I/Q) imbalance estimation and a corresponding communication apparatus. The method involves using an adaptive filter in a loopback architecture of the communication apparatus to estimate and compensate a combined TX/RX frequency-dependent I/Q imbalance. The combined TX/RX frequency-dependent I/Q imbalance is estimated by using a reference signal

and two different phase shifts between a TX local oscillator (LO) signal and a RX LO signal. The resulting two estimates of the combined TX/RX frequency-dependent I/Q imbalance are used to calculate separately contributions made by a TX and a RX in the combined TX/RX frequency-dependent I/Q imbalance. By so doing, it is possible to estimate the combined TX/RX frequency-dependent I/Q imbalance without having to use additional external hardware. The calculated contributions may be then used to compensate the combined TX/RX frequency-dependent I/Q imbalance in a time domain.

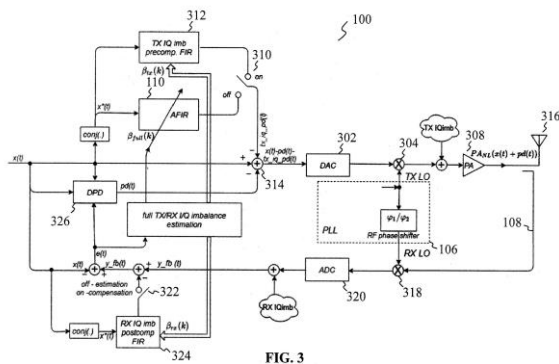


FIG. 3

21: 2023/06916. 22: 2023/07/07. 43: 2024/01/30  
51: G06N

71: Darktrace Holdings Limited

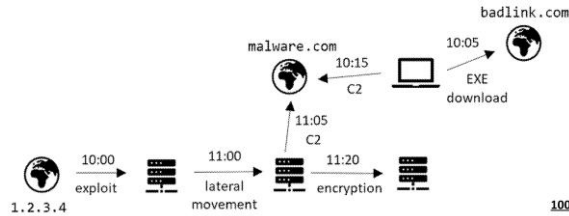
72: BAZALGETTE, Timothy Owen, CHAPMAN, Constance Alice

33: US 31: 63/135,394 32: 2021-01-08

#### 54: ARTIFICIAL INTELLIGENCE BASED ANALYST AS AN EVALUATOR

00: -

Methods, systems, and apparatus are disclosed for an Artificial Intelligence based cyber security system. An Artificial Intelligence based cyber analyst can make use of a data structure containing multiple tags to assist in creating a consistent, expanding modeling of an ongoing cyber incident. The Artificial Intelligence based cyber analyst can make use of a cyber incident graph database when rendering that incident to an end user. The Artificial Intelligence based cyber analyst can also be used as a mechanism to evaluate the quality of the alerts coming from 3rd parties' security tools both when the system being protected by the cyber security appliance is not actually under attack by a cyber threat as well as during an attack by a cyber threat.



21: 2023/06941. 22: 2023/07/10. 43: 2024/03/11  
51: H04L

71: Dr. Smitha Rajagopal, Dr Hareesh K. S., Dr.

Poornima Panduranga Kundapur, Dr. R. Suchithra

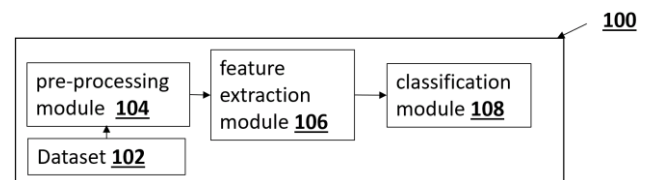
72: Dr. Smitha Rajagopal, Dr Hareesh K. S., Dr.

Poornima Panduranga Kundapur, Dr. R. Suchithra

#### 54: A NETWORK INTRUSION DETECTION CLASSIFICATION SYSTEM BASED ON AZURE MACHINE LEARNING

00: -

A Network Intrusion detection classification system (100) based on azure machine learning, comprises of: a dataset (102) comprising of continuous, discrete and symbolic features in varied ranges of data across a network; a pre-processing module (104) for enhancing the dataset (102) upon removing noise, wherein logarithmic scaling is applied to decrease the range of values; a feature extraction module (106) for extracting a plurality of features having a maximum and a minimum value, wherein the features are prioritized by feature scoring; and a classification module (108) for performing a multi-class classification based on azure machine learning technique, to detect type of the intrusion such as A (Analysis), B (Backdoor), D (Denial of service (DOS)), E (Exploits), F (Fuzzers), G (Generic), N (Normal), R (Reconnaissance), S (Shellcode) and W (Worms).



21: 2023/07016. 22: 2023/07/12. 43: 2024/02/21  
51: C23F; F24H

71: CATHTECT ENGINEERING (PTY) LTD.

72: RAATH, David John

33: ZA 31: 2022/07685 32: 2022-07-12

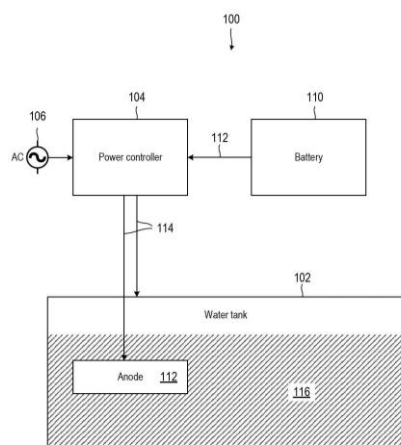
#### 54: A WATER HEATER PROTECTION SYSTEM

00: -

A water heater protection system includes a water tank to accommodate water, an electrical element



provided in the water tank to heat the water, and an electrical connection to an AC (Alternating Current) electricity source to power the element. The water heater protection system includes a power controller connected or connectable to the AC electricity source, the power controller configured to provide a controlled DC output and an anode provided inside the water tank, wherein the power controller is connected both to the anode and to the water tank to provide the anode and the water tank with controlled DC output, and wherein the anode is configured for impressed cathodic protection. The water heater protection system further includes a battery connected to the power controller, wherein the power controller is configured to be powered by the battery to produce the controlled DC output if the AC electricity source is unavailable.



21: 2023/07029. 22: 2023/07/12. 43: 2024/01/29  
51: H04W

71: PANASONIC INTELLECTUAL PROPERTY CORPORATION OF AMERICA

72: KANG, Yang, SUZUKI, Hidetoshi, SIM, Hong Cheng, Michael, TRAN, Xuan Tuong

33: SG 31: 10202100539Y 32: 2021-01-18

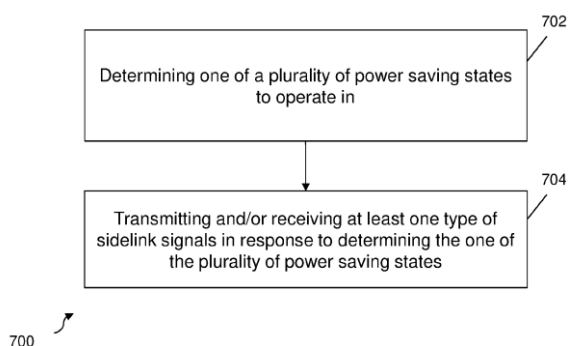
33: SG 31: 10202103195T 32: 2021-03-29

#### **54: COMMUNICATION APPARATUSES AND COMMUNICATION METHODS FOR OPERATING IN A POWER SAVING STATE**

00: -

The present disclosure provides communication apparatuses and communication methods for operating in a power saving state. The communication apparatuses comprising circuitry, which in operation, determines one of a plurality of

power saving states to operate in; and a transceiver, which in operation, transmit and/or receive at least one type of sidelink signals in response to determining the one of the plurality of power saving states.



21: 2023/07066. 22: 2023/07/13. 43: 2024/02/05

51: A61K; A61Q; C07C

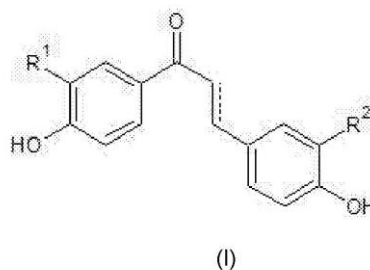
71: mesoestetic Pharma Group, S.L

72: MARTÍNEZ GUTIÉRREZ, Alfredo, BERTRAN JUNQUÉ, Alexandra, GONZÁLEZ RODRÍGUEZ, María del Carmen, PASCUAL DEL PRADO, Sergio, LUIS GARCÍA, Luís Shotze

#### **54: TYROSINASE-INHIBITING MOLECULES AND DERMOPHARMACEUTICAL COMPOSITION THAT INCLUDES THEM**

00: -

The present invention provides tyrosinase-inhibiting molecules of general formula (I) and a dermopharmaceutical or cosmetic composition that includes at least one of said tyrosinase-inhibiting molecules.



21: 2023/07112. 22: 2023/07/14. 43: 2024/01/29

51: B64F; G08G

71: ADB Safegate BV

72: ONA SELFA, Gregory, LE ROUX, Martin, JELU, André

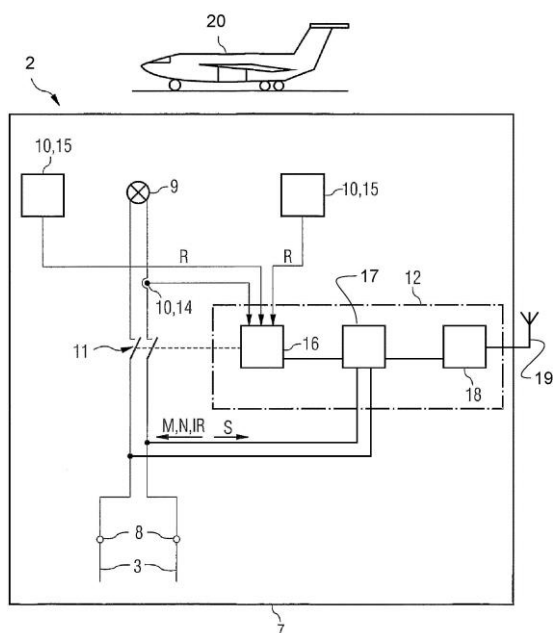
33: EP(BE) 31: 20214755.9 32: 2020-12-16



**54: AERODROME SIGNALLING SYSTEM WITH CELLULAR COMMUNICATION CAPABILITY**

00: -

Aerodrome signalling system (100), comprising a plurality of signalling units (2), each comprising at least one aerodrome signalling device (9, 10), and a central communication unit (4) configured for data communication with the plurality of signalling units. The plurality of signalling units (2) each comprise a wireless data communication device (18) configured for cellular data communication and at least one sensor device (15) configured to capture measurement data in relation to one or more of: an environmental condition, a meteorological condition, a presence of an object, a movement of an object and a status condition relating to the respective signalling unit other than a status condition of the respective at least one signalling device. The at least one sensor device (15) is configured to communicate the measurement data to the wireless data communication device for transmission via a cellular network.



21: 2023/07118. 22: 2023/07/14. 43: 2024/01/30  
51: A61L; G07F

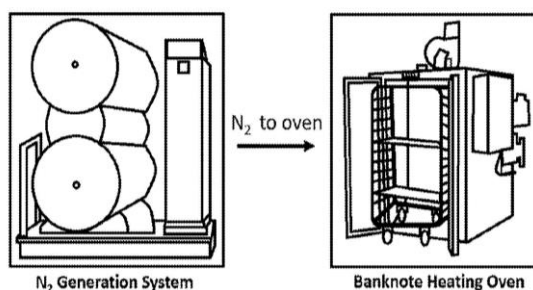
71: Spectra Systems Corporation  
72: LAWANDY, Nabil

33: US 31: 63/126,513 32: 2020-12-16

**54: HEAT TREATMENT OF BANKNOTES IN AN OXYGEN-FREE ENVIRONMENT**

00: -

A method and associated apparatus for disinfecting at least one banknote, each banknote including a substrate, visual data, and a security feature, including disposing the at least one banknote in an oxygen-free environment, and exposing the at least one banknote to a temperature and for a duration sufficient to disinfect the at least one banknote and not compromise the security feature and the visual data, where to disinfect the at least one banknote includes to significantly deactivate, kill, or eliminate one or more pathogens from the at least one banknote.



21: 2023/07233. 22: 2023/07/19. 43: 2024/02/05

51: B82Y; C10M; C10N

71: Graphene Manufacturing Group Ltd

72: NICOL, Craig, SCHEIWE, Timothy,  
NANJUNDAN, Ashok Kumar

33: AU 31: 2021900116 32: 2021-01-20

**54: ENHANCED LUBRICANT COMPOSITION**

00: -

Disclosed herein is a lubricant composition comprising a base oil or a fully formulated lubricant; and graphene nanoparticles derived from a carbon containing gas dispersed in the base oil or the fully formed lubricant.

21: 2023/07323. 22: 2023/07/24. 43: 2024/01/30

51: A61L; B07C; F24F; F41H; G08B

71: Dr. Vishal Sharma

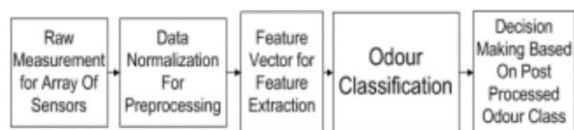
72: Dr. Vishal Sharma

**54: A SYSTEM OF ELECTRONIC NOSE FOR ODOUR DETECTION**

00: -

The present invention provides an electronic nose, which is an intelligent system for discrimination of odours and used to mimic the human nose of smell. Tin oxide semiconductor gas sensors are used for

the development of electronic nose. It employs an array of chemical gas sensors, a sample handling system and a pattern recognition system. These techniques allow the system for a high degree of selectivity and reversibility. The ideal gas sensor has properties like reversibility, selectivity, robustness, sensitivity and reliability. After signal processing and feature extraction, a unique 'smell print' of the substance is obtained for classification, concentration measurement and to judge the quality. The present invention disclosed the function of electronic nose, its applications and detecting the smell of particular volatile organic compounds like benzene, acetone and ethanol at different concentrations. The obtained characteristics and response from electronic nose indicate that it can be used for distinct applications like pharmaceuticals, defence and security industries.



21: 2023/07391. 22: 2023/07/25. 43: 2024/03/13  
51: B65G

71: TIANNENG BATTERY GROUP (ANHUI) CO., LTD.

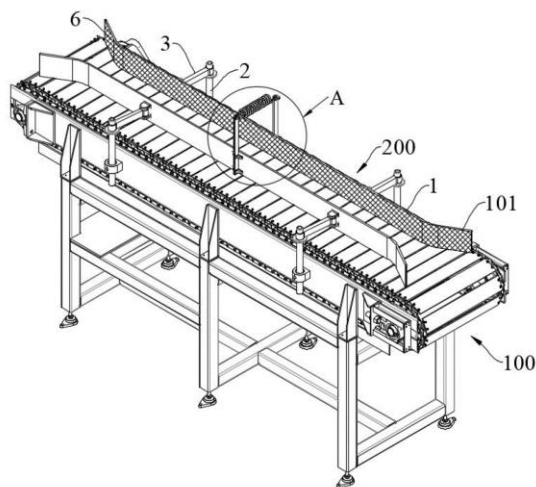
72: WANG, Jiaqing, JIN, Chuanjie, SUN, Tong, YUAN, Hui

#### 54: CONVEYOR LINE FOR CLEANING SURFACE DIRT OF BATTERIES

00: -

A conveyor line for cleaning surface dirt of batteries is provided, which relates to the field of battery production, including a conveyor line body and a cleaning mechanism installed on the conveyor line body, wherein the cleaning mechanism includes cleaning plates symmetrically installed on a surface of the conveyor line body, a plurality of installation assemblies used to fix the cleaning plates. Inner sides of the cleaning plates are respectively equipped with a wipe cloth for cleaning surface dirt on the battery. Further, a plurality of elastic components used to drive the cleaning plates on both sides to be close to each other are provided. This present disclosure is equipped with a cleaning mechanism on the conveyor line body, which includes cleaning plates symmetrically installed on

the surface of the line body, several installation assemblies used to fix the cleaning plates, and several elastic components used to drive the cleaning plates on both sides to be close to each other. When a battery pass between the two cleaning plates, several elastic components are capable to drive the two cleaning plates to press against two sides of the battery, adapting to cleaning dirt on the surface of batteries of different sizes, and it does not require manual adjustment, making it easy to use.



21: 2023/07397. 22: 2023/07/25. 43: 2024/01/31  
51: B29C

71: Tensar International Corporation

72: CAVANAUGH, Joseph, TYAGI, Manoj Kumar, BAKER, Daniel Mark, CURSON, Andrew, JENKINS, Tom-Ross, WALLER, Andrew Edward, GALLAGHER, Daniel John

33: US 31: 63/154,209 32: 2021-02-26

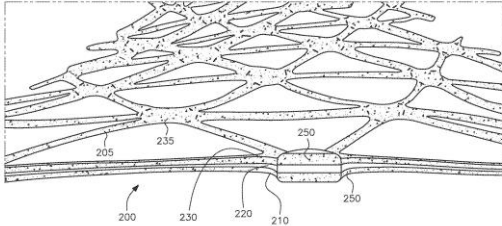
33: US 31: 63/154,588 32: 2021-02-26

#### 54: MULTILAYER INTEGRAL GEOGRIDS HAVING A CELLULAR LAYER STRUCTURE, AND METHODS OF MAKING AND USING SAME

00: -

A multilayer integral geogrid, including one or more cellular layers, has a plurality of oriented multilayer strands interconnected by partially oriented multilayer junctions with an array of openings therein. The multilayer integral geogrid having one or more cellular layers is produced from a coextruded or laminated multilayer polymer starting sheet. The integral geogrid has a multilayer construction, with at least one outer layer thereof having the cellular structure. By virtue of the cellular layer structure, the

multilayer integral geogrid provides for increased layer vertical compressibility under load, resulting in enhanced material properties that provide performance benefits to use of the multilayer integral geogrid to stabilize and strengthen soil, aggregates, or other particulate materials.



21: 2023/07434. 22: 2023/07/26. 43: 2024/01/29  
51: F16B; F16C

71: Kennametal Inc.

72: ANDREWS, Keith, HURLEY, Travis

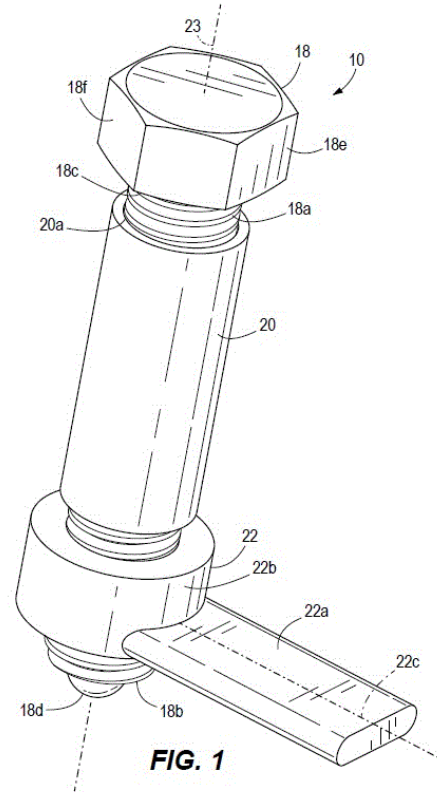
33: US 31: 17/815,560 32: 2022-07-27

#### **54: BUSHING PULLER ASSEMBLY**

00: -

A bushing puller assembly may include a bolt and a nut. The bolt may include a threaded shaft having first and second ends, a ball bearing disposed at the first end, and a head disposed at the second end.

The nut may be threadedly attached to the first end of the threaded shaft.



21: 2023/07446. 22: 2023/07/26. 43: 2024/01/29  
51: H02K

71: THOMPSON, Dick, KONIG, Derick, Wilhelm

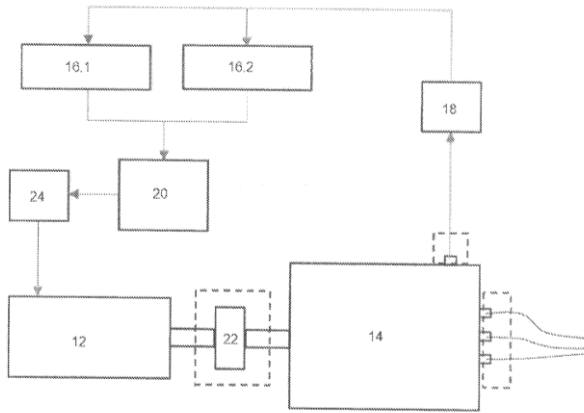
72: THOMPSON, Dick, KONIG, Derick, Wilhelm

33: ZA 31: 2021/08277 32: 2021-11-27

#### **54: ELECTRICITY GENERATING SYSTEM**

00: -

According to the invention there is provided an electricity generating system (10) which includes an electrically driven motor (12), the speed of which is controlled by a variable frequency drive (24) the electrically driven motor (12) operatively coupled to an alternator (14), the alternator (14) being configured to yield electrical energy in the form of alternating current (AC) output, and, direct current (DC) output, respectively, the AC output being fed into an external circuit, and the DC output being fed back into the electricity generating system (10) for energising a capacitor bank (16); and wherein the capacitor bank (16) is electrically connectable to the variable frequency drive (24) and thereby the electrically driven motor (12), for supplying electrical energy for driving the electrically driven motor (12).



10

21: 2023/07479. 22: 2023/07/27. 43: 2024/01/31

51: A01B; A01C; E02F; G01B

71: Ausplow Pty. Ltd.

72: PETRUCCIOLI, Aldo, BLIGHT, Christopher, BEACHAM, Raymond, LOVELL, Brett, RYAN, John William

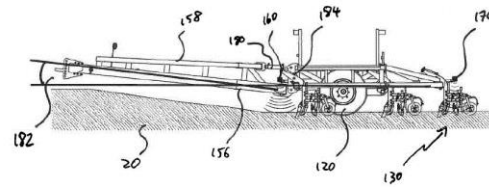
33: AU 31: 2022902126 32: 2022-07-28

#### 54: SEEDING TOOL

00: -

A seeding tool (100) for attachment to a vehicle (10) to be drawn through a soil bed (20) in a forward direction (30) for planting seeds in the soil bed (20) at a desired depth (40), the seeding tool (100) including: a frame (110) supported by a frame wheel (120) so that the frame (110) is pivotable about a wheel axis (122); a plough assembly (130) attached to a rear portion (114) of the frame (110), the plough assembly (130) including a seed boot (140) for planting seeds in the soil bed (20) at the desired depth (40); a fixed drawbar (150) hingedly attached to a front portion (112) of the frame (110) so that the drawbar (150) is pivotable about a drawbar axis (152) that is parallel to the wheel axis (122); a front height sensor (160) attached to the front portion (112) of the frame (110) to provide a front height signal; a rear height sensor (170) attached to the rear portion (114) of the frame to provide a rear height signal; and an actuator (196) located between the fixed drawbar (150) and the frame (110) operable to adjust an angle (182) between the fixed drawbar (150) and the frame (110) to level the frame

(110) relative to the soil bed (20) based on the front and rear height signal.



21: 2023/07493. 22: 2023/07/27. 43: 2024/01/31

51: C12M; G01N; G16H

71: c-square bioscience GmbH

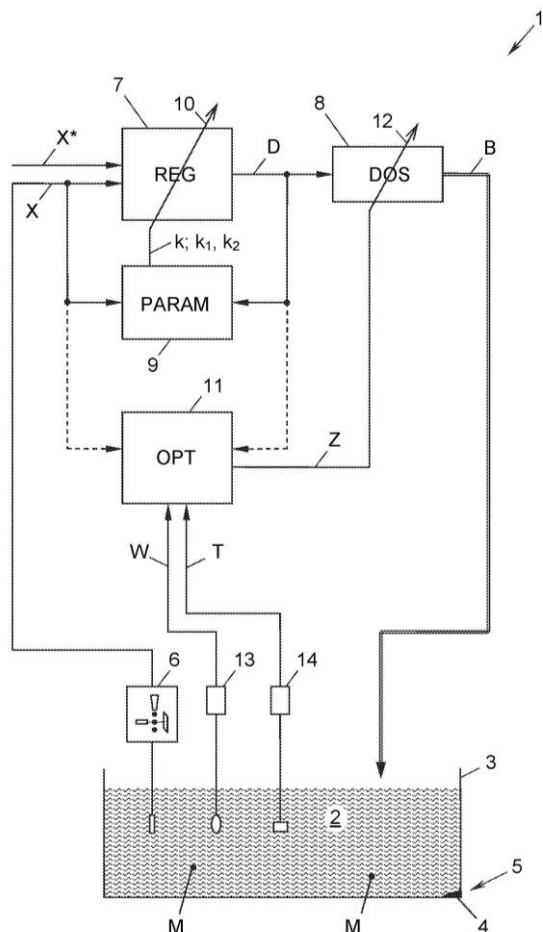
72: KRAETSCHMER, Gerald

#### 54: DEVICE AND METHOD FOR REGULATING THE CONTENT OF MICROORGANISMS

00: -

The invention relates to a device (1) and a method (15) for regulating the content (X) of microorganisms (M) in a liquid (2), comprising: a measuring unit (6) for measuring the content (X) of microorganisms, a regulating unit (7) which determines a metered quantity (D) of a biocide (B) by means of the measured content (X) of microorganisms using a model with at least one parameter (k;  $k_1$ ;  $k_2$ ; n) in order to achieve a specified content (X\*) of microorganisms, a supply unit (8) which supplies the biocide (B) to the liquid (2) in the metered quantity (D) determined by the regulating unit (7), and a computing unit (9) which computes the at least one parameter (k;  $k_1$ ;  $k_2$ ; n) from a record of the microorganism content (X) measured by the measuring unit (6) over at least one previous time interval ( $\Delta t$ ) and the quantity (P) of biocide (B) supplied in said time interval.





21: 2023/07499. 22: 2023/07/27. 43: 2024/02/05

51: A61K; A61P

71: Centro de Ingeniería Genética y Biotecnología  
 72: SANTANA MILIAN, Hector Jesús, HERNANDEZ BERNAL, Francisco, GONZALEZ BLANCO, Sonia, ZARATE RIVERA, Yasser, BACARDÍ FERNÁNDEZ, Dania Mercedes, GARCIA DEL BARCO HERRERA, Diana, GONZÁLEZ GONZÁLEZ, Yaima, CASTRO ODIO, Fidel Raúl, BERLANGA ACOSTA, Jorge Amador, GUILLÉN NIETO, Gerardo Enrique, VALIENTE MUSTELIER, Juan

33: CU 31: 2021-0010 32: 2021-01-29

#### 54: PHARMACEUTICAL COMPOSITION CONTAINING GHRP-6

00: -

The present invention relates to a pharmaceutical composition comprising growth-hormone releasing peptide 6 (GHRP- 6), tartrate buffer at pH 5.0 - 6.0, and trehalose as stabilizing agent, as well as to the use of said composition for the manufacture of a medicament. The invention also provides a kit of parts comprising said pharmaceutical composition and a method for treating an individual in need

thereof, which entails the administration of a therapeutically effective amount of the pharmaceutical composition comprising of GHRP-6, tartrate buffer at pH 5.0 - 6.0 and trehalose.

21: 2023/07522. 22: 2023/07/28. 43: 2024/01/31

51: H04W

71: DR. DIPEN KUMAR RAJAK

72: DR. DIPEN KUMAR RAJAK, DR. L. A. KUMARASWAMIDHAS, DR. ARUNA KUMAR BEHURA, DR. ASHWINI KUMAR, DR. SUDHANSU RANJAN DAS, DR. SANTOSH KUMAR SAHU, DR. ANSHUMAN DAS, MR. VINEETH V. K., DR. PRIYARANJAN SHARMA, DR. PRIYADARSHI TAPAS RANJAN SWAIN

33: IN 31: 202331011690 32: 2023-02-21

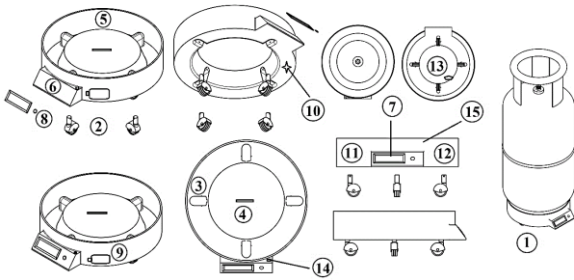
#### 54: AI-IOT BASED CYLINDER TROLLEY SYSTEM AND THEREOF

00: -

AI-IoT BASED CYLINDER TROLLEY SYSTEM AND THEREOF This invention disclosed of live weight monitor of the gas cylinder utility and automatic booking process features comprised through artificial intelligence (AI)- Internet of Things (IoT)-based sensor and mobile app. To design, configuration, and utilization of AI-IoT based smart trolley system is comprised of a novel trolley (1), swivelling castor wheels (2), foldable wheels section (3), measuring load cell (4), cylinder support holding base (5), printed circuit board (6), LCD screen (7), ON/OFF switch (8), 5-volt battery (9), a tiny buzzer (10), arduino kit (11), data processors (12), sensors (13), memory card (14), amplifier (15), Wi-Fi-hotspot (16), user interface (17), mobile app (18). The design model has been trained to monitor the performance of the embedded electronic circuit of the trolley and information is stored in attached memory on it. The memory and sensors are operationally connected to one or more processors to perform the proper functioning of the entire process. The processor is implanted to gather information on the live weight of the gas cylinder as measured by the sensor; input the data into the AI model; and then optimize the AI model response to the input data through a mobile app. However, the AI-IoT model has combined a smart feature to track daily gas (LPG, CNG & Oxygen, etc.) usage and also numerous appropriate applications based on a configured smart trolley system. Simultaneously, it is sensing the live weight data and alerts the user via an alarm system, when



the gas utilization reached the user's feed. A mobile app interface system will have the necessary information for gas distributors or dealers will be included in the app database or manually can be added. Hereafter a developed AI-IoT mechanism will be sent a notification to the users for completion of the automatic/manual online booking process or aware alarm of gas utility status.



21: 2023/07528. 22: 2023/07/28. 43: 2024/02/06  
51: F03D

71: WEG EQUIPAMENTOS ELÉTRICOS S/A,  
BEWIND GMBH

72: PETSCHKE, MARC

33: US 31: 63/393,666 32: 2022-07-29

#### **54: ROTOR BLADE OF A WIND TURBINE AND CORRESPONDING WIND TURBINE**

00: -

A rotor blade for a wind turbine, wherein the blade comprises a high lift root profile with flat-back trailing edge (TE) with a suction side (SS) and a pressure side (PS), a relative thickness ( $t$ ) in between 45% and 75%, preferably in between 48% and 70% of the chord length ( $c$ ) and a trailing edge thickness ( $t_{TE}$ ) between 30% and 75%, preferably between 35% and 60% of the airfoil thickness ( $t$ ), wherein the chord position ( $x_t$ ) of the maximum thickness ( $t$ ), measured from a leading edge (LE) towards the trailing edge (TE), is between 35% and 45%, preferably between 36% and 42% of the chord length ( $c$ ). The present invention also relates to a corresponding wind turbine.

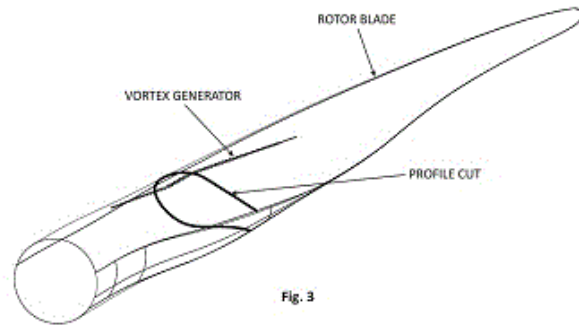


Fig. 3

21: 2023/07539. 22: 2023/07/28. 43: 2024/01/29  
51: G21C

71: Westinghouse Electric Company LLC

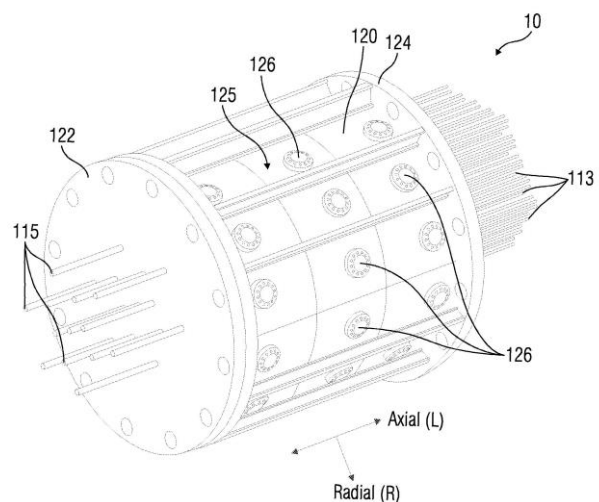
72: ALESHIN, Yuriy, KELLNER, Stuart

33: US 31: 17/156,977 32: 2021-01-25

#### **54: MICRO-REACTOR CORE MECHANICAL SUPPORT**

00: -

A nuclear reactor core mechanical support bracket is disclosed. The support bracket includes a housing, a spring disposed internally within the housing, a shaft slidably disposed within the housing and to engage the spring to compress and decompress the spring as the shaft travels in and out of the housing, a shaft travel pin to control the travel of the shaft, and a flange to mount the support bracket to a canister of a nuclear reactor. The shaft includes an inset configured to interface with a nuclear reactor core component.



21: 2023/07563. 22: 2023/07/31. 43: 2024/01/29

51: E04H; F21V

71: Fluidra Waterlinx (Pty) Ltd

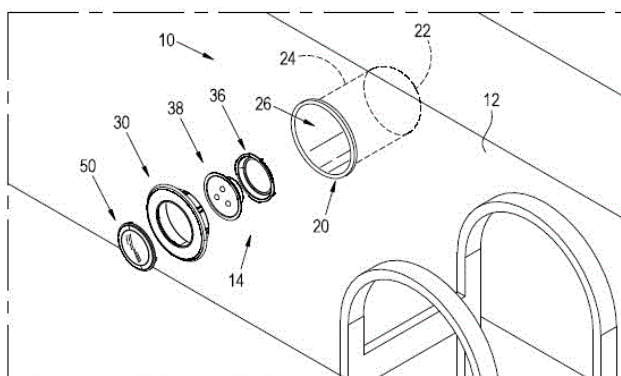
72: VAN DER VYVER, Donovan, BOTHA,  
Hermanus Johannes

33: ZA 31: 2022/09451 32: 2022-08-24

#### 54: SWIMMING POOL LIGHT

00: -

The invention provides a method of installing a swimming pool light which includes securing a light to a light holder which is removably receivable in a niche by twist-lockingly engaging retaining formations on a locking element with complementary retaining formations on the light holder. The invention further provides a light installation kit, a swimming pool light and a swimming pool installation.



21: 2023/07564. 22: 2023/07/31. 43: 2024/01/29

51: G06Q

71: SCOOD (PTY) LTD.

72: LUBBE, Nicola

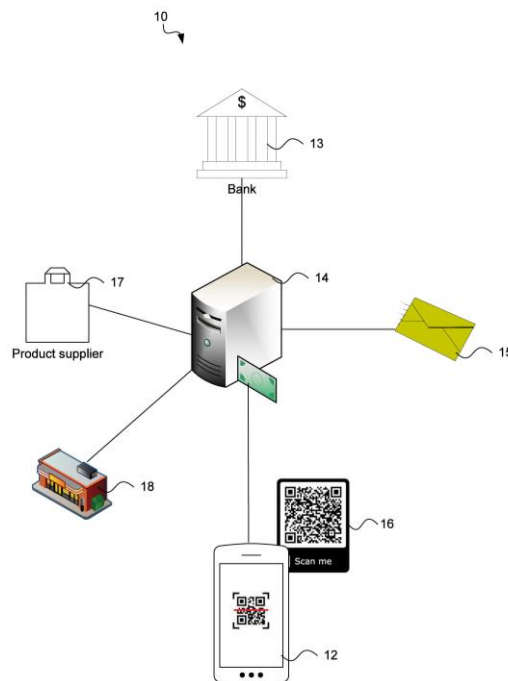
#### 54: A method of purchasing a product using a mobile device

00: -

This invention relates to a method 20, 30 and system 10 for purchasing a product or service using a mobile device 12. Through use of a mobile application 45, the customer gains access to an online store where products and services can be purchased. The method 20 and system 10 are characterized in that, instead of stock of the physical product being made available on a shelf in a store 18, a display which includes a machine-readable QR code 16 which is associated with the product or service for sale is provided in the store 18.

Accordingly, to purchase the product or service the customer scans 22 the QR code 16 which routes 23 their browser to the online store. The customer then selects one or more products which they would like to purchase 24 and submits 26 payment information for processing payment as well as a delivery

address where the product(s)/services are to be delivered/rendered.



21: 2023/07570. 22: 2023/07/31. 43: 2024/02/27

51: A61K; C07D

71: INTELGENX CORP.

72: TIR, Billal, PAIEMENT, Nadine

33: US 31: 63/146,458 32: 2021-02-05

33: US 31: 63/146,706 32: 2021-02-07

#### 54: HIGH LOADING ORAL FILM FORMULATION

00: -

An oral film dosage form with high loading of active pharmaceutical ingredients, comprising a suspending agent/viscosity increasing agent, a mucoadhesive film former, an amphiphilic solubility enhancer, a non-amphipathic solubility enhancer, an agglomeration inhibitor, and a surfactant. The oral film dosage form comprises at least 40mg active pharmaceutical ingredient, representing 22% of the dry weight of the oral film. Also disclosed are oral films comprising a low-solubility active pharmaceutical ingredient at an acidic pH.

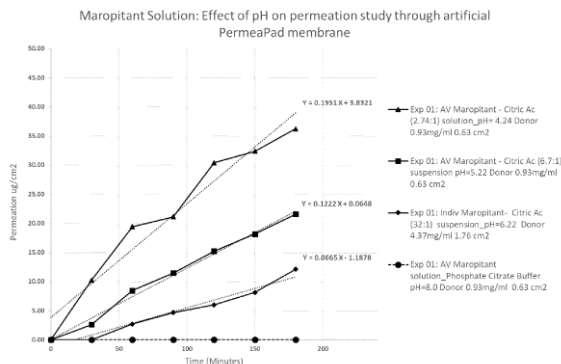


FIGURE 9

21: 2023/07583. 22: 2023/07/31. 43: 2024/02/05  
51: B03B; B04B

71: SHELKUNOV, Yury Anatolevich

72: SHELKUNOV, Yury Anatolevich

33: RU 31: 2021107269 32: 2021-03-19

#### 54: EMBODIMENTS OF A MODULAR CONCENTRATING BOWL FOR A CENTRIFUGAL CONCENTRATOR

00: -

The present embodiments of a modular concentrating bowl for a centrifugal concentrator and of a method for manufacturing same relate to mineral processing devices and can be used for separating solid particles by density. By way of example, the claimed invention can be used for processing auriferous ores and fine-grained sands, as well as copper-nickel ores, which are not suited to magnetic separation. An object of the claimed invention is to create a device for the gravitational separation of ores which has a long service life and is easy to use, as well as to develop a method for manufacturing same. The technical result of the claimed invention with respect to a device and a method is an increase in the service life of a concentrating bowl and the reparability thereof, as well as in the reliability of the device and the ease of manufacture thereof.

21: 2023/07584. 22: 2023/07/31. 43: 2024/01/31  
51: H02J

71: QUALCOMM Incorporated

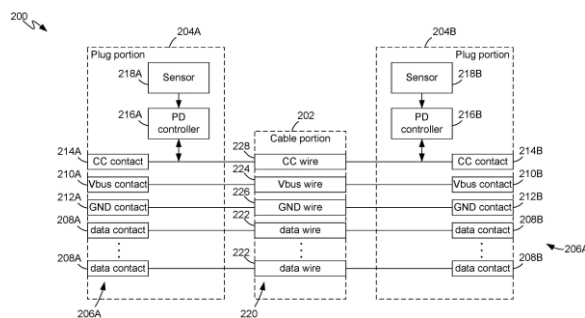
72: MISHRA, Lalan Jee, WIETFELDT, Richard Dominic, PAPARRIZOS, Georgios Konstantinos, WARNER, Joshua

33: US 31: 17/172,870 32: 2021-02-10

#### 54: DISCONNECTION ARC PREVENTION IN CABLE-SUPPLIED POWER CONNECTION

00: -

Power delivery may be controlled to help prevent arcing when a data cable supplying power from a power source device to a power sink device is disconnected. The presence of a user in proximity to a connection between a cable plug and a cable receptacle may be detected. The level of a power signal being conveyed from the power source to the power sink may be reduced in response to the detection.



21: 2023/07586. 22: 2023/07/31. 43: 2024/01/31  
51: B29C; B65D

71: Husky Injection Molding Systems Ltd.

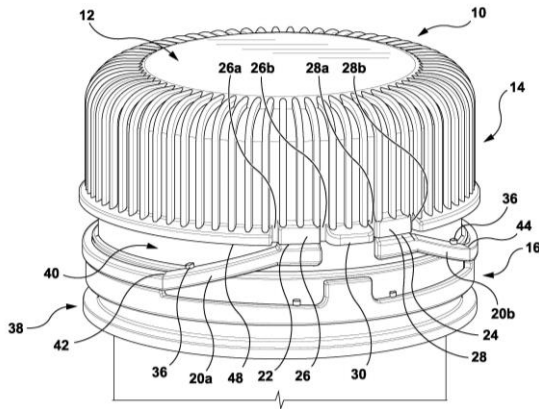
72: SCHERER, Stephan, NAUMANN, Tobias

33: US 31: 63/148,654 32: 2021-02-12

#### 54: CLOSURE DEVICES AND MOLD COMPONENTS FOR MOLDING CLOSURE DEVICES

00: -

A molding apparatus for molding a closure device for a container. The closure device may be tethered to the container, and may open and close via a hinged articulation. The closure device includes a cylindrical body comprising hinge-connecting areas with pockets formed in the interior wall and defining an inner surface of the hinge-connecting areas, and hinges extending downwardly from the hinge-connecting areas and positioned at or below a bottom edge of the cylindrical body. The molding apparatus comprises a cavity insert component and a core component that cooperate to form mold surfaces to mold the closure device such that hinges are located below the cap area of the closure device, and hinge-connecting areas formed by projections in the core mold component and recesses in the cavity mold component are located within the cap area are flanked by membranous areas.



21: 2023/07588. 22: 2023/07/31. 43: 2024/02/13  
51: G21C; G21D

71: Westinghouse Electric Company LLC

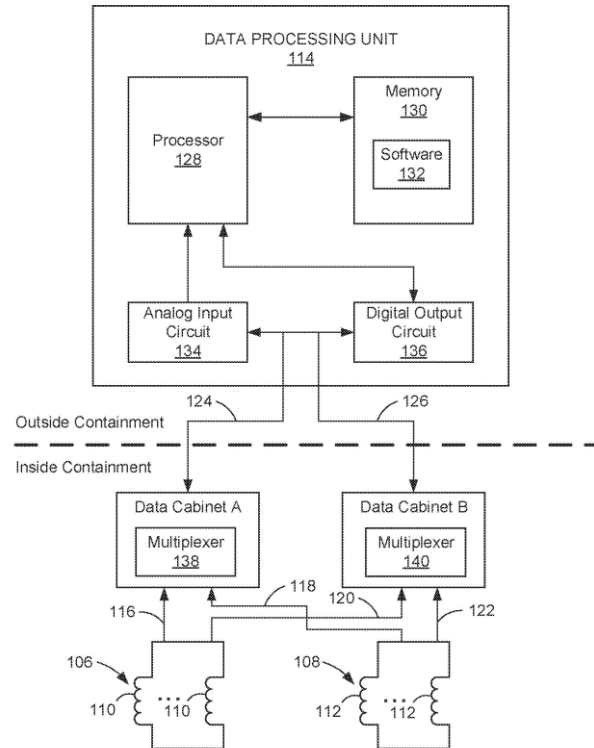
72: MEYERS, Timothy S., CZWALGA, Steven E.

33: US 31: 17/155,807 32: 2021-01-22

#### 54: NUCLEAR MOVABLE ELEMENT POSITION INDICATION APPARATUS, SYSTEM, AND METHOD

00: -

Disclosed is an apparatus, system, and method for monitoring a position of a control rod disposed in a nuclear reactor vessel in a radioactive environment. A data processing unit located outside a containment structure includes a processor and a memory storing executable instructions. A nuclear reactor vessel includes a plurality of control rods proximate to the control rod and a coil stack of a plurality of control rod position indicator coils. A data cabinet mounted on the nuclear reactor vessel head inside the containment structure includes an analog multiplexer and a communication circuit. The processor executes the instructions to select a control rod position indicator coil through the analog multiplexer, pass a signal from the control rod position indicator coil through the analog multiplexer, receive the signal from the analog multiplexer through the communication circuit, and determine a position of the control rod based on the received signal.



21: 2023/07645. 22: 2023/08/02. 43: 2024/02/13  
51: G21C

71: CHINA NUCLEAR POWER ENGINEERING CO., LTD.

72: DONG, JIANHUA, ZHANG, SHUOTING, ZHANG, CHENGLONG, ZHU, SIYANG, LI, HUANG, YAO, HONG, HE, KAI, YANG, CHANGJIANG, LIU, GUOMING, WANG, JUN

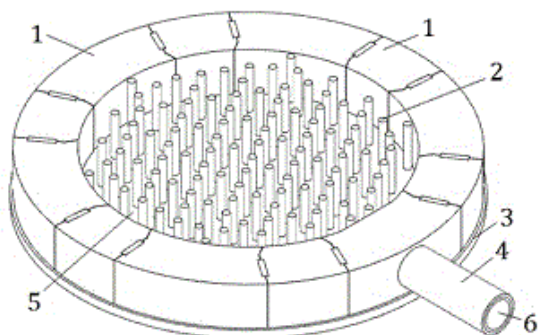
33: CN 31: 202110274580.3 32: 2021-03-15

#### 54: MIXING CHAMBER STRUCTURE FOR PRISMATIC HIGH-TEMPERATURE GAS-COOLED REACTOR, AND PRISMATIC HIGH-TEMPERATURE GAS-COOLED REACTOR STRUCTURE

00: -

A mixing chamber structure for a prismatic high-temperature gas-cooled reactor, and a prismatic high-temperature gas-cooled reactor structure. The mixing chamber structure comprises an annular sidewall and a bottom plate (3); the annular sidewall is supported on the bottom plate (3) and sealedly connected to the bottom plate (3); the prismatic high-temperature gas-cooled reactor is supported on the annular sidewall and sealedly connected to the annular sidewall; the annular sidewall and the bottom plate (3) define a mixing chamber (5); the mixing chamber (5) is communicated with all coolant channels of the prismatic high-temperature gas-

cooled reactor and used for mixing coolants flowing out of the coolant channels; an outlet flow channel (6) is further arranged on the annular sidewall and used for communicating the mixing chamber (5) with a reactor core outlet channel. The mixing chamber structure for a prismatic high-temperature gas-cooled reactor is capable of collecting, mixing, and transporting coolants, improving the uniformity of the coolants flowing out of a reactor core fuel zone, and improving the operating safety of the reactor.



21: 2023/07652. 22: 2023/08/02. 43: 2024/02/13

51: B01J

71: Casale SA

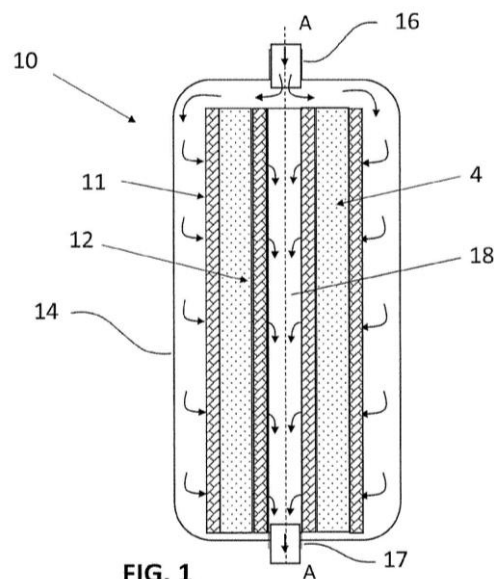
72: RIZZI, Enrico

33: EP(CH) 31: 21156311.9 32: 2021-02-10

#### **54: CATALYTIC SYNTHESIS REACTOR**

00: -

A catalytic synthesis reactor is described, said reactor comprising a catalytic bed with an annular cylindrical shape delimited by a gas inlet header and a gas outlet header, wherein at least one of said headers has a multiple-wall structure comprising an outer perforated plate (1) having a load-bearing function, an expanded metal plate (2) acting as a spacing element, and a thin micro-perforated plate (3) facing the catalyst and having a catalyst's retaining function.



**FIG. 1**

21: 2023/07702. 22: 2023/08/04. 43: 2024/02/12

51: G09G

71: BERNSTEIN, Irvin

72: BERNSTEIN, Irvin

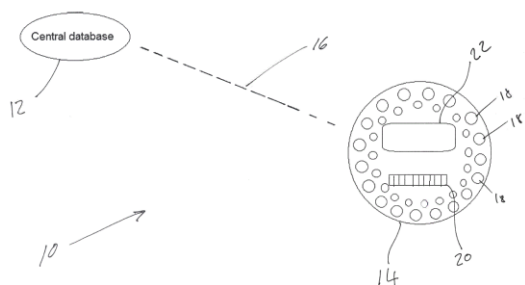
33: ZA 31: 2016/02032 32: 2016-03-29

#### **54: ELECTRONIC VEHICLE REGISTRATION SYSTEM**

00: -

An electronic vehicle licence registration system which includes a central database for uploading and storing vehicle related information selected from any one of the group consisting of vehicle make, vehicle model, vehicle VIN number, vehicle registration number, vehicle owner, outstanding traffic fines associated with the vehicle, temporary vehicle permit, classification of the licenced vehicle; a remote controllable unit for receiving, storing and/or displaying the vehicle licence related information received from the central database; and a communication network for allowing communication between the central database and the remote controllable unit.





21: 2023/07714. 22: 2023/08/04. 43: 2024/02/12

51: B01J

71: Casale SA

72: RIZZI, Maurizio

33: EP(CH) 31: 21162870.6 32: 2021-03-16

#### **54: REACTOR SYSTEM FOR MIXING OPERATION AT PARTIAL LOAD**

00: -

A reactor system (100) comprising a multibed catalytic converter (1) including a mixing region (50, 20) upstream of a catalytic bed, the mixing region is arranged to mix a feed gas of the catalytic bed with a mixing gas, the mixing gas is introduced in the mixing region via a plurality of mixing gas feed lines, each of said lines includes at least one flow regulators device so that the amount of mixing gas admitted into the mixing region by each of the mixing gas feed lines is independently controlled.

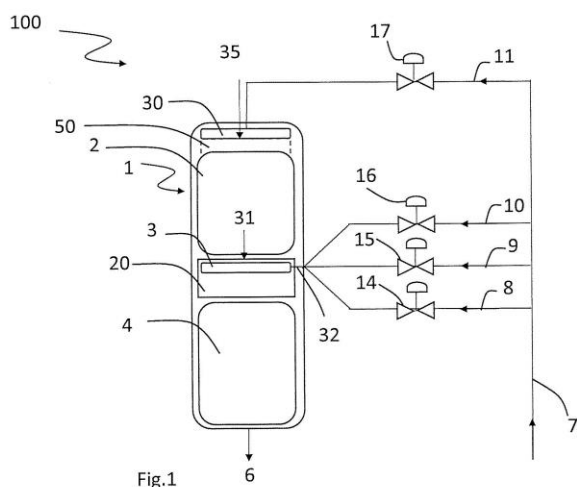


Fig.1

21: 2023/07726. 22: 2023/08/02. 43: 2024/02/29

51: B01D; C02F; G01N

71: BIOFOULING TECHNOLOGIES, INC.

72: MCMURRAY, Brian, SHARP, Cliff, TERMINI, Mike, RALSTON, Emily, DORMIER, Ed, CALCUTT, Lindsey, BASISTA, Joseph, STEPHENS, Abraham

33: US 31: 62/817,873 32: 2019-03-13

33: US 31: 62/754,574 32: 2018-11-01

#### **54: DURABLE BIOFOULING PROTECTION**

00: -

Disclosed are devices, methods and/or systems for use in protecting items and/or structures that are exposed to, submerged and/or partially submerged in aquatic environments from contamination and/or fouling due to the incursion and/or colonization by specific types and/or kinds of biologic organisms and/or plants, including the protection from micro-and/or macro-fouling for extended periods of time of exposure to aquatic environments.

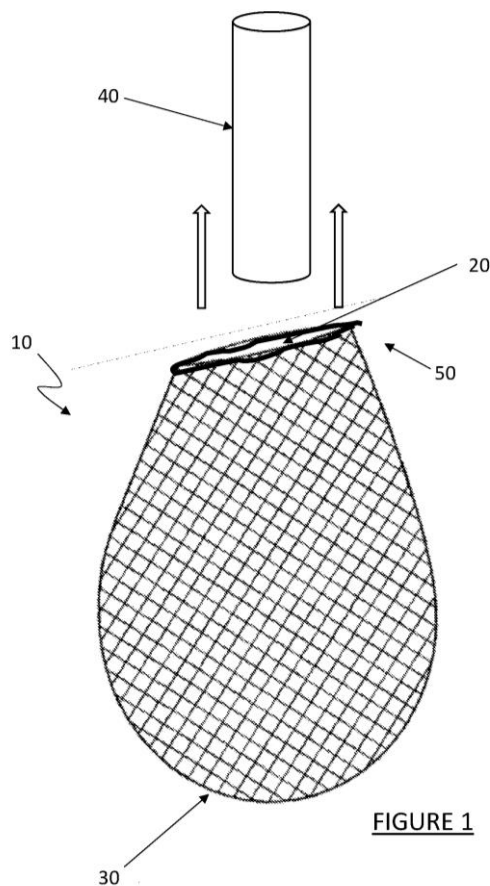


FIGURE 1

21: 2023/07727. 22: 2023/08/02. 43: 2024/02/29

51: B01D; C02F; G01N

71: BIOFOULING TECHNOLOGIES, INC.

72: MCMURRAY, Brian, SHARP, Cliff, TERMINI, Mike, RALSTON, Emily, BASISTA, Joseph, DORMIER, Ed, CALCUTT, Lindsey, STEPHENS, Abraham

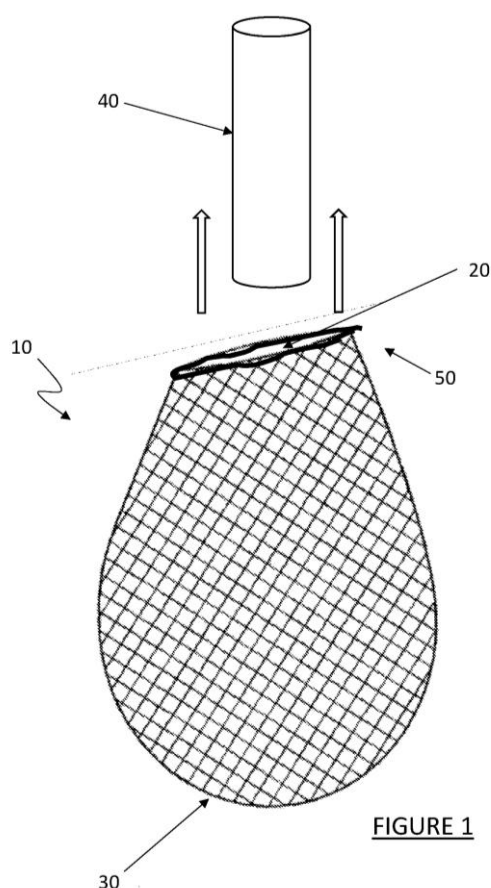
33: US 31: 62/754,574 32: 2018-11-01

33: US 31: 62/817,873 32: 2019-03-13

**54: DURABLE BIOFOULING PROTECTION**

00: -

Disclosed are devices, methods and/or systems for use in protecting items and/or structures that are exposed to, submerged and/or partially submerged in aquatic environments from contamination and/or fouling due to the incursion and/or colonization by specific types and/or kinds of biologic organisms and/or plants, including the protection from micro- and/or macro-fouling for extended periods of time of exposure to aquatic environments.

21: 2023/07728. 22: 2023/08/02. 43: 2024/02/29  
51: B01D; C02F; G01N

71: BIOFOULING TECHNOLOGIES, INC.

72: MCMURRAY, Brian, SHARP, Cliff, TERMINI, Mike, RALSTON, Emily, BASISTA, Joseph, DORMIER, Ed, CALCUTT, Lindsey, STEPHENS, Abraham

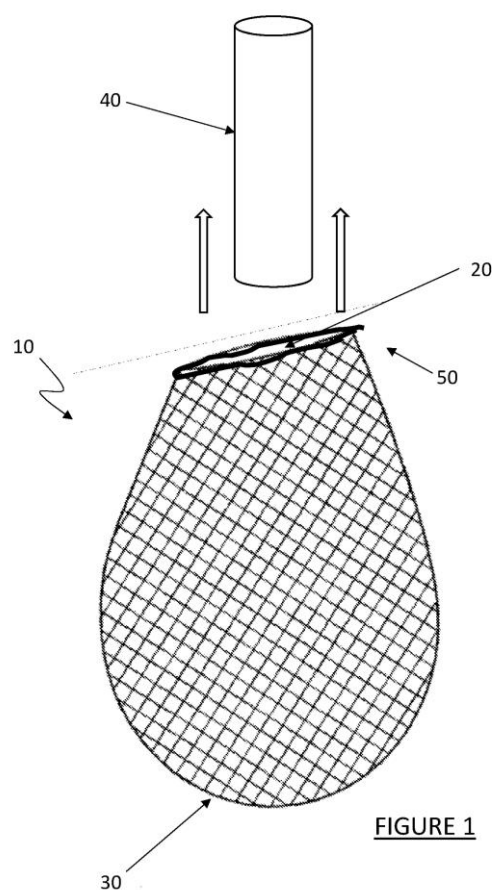
33: US 31: 62/754,574 32: 2018-11-01

33: US 31: 62/817,873 32: 2019-03-13

**54: DURABLE BIOFOULING PROTECTION**

00: -

Disclosed are devices, methods and/or systems for use in protecting items and/or structures that are exposed to, submerged and/or partially submerged in aquatic environments from contamination and/or fouling due to the incursion and/or colonization by specific types and/or kinds of biologic organisms and/or plants, including the protection from micro- and/or macro-fouling for extended periods of time of exposure to aquatic environments.



21: 2023/07729. 22: 2023/08/02. 43: 2024/02/29

51: B01D; C02F; G01N

71: BIOFOULING TECHNOLOGIES, INC.

72: MCMURRAY, Brian, SHARP, Cliff, TERMINI, Mike, RALSTON, Emily, BASISTA, Joseph, DORMIER, Ed, CALCUTT, Lindsey, STEPHENS, Abraham

33: US 31: 62/817,873 32: 2019-03-13

33: US 31: 62/754,574 32: 2019-11-01

**54: DURABLE BIOFOULING PROTECTION**

00: -

Disclosed are devices, methods and/or systems for use in protecting items and/or structures that are

exposed to, submerged and/or partially submerged in aquatic environments from contamination and/or fouling due to the incursion and/or colonization by specific types and/or kinds of biologic organisms and/or plants, including the protection from micro-and/or macro-fouling for extended periods of time of exposure to aquatic environments.

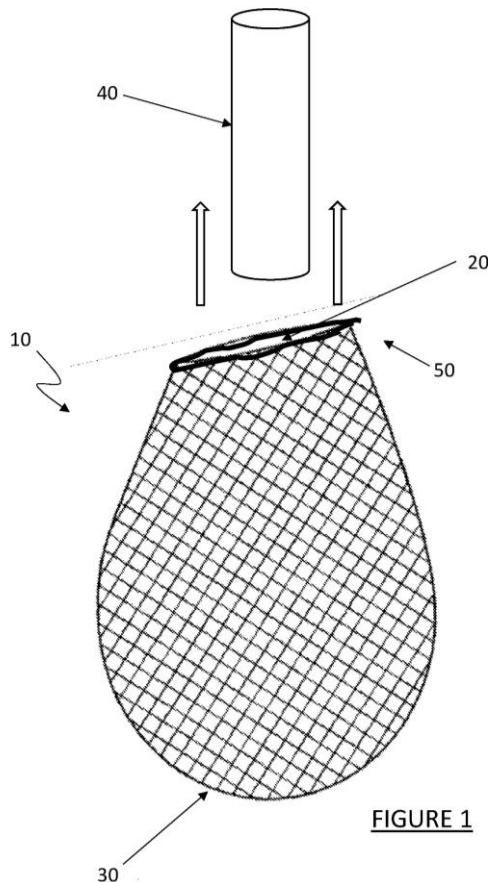


FIGURE 1

21: 2023/07739. 22: 2023/08/07. 43: 2024/02/12  
 51: F16B; F16L  
 71: Fluidra Waterlinx (Pty) Ltd  
 72: VAN DER MEIJDEN, Hendrikus Johannes, VAN DER MEIJDEN, Abian, HOLGREAVES, David Neil, VAN DER LINDE, Aldo, BORMAN, Francois, VAN DER VYVER, Donovan, SCHUTTE, André Coenraad  
 33: US 31: 63/396,224 32: 2022-08-08  
**54: PIPE FITTING TOOL AND ASSOCIATE METHODS**  
 00: -  
 Pipe fitting tools and associated methods may be used to connect (or assemble) two components together, such as a pipe and a pipe fitting, and in

certain embodiments may be used to disconnect (or disassemble) two connected components. A pipe fitting tool may include a holding head and a moving head that is pivotable relative to the holding head. The holding head is configured to support a pipe and a pipe fitting, and the moving head is configured to engage the pipe for moving the pipe relative to the pipe fitting.

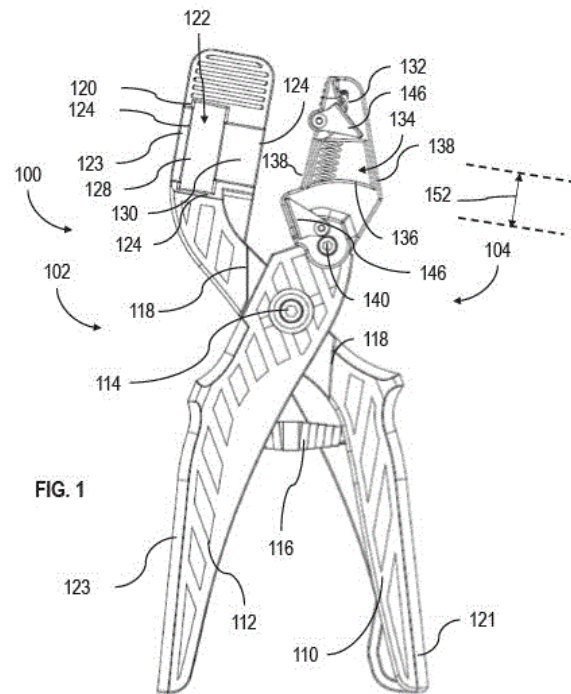


FIG. 1

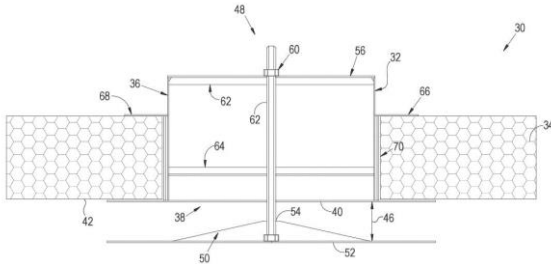
21: 2023/07746. 22: 2023/08/07. 43: 2024/02/12  
 51: E04B; F24F  
 71: SPECIALISED CLIMATE ENGINEERING (PTY) LTD.  
 72: ANDERSEN, John Craig

#### **54: CEILING DIFFUSER**

00: -

A ceiling diffuser is provided, comprising a housing located within an aperture defined within a ceiling panel, the housing defining an air inlet proximate a top region of the housing, to receive incoming air, and an air outlet proximate a bottom region of the housing through which air can exit. A laminar top plate is fitted to a bottom end of the housing, with a laminar bottom plate being spaced apart from, and arranged parallel to, the laminar top plate by a predetermined gap. A diffusion cone is fitted to the laminar bottom plate. In use, air exiting through the

air outlet of the housing and through the gap between the laminar top and bottom plates is subjected to the Coanda effect, so that moving air clings to and follows the bottom surface of the ceiling panel, so as to increase its throw.



21: 2023/07777. 22: 2023/08/08. 43: 2024/02/12  
51: A61F

71: MENOVA INTERNATIONAL, INC.

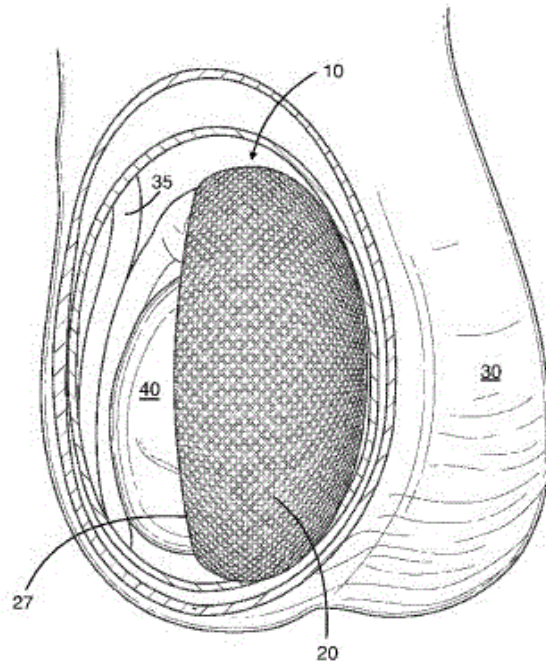
72: ELIST, James, J.

33: US 31: 17/172,506 32: 2021-02-10

#### **54: TESTICULAR IMPLANT DEVICE AND METHOD**

00: -

A testicular implant device and method is provided. The testicular implant device comprises a generally spherical, hollow body configured to be implanted within a scrotum and a cavity sized to receive a testis. The spherical, hollow body has one or more layers of net sheeting, which provides structural rigidity to the implant and facilitates suturing of the implant to the patient. The method comprises the steps of administering one or more anesthetic agents to a patient having at least one testis and a scrotum; cutting an incision in the scrotum to expose the tunica vaginalis; cutting an incision in the tunica vaginalis; providing a testicular implant having a generally spherical, hollow body and one or more layers of net sheeting; placing the testicular implant over the at least one testis; closing the incision in the tunica vaginalis; connecting the testicular implant to the tunica vaginalis; and closing the scrotum.



21: 2023/07790. 22: 2023/08/08. 43: 2024/02/12  
51: H04N

71: HANGZHOU HIKVISION DIGITAL TECHNOLOGY CO., LTD.

72: CHEN, FANGDONG, CAO, XIAOQIANG, SUN, YUCHENG

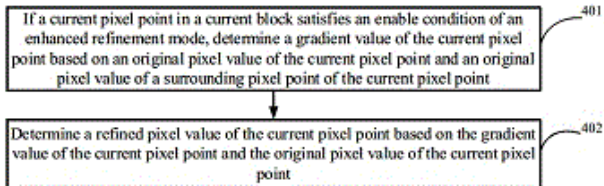
33: CN 31: 202110204154.2 32: 2021-02-23

#### **54: CODING AND DECODING METHOD AND APPARATUS, AND DEVICES THEREFOR**

00: -

Provided are a coding and decoding method and apparatus, and devices therefor. The method may comprise: if the current pixel point in the current block meets an enabling condition for an enhanced adjustment mode, determining a gradient value of the current pixel point on the basis of an original pixel value of the current pixel point and original pixel values of surrounding pixel points of the current pixel point; and determining an adjustment pixel value of the current pixel point on the basis of the gradient value of the current pixel point and the original pixel value of the current pixel point. By means of the technical solution of the present application, the coding performance can be improved.





21: 2023/07792. 22: 2023/08/08. 43: 2024/02/12

51: H02K

71: PAL-K DYNAMICS PVT. LTD.

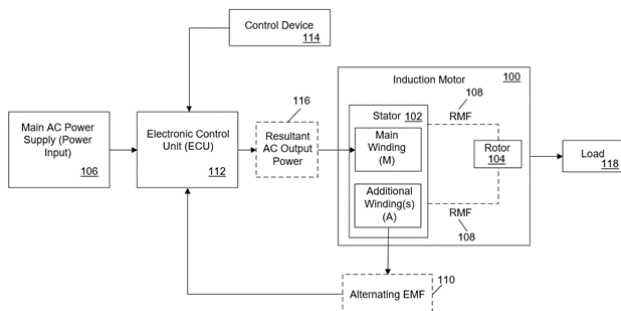
72: THEKKE PEEDIKAYIL, Kunjimon

33: IN 31: 202141001079 32: 2021-01-09

**54: ENERGY EFFICIENT INDUCTION MOTOR**

00: -

The invention relates to an energy efficient induction motor comprising a stator, a main winding (M) of the stator for generating a rotating magnetic field (RMF), and a rotor disposed to rotate relative to the main winding (M) of the stator due to the RMF. The stator comprises additional windings (A) for producing an alternating EMF which is induced in the one or more additional windings (A) due to the rotation of the rotor. The alternating EMF produced in the one or more additional windings (A) is fed back simultaneously to the main winding (M) of the stator throughout the complete rotation cycle of the rotor through an electronic control unit coupled to the stator, producing a resultant AC output power that is fed continuously to the main winding (M) of the stator.



21: 2023/07800. 22: 2023/08/08. 43: 2024/02/12

51: H02K

71: PolyWavePower IP Proprietary Limited

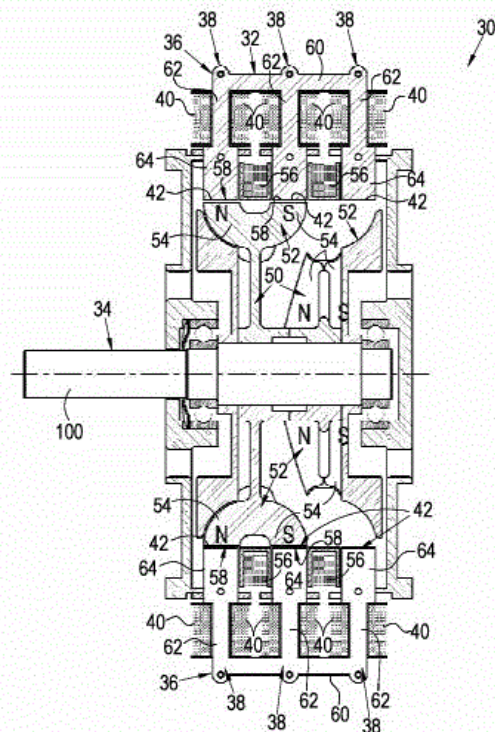
72: IGNJATOVIC, Dragan

**54: BIPOLAR INDUCTION ELECTRIC MACHINE**

00: -

A bipolar induction electric machine is provided comprising a stator arrangement comprising a plurality of circumferentially arranged stator modules, each stator module comprising a plurality of axially

arranged spaced apart stator pole elements fitted with a concentrated armature winding and terminating in an inwardly facing, curved stator pole surface; and a rotor arrangement rotatably and concentrically accommodated within the stator arrangement, the rotor arrangement comprising a plurality of axially arranged rotor modules, each rotor module comprising at least one circumferentially arranged, curved bi-polar member comprising a pair of curved rotor pole elements that are axially displaced on either side of a stationary concentric field exciter coil accommodated within the stator arrangement. The curved rotor pole elements are concentrically arranged relative to the stator pole surfaces so as to define a uniform air-gap therebetween and thus provide a plurality of axially segmented multipolar flux circuits.



21: 2023/07816. 22: 2023/08/10. 43: 2024/02/12

51: C06B; F42D

71: OMNIA GROUP (PROPRIETARY) LIMITED

72: PATHAK, Rakhi, HARIPARSAD, Nishen

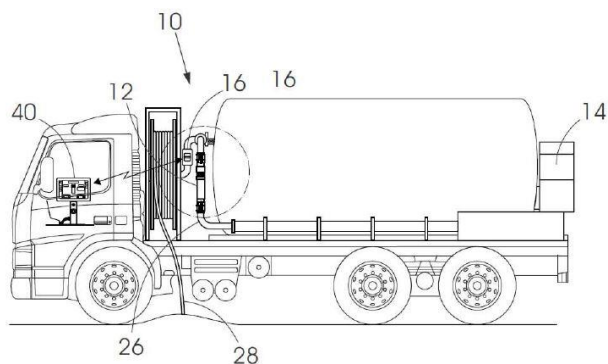
**54: A SYSTEM AND METHOD FOR MODIFYING AN EMULSION EXPLOSIVE**

00: -

The invention provides a system for modifying an emulsion explosive on site in a blasting environment,



the system comprising; a manufacturing unit, configured to prepare the emulsion explosive, a homogeniser unit, configured to modify the rheology of the emulsion explosive; a pump, configured to pump the emulsion through the homogeniser unit and to subsequently discharge the homogenised emulsion into one or more blast holes; and an electronic device, configured to monitor various parameters associated with the system. The invention also extends to a method of modifying an emulsion explosive using the system of the invention.



21: 2023/07828. 22: 2023/08/10. 43: 2024/02/27  
51: H01M

71: AUTONOMOUS NON-PROFIT ORGANIZATION FOR HIGHER EDUCATION "SKOLKOVO INSTITUTE OF SCIENCE AND TECHNOLOGY", INENERGY LIMITED LIABILITY COMPANY (INENERGY LLC)

72: ABAKUMOV, Artem Mikhailovich, SAVINA, Aleksandra Aleksandrovna, ORLOVA, Elena Dmitrievna

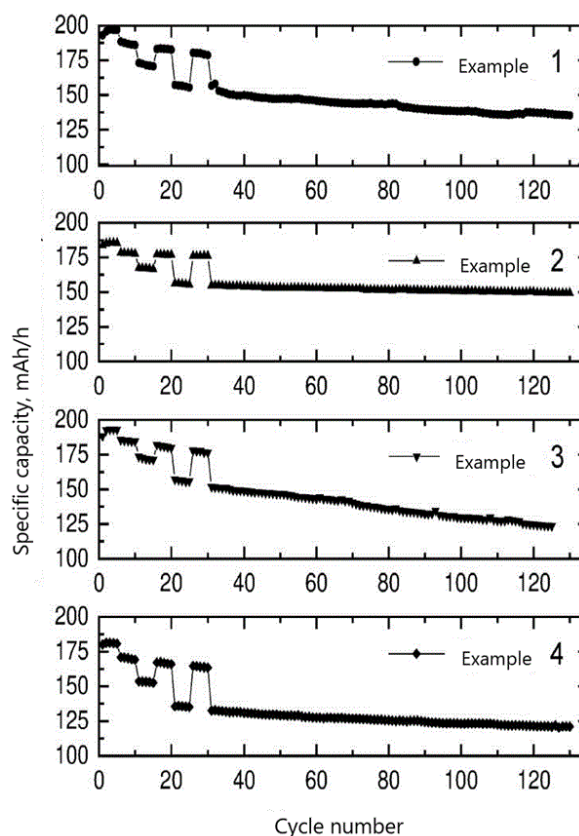
33: RU 31: 2020140929 32: 2020-12-11

#### **54: COMPOSITE CATHODE MATERIAL FOR LITHIUM-ION BATTERIES**

00: -

The invention relates to the electrotechnical industry and can be used to produce a positive electrode (cathode) material based on layered transition metal oxides for lithium-ion storage batteries. An active cathode sulfur-containing composite material for lithium-ion batteries is in the form of a compound of the formula (1-a)  $\text{LiNixMnyCozAvO2aLidSbOc}$ , where  $\text{LiNixMnyCozAvO2}$  is a component containing layered transition metal oxides,  $\text{LidSbOc}$  is an amorphous sulfur-containing component, and A is a doping agent selected from the group comprising Al, Mg, Zr, W, Ti, Cr, V,  $v \leq 0,1$ ,  $x+y+z+v=1$ ,

$0.3 \leq x \leq 0.85$ ;  $0 \leq y \leq 0.3$ ;  $0 \leq z \leq 0.3$ ;  $0.0001 \leq a \leq 0.02$ ,  $0.001 \leq b \leq 2$ ;  $0 \leq c \leq 8$ ;  $0.001 \leq d \leq 2$ , wherein said composite material is produced from a sulfur-containing precursor compound of the formula:  $\text{NixMnyCozOm(OH)2-2f(SbOc)f}$  or  $\text{NixMnyCoz(CO3)1-g(SbOc)g}$ , where  $0.3 \leq x \leq 0.85$ ;  $0 \leq y \leq 0.3$ ;  $0 \leq z \leq 0.3$ ,  $0 \leq m \leq 1$ ,  $0.001 \leq b \leq 2$ ,  $0 \leq c \leq 8$ ,  $0.0001 \leq f \leq 0.05$ ,  $0.0001 \leq g \leq 0.02$ . The technical result consists in improving the operating characteristics of the cathode material, specifically in increasing the charge/discharge cycles while maintaining a high specific capacitance as a result of introducing the amorphous sulfur-containing component  $\text{LidSbOc}$  into the composition of the cathode.



21: 2023/07847. 22: 2023/08/11. 43: 2024/02/12  
51: G06Q

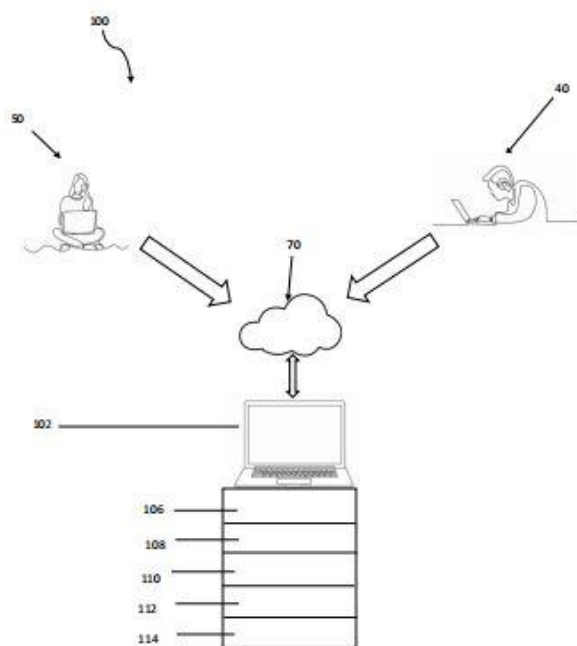
71: Flipware CC

72: Flipware CC

#### **54: A SYSTEM FOR, AND A METHOD OF, ACQUIRING MOTOR VEHICLE INSURANCE AND/OR REPORTING A MOTOR VEHICLE ACCIDENT**

00: -

According to a first aspect of the invention, there is provided a system for acquiring motor vehicle insurance and/or reporting a motor vehicle accident, including one or more of the following: a user interface; a means of displaying one or more available insurance products and/or insurance cover options, based upon a predetermined insurance profile of a user; a means of enabling said user to purchase and/or activate an insurance product and/or insurance cover option, from a relevant insurance service provider; and a means of enabling said user to create and submit any applicable accident report to an insurance service provider, in use. In a second example embodiment of the invention, the system is provided in the example form of a prepaid insurance platform, such as an online prepaid insurance and/or accident reporting platform. In an embodiment of the invention the available insurance products and/or insurance cover options include, amongst others, short-term prepaid insurance cover.

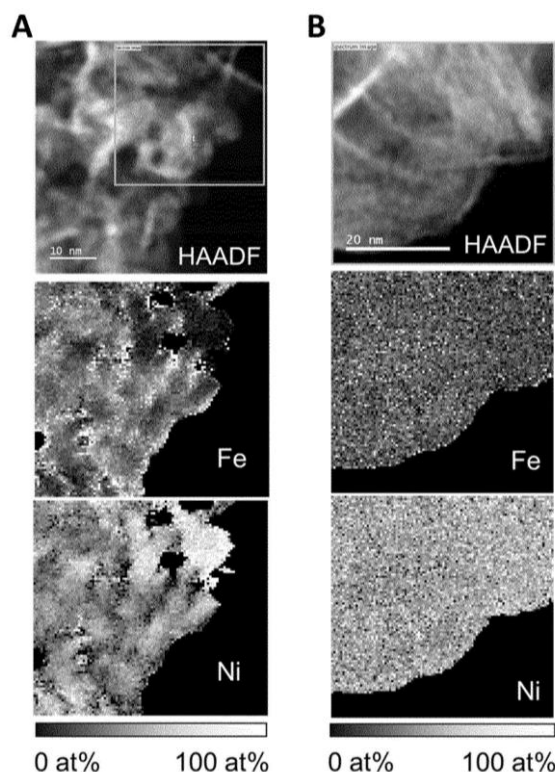


21: 2023/07864. 22: 2023/08/11. 43: 2024/02/12  
 51: C01G  
 71: Universitat de València  
 72: ABELLÁN SÁEZ, Gonzalo, OESTREICHER, Víctor, CORONADO MIRALLES, Eugenio, ROMERO PASCUAL, Jorge  
 33: EP(ES) 31: 21382113.5 32: 2021-02-12

#### 54: A LAYERED DOUBLE HYDROXIDE, A PROCESS FOR THE SYNTHESIS AND USES THEREOF

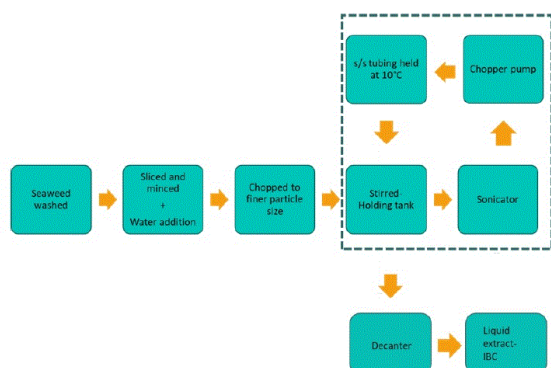
00: -

The present invention relates to a layered double hydroxide comprising at least one divalent cation  $\text{Al}^{\text{II}}$  or alternatively  $\text{Li}^{\text{I}}$ , at least one trivalent cation  $\text{B}^{\text{III}}$  selected from the group consisting of  $\text{V}^{\text{III}}$ ,  $\text{Co}^{\text{III}}$ ,  $\text{Cr}^{\text{III}}$ ,  $\text{Mn}^{\text{III}}$ ,  $\text{Fe}^{\text{III}}$ ,  $\text{Ga}^{\text{III}}$  and lanthanides. The present invention also relates to a process for the synthesis of said layered double hydroxide and uses thereof.



21: 2023/07872. 22: 2023/08/14. 43: 2024/02/19  
 51: A01N C05G  
 71: AFRIKELP (PTY) LTD  
 72: NAICKER, Dunesha, HART, Nicole, MAJEKE, Bongo  
 33: ZA 31: 2022/12469 32: 2022-11-16  
**54: SYSTEM AND METHOD FOR PHYTOHORMONE EXTRACTION**  
 00: -

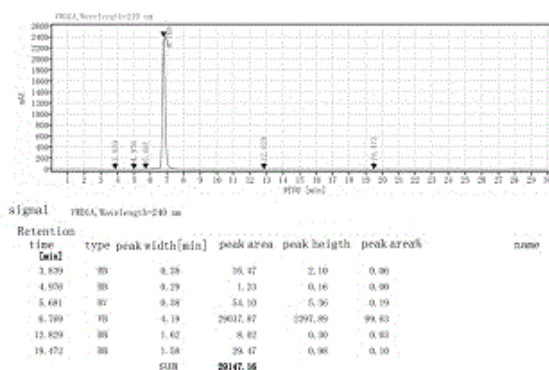
The invention provides a method for producing phytohormone containing liquid from kelp (*Ecklonia maxima*) which method comprises the steps of a first micronising step for micronising phytohormone containing plant material, a second micronising step for further micronising of the phytohormone containing plant material while circulating micronised phytohormone containing plant material under controlled temperature for a predetermined period of time to yield processed phytohormone containing plant material, and a decanting step for decanting processed phytohormone containing plant material for yielding phytohormone containing liquid. In the first micronising step freshly harvested biomass/seaweed is washed and micronised to yield a particle size of  $< 10\mu\text{m}$  and circulated through densely coiled stainless steel tubing held at  $10^{\circ}\text{C}$  to mimic the cold conditions of the natural habitat of the kelp, and also serves to stabilise extracted phytohormone.



21: 2023/07893. 22: 2023/08/14. 43: 2024/02/19  
 51: C07C  
 71: ANQING ROUNDCARE PHARMACEUTICAL CO., LTD  
 72: RAO, JINGWEI, SHEN, YANYANG, YUE, YONGLI, GU, JIANJUN, LU, FEI, LIN, LI, ZHANG, JIAN  
 33: CN 31: 202210049754.0 32: 2022-01-17  
**54: PREPARATION METHOD FOR IOVERSOL HYDROLYSATE**

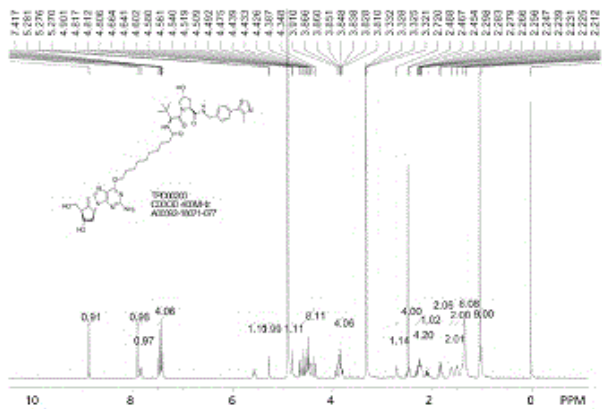
00: -  
 A preparation method for ioversol hydrolysate, comprising: with an industrial iodide as a raw material, subjecting the industrial iodide and acetoxyacetyl chloride to an acetoxyacetylation reaction, hydrolyzing same, and regulating the acidity to obtain the ioversol hydrolysate. According

to the method, crystallization is performed in an aqueous solution, thereby achieving safety and environmental friendliness; and the obtained target product has a yield of 90% or above and a purity of 99.5% or above, and is suitable for the use as a raw material for the industrial production of ioversol.



21: 2023/07894. 22: 2023/08/14. 43: 2024/02/19  
 51: C07D; A61K; C12N; A61P  
 71: TAIBIDI PHARMACEUTICAL TECHNOLOGY (SHIJIAZHUANG) CO., LTD.  
 72: SU, XIANGDONG, LU, FENGMIN, QI, FEI, WEN, TIANLE, BAI, MINGJIE, WANG, JINXU  
 33: CN 31: 202210064310.4 32: 2022-01-20  
 33: CN 31: 202110094088.8 32: 2021-01-22  
**54: COMPOUND FOR DEGRADING DEOXYRIBONUCLEIC ACID (DNA) POLYMERASE, AND USE THEREOF**

00: -  
 The present invention relates to the field of biomedicine, and specifically relates to a proteolysis-targeting chimera (PROTAC) compound. The structure of the PROTAC compound can be represented by general formula LGP-LK-LGE, wherein LGP is a ligand for binding a deoxyribonucleic acid (DNA) polymerase; LGE is a ligand for binding an E3 ubiquitin ligase; and LK is a bridge chain linking the two above ligands. The compound prevents virus replication and kills viruses by means of degrading a deoxyribonucleic acid (DNA) polymerase that inhibits the viruses, and thus performs the function of treating and intervening in viral infectious diseases such as hepatitis B and secondary diseases, and the acquired immunodeficiency syndrome.

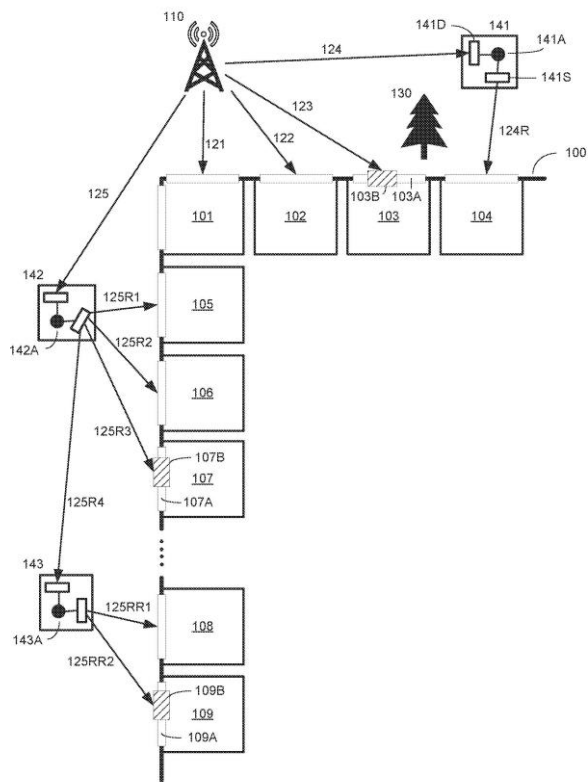


51: H04W

72: CAVCIC, Mersad, DEUTSCH, Brian Mark, MILLS, Brett Daniel, LALWANI, Sameer

## 54: INSTALLATION OF REPEATERS FOR A MILLIMETER WAVE COMMUNICATIONS NETWORK

Mobile communications base stations, such as 5G wireless communications base stations operating at millimeter wave (mmW) frequencies, may have limited spatial coverage due to issues such as limited line of sight or attenuation from foliage or structures. Line of sight and attenuation can be modeled to recommend placement of repeaters for expanded spatial coverage. The repeaters can include open-air repeaters and window repeaters.



51: G06Q

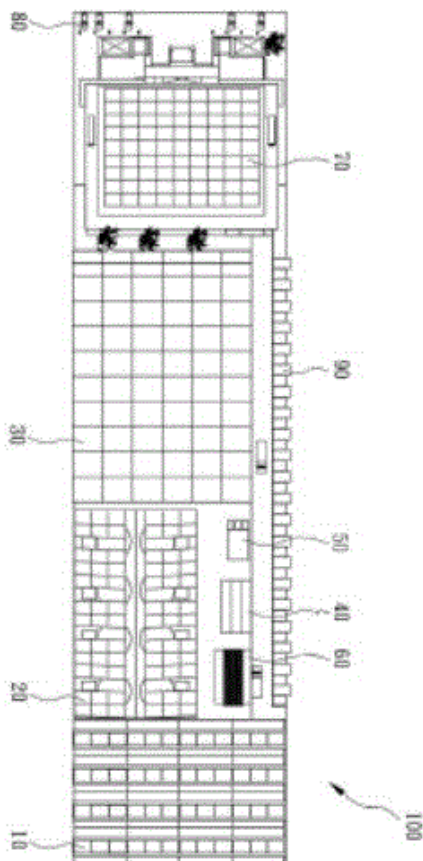
72: YANG, Ching-Chieh

00: -

A configuration system for a green energy agricultural park includes a mushroom cultivation section (10), a super-intensive breeding section (20), a non-toxic vegetable planting section (30), a poultry breeding section (40), a CAS cold chain section (50), a black soldier fly breeding section (60), a goods collection sales section (70), an electric vehicle charging section (80), and a green energy power generation section (90). The green energy power generation section generates electricity and supplies an electric power to the mushroom cultivation section, the super-intensive breeding section, the non-toxic vegetable planting section, the poultry breeding section, the CAS cold chain section, the black soldier fly breeding section, the goods collection sales section, and the electric vehicle charging section. The black soldier fly breeding section breeds black soldier flies to eat agricultural



organic resources produced in the green energy agricultural park and to generate black soldier fly manure.



21: 2023/07921. 22: 2023/08/15. 43: 2024/02/19

51: A61K; C07D; A61P

71: DAY ONE BIOPHARMACEUTICALS, INC.

72: BLACKMAN, Samuel C., VENETSANAKOS, Eleni

33: US 31: 63/151,425 32: 2021-02-19

33: US 31: 63/173,158 32: 2021-04-09

#### **54: COMBINATION OF RAF INHIBITOR AND MEK INHIBITOR**

00: -

Described herein are methods and compositions for treating subjects suffering from cancer. In some aspects, herein is described a method of treating a patient suffering from cancer comprising administering to the subject: (i) (R)-2-(1-(6-amino-5-chloropyrimidine-4-carboxamido)ethyl)-N-(5-chloro-4-(trifluoromethyl)pyridin-2-yl)thiazole-5-carboxamide (Compound A) or a pharmaceutically acceptable salt thereof; and (ii) a MEK inhibitor as provided herein.

In some aspects, the method of treating a subject suffering from cancer comprises: identifying a subject suffering from cancer, wherein the cancer has one or more of: a RAF alteration, a RAS mutation, an NF-1 mutation, or a genomic alteration that results in a dependence on signaling through the MAPK pathway; administering to a subject: (i) (R)-2-(1-(6-amino-5-chloropyrimidine-4-carboxamido)ethyl)-N-(5-chloro-4-(trifluoromethyl)pyridin-2-yl)thiazole-5-carboxamide (Compound A) or a pharmaceutically acceptable salt thereof; and (ii) a MEK inhibitor as provided herein.

21: 2023/07922. 22: 2023/08/15. 43: 2024/02/19

51: H02N

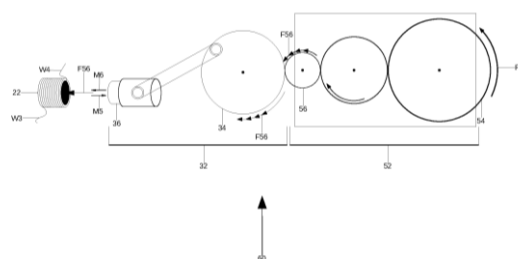
71: AKINBI, Adebayo

72: AKINBI, Adebayo

#### **54: METHOD OF GENERATING ELECTRICAL ENERGY BY IMPACTING PIEZOELECTRIC ELEMENT**

00: -

The disclosed method of generating electrical energy uses a body (36) set in reciprocating motion (M5, M6) to and from a piezoelectric element (22) such that the body is caused to make impact and apply pressure (F56) on the piezoelectric element, thereby developing electrical charge which is collected as electrical energy from the electrodes of the piezoelectric element. A reciprocating mechanism (32), for example, a crank mechanism including rotating member (34) and reciprocating member (36), to convert rotating motion into reciprocating motion, and a gear train (52) for changing input rotational speed, can be included.



21: 2023/07937. 22: 2023/08/16. 43: 2024/03/27

51: E21B

71: THIRD ENGINEERING CO., LTD OF CCCC FIRST HIGHWAY ENGINEERING GROUP, CCCC FIRST HIGHWAY ENGINEERING GROUP CO., LTD

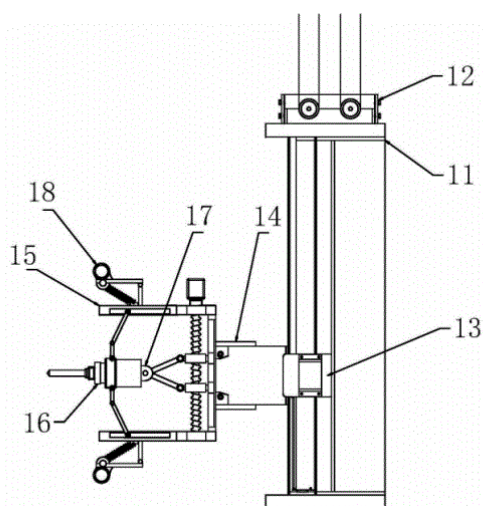


72: Yongwei GUO, Junlin BAI, Zhifei ZHANG, Yong LI, Jianyun LI, Gongxiang SHANG, Song CHENG, Zhiyong SUN, Tianwei TANG, Xinyu YAN, Dengke GUO, Cheng ZHANG, Li WANG, Xiaowei QIAO

**54: AN ANCHOR HOLE DRILLING DEVICE FOR IMPROVING DRILLING ACCURACY**

00: -

The invention discloses an anchor hole drilling device for improving the drilling accuracy, which belongs to the technical field of anchor hole drilling, including an equipment frame, a drilling machine frame set on the equipment frame and a drilling device set on the drilling machine frame, the top of the equipment frame is provided with a lifting frame, the equipment frame is provided with a displacement device, a vertical frame and a lifting track set on the vertical frame, the displacement device is provided with an internal pushing device, the drilling machine frame is provided with a depth adjusting part and an internal frame track and a two-way screw connected with the depth adjusting part, the side edge of the drilling machine frame is provided with a limited position track, and the outer wall of the drilling machine frame is provided with a walking component. The present invention adopts an anchor hole drilling device with the above structure to improve the drilling accuracy, and carries out multi-directional adjustment of the equipment frame to ensure the operation accuracy.



21: 2023/07945. 22: 2023/08/16. 43: 2024/02/19  
51: A61K; C07D; A61P  
71: WUHAN HUMANWELL INNOVATIVE DRUG RESEARCH AND DEVELOPMENT CENTER LIMITED COMPANY

72: ZHANG, Xuejun, CHANG, Shaohua, LI, Xueqiang, YE, Dabing, WANG, Hongqiang, SUN, Hongna, YANG, Jun, LI, Li'e

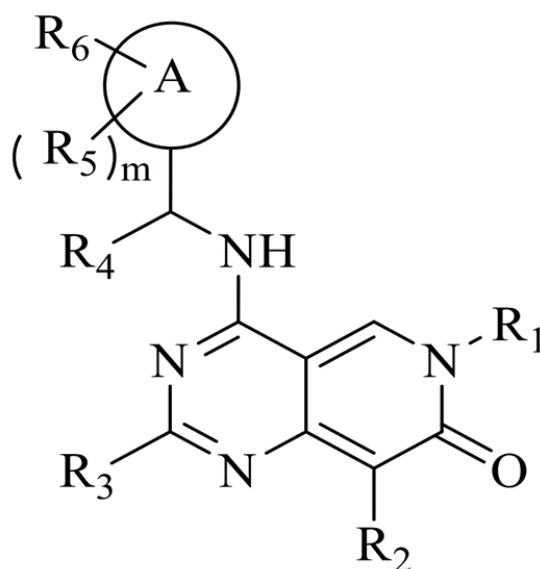
33: CN 31: 202110172372.2 32: 2021-02-08

33: CN 31: 202111315868.7 32: 2021-11-08

**54: PYRIDOPYRIMIDINONE DERIVATIVE, PREPARATION METHOD THEREFOR, AND USE THEREOF**

00: -

A pyridopyrimidinone derivative as represented by formula I, and a tautomer, a stereoisomer, a hydrate, a solvate, a pharmaceutically acceptable salt thereof or a prodrug thereof. The pyridopyrimidinone derivative has a good SOS1 inhibitory effect.



21: 2023/07963. 22: 2023/08/16. 43: 2024/02/19

51: A61K A61P

71: AXCESS (UK) LTD

72: NEW, Roger R.C., TRAVERS, Glen

33: AU 31: 2021900145 32: 2021-01-22

**54: EDTA AND EGTA FOR USE IN PRESERVING THE INTEGRITY OF THERAPEUTIC COMPOUNDS**

00: -

The present invention relates to methods of preserving the integrity of peptides in the gut. In particular, it concerns the use of certain compounds as inhibitors of gut proteases.

21: 2023/07979. 22: 2023/08/17. 43: 2024/02/27

51: A61B; G01N

71: ADLAI NORTYE BIOPHARMA CO., LTD.

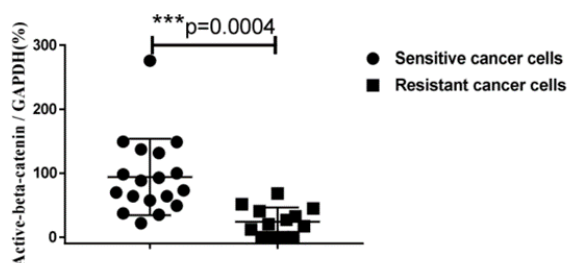
72: HE, Nanhai, WANG, Youping, LIU, Zhihong, CHEN, Yufeng

33: CN 31: 202211002503.3 32: 2022-08-19

#### 54: BIOMARKER AND APPLICATION THEREOF

00: -

The present invention provides an application of non-phosphorylated beta-catenin protein in tumor cells as a biomarker for predicting the responsivity or sensitivity of tumor cells to Wnt pathway inhibitors, a method of using non-phosphorylated beta-catenin protein in tumor cells as a biomarker to predict the responsivity or sensitivity of tumor cells to Wnt pathway inhibitors, a method for treating tumor patients, a method for detecting the content of non-phosphorylated beta-catenin in tumor tissues or tumor cells, and a suitable Wnt inhibitor.



21: 2023/08001. 22: 2023/08/17. 43: 2024/02/21

51: C05C; C05D; C05G

71: YARA UK LIMITED

72: WARD, Stuart, HATHWAY, Laura

33: GB 31: 2102929.3 32: 2021-03-02

#### 54: FERTILIZER PARTICLES COATED WITH A MICRONUTRIENT SOURCE

00: -

The present disclosure relates to the field of fertilizer particles. In particular, it relates to a fertilizer particle comprising a fertilizer core and an outside layer of a conditioning agent comprising which comprises a micronutrient, the compound being dissolved in a solvent, wherein the solvent is selected from the group consisting of glycols, glycol ethers and mixtures thereof; the solvent has a melting point below 15 °C; the solvent represents from about 30 to about 90 weight % of the conditioning agent; and the micronutrient is selected from the group consisting of boron, copper, manganese, molybdenum and zinc. The present disclosure also relates to the method of preparing such a fertilizer particle. In another aspect, the present disclosure relates to a liquid composition, in particular to use as a coating composition.

21: 2023/08006. 22: 2023/08/17. 43: 2024/02/29

51: C07D

71: ANHUI HUAYE SPICE CO., LTD.

72: Jianjun ZHANG, Lidong LIANG, Zheng ZHANG, Yunfei HE

33: CN 31: 2022113123470 32: 2022-10-25

#### 54: NOVEL METHOD FOR PREPARING $\gamma$ -HEPTALACTONE

00: -

The present disclosure relates to a novel method for preparing  $\gamma$ -heptalactone, which belongs to the technical field of perfume preparation and includes the following steps: reacting triethyl phosphonoacetate and furfural as raw materials under the action of an alkaline catalyst A to obtain an ethyl 2-furoacrylate intermediate; and hydrocyclizing the ethyl 2-furoacrylate intermediate under the action of a highly active metal catalyst B at controlled pressure and temperature to obtain the  $\gamma$ -heptalactone; i.e., subjecting the triethyl phosphonoacetate as a raw material and the furfural of which the raw material is easily available to a Horner-Wadsworth-Emmons reaction under an alkaline condition to synthesize the ethyl 2-furoacrylate intermediate, and then hydrogenating the intermediate with a highly active metal as a catalyst to obtain the  $\gamma$ -heptalactone. The present disclosure has the advantages of low price of the synthesized raw materials, relatively high product yield, high purity of products without isomers, simple reaction conditions, a simple process route and a very high industrial application value.

21: 2023/08033. 22: 2023/08/18. 43: 2024/02/21

51: A61K; A61P

71: XIAMEN AMOYTOP BIOTECH CO., LTD., BIOSTEED GENE TRANSFORMATION TECH. CO., LTD.

72: LIAO, XIAOJIN, WU, HANZHOU, CHU, HONGRAN, ZHU, PEIJUAN, XIAO, QINGJIANG, ZHANG, TINGTING, YIN, FENGHONG, WU, LINYING, ZHUANG, LU, ZHOU, WEIDONG, SUN, LI

33: CN 31: 202110084507.X 32: 2021-01-21

#### 54: METHOD AND PHARMACEUTICAL COMBINATION FOR PREVENTING CANCER RECURRENCE

00: -

The present disclosure relates to the field of biomedicine, and specifically provides a method for

preventing cancer recurrence. The method comprises: administering an interferon-based therapeutic agent to a subject in need thereof, preferably intermittently administering the interferon-based therapeutic agent, and optionally administering an additional anti-cancer agent. Further provided is a pharmaceutical combination for use in the method.

21: 2023/08034. 22: 2023/08/18. 43: 2024/02/21  
51: A61K; A61P  
71: XIAMEN AMOYTOP BIOTECH CO., LTD.,  
BIOSTEED GENE TRANSFORMATION TECH. CO.,  
LTD.

72: ZHUANG, LU, ZHU, PEIJUAN, XIAO,  
QINGJIANG, CHU, HONGRAN, LIN, CHONGYANG,  
XIAO, XIAOXUE, XIA, QIUJU, WU, HANZHOU,  
LIAO, XIAOJIN, ZHOU, WEIDONG, SUN, LI  
33: CN 31: 202110083614.0 32: 2021-01-21

#### **54: INTERFERON-BASED CANCER TREATMENT METHOD, AND PHARMACEUTICAL COMBINATION**

00: -

An interferon-based cancer treatment method, and a pharmaceutical combination. Specifically, the present invention relates to an interferon-based cancer treatment method, comprising i) intermittently administering an interferon-based therapeutic agent to a subject, and ii) administering an additional anti-cancer agent, preferably gemcitabine, wherein the additional anti-cancer agent is administered after the first administration of the intermittent administration of the interferon-based therapeutic agent.

21: 2023/08035. 22: 2023/08/18. 43: 2024/02/21  
51: A61K; A61P  
71: NEURODAWN PHARMACEUTICAL CO., LTD.  
72: ZHANG, ZHENGPING, WANG, LEI, CHEN,  
RONG

#### **54: APPLICATION OF RILUZOLE- AND BORNEOL-CONTAINING COMPOSITION IN PREPARATION OF MEDICATION FOR TREATING CEREBROVASCULAR DISEASES**

00: -

A composition applied to preparation of a medicament for treating cerebrovascular diseases, in particular ischemic cerebrovascular diseases. The composition contains 2-amino-6-trifluoromethoxybenzothiazole or a pharmaceutically acceptable salt thereof and borneol. By means of the

compatibility between 2-amino-6-trifluoromethoxybenzothiazole and d-borneol, according to non-clinical cell test and animal efficacy test results, for cerebrovascular diseases, 2-amino-6-trifluoromethoxybenzothiazole and d-borneol have the effect of synergistically increasing efficacy.

21: 2023/08036. 22: 2023/08/18. 43: 2024/02/21  
51: G01N

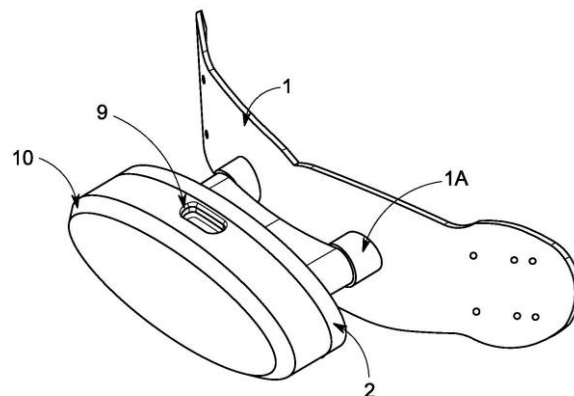
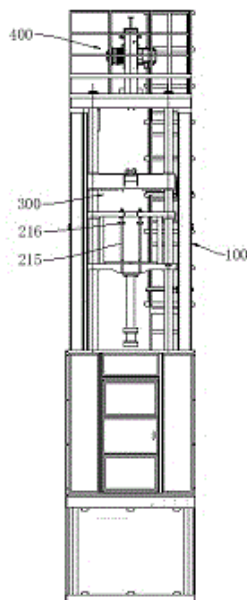
71: CCTEG COAL MINING RESEARCH INSTITUTE  
72: WU, YONGZHENG, FU, YUKAI, HE, JIE, HAO,  
DENG YUN

33: CN 31: 202110166190.4 32: 2021-02-03

#### **54: MULTIFUNCTIONAL TEST BENCH FOR IMPACT LOAD TESTING OF MINING SUPPORT MATERIAL AND TEST METHOD**

00: -

A multifunctional test bench for impact load testing of a mining support material, comprising: a main frame (100); a main hammer body (200); a hammer lifting device (300), provided above the main hammer body, slidably connected to the main frame in a vertical direction, and suitable for being switched between a state of being connected to the main hammer body and a state of being separated from the main hammer body; a lifting device (400), connected to the hammer lifting device and suitable for driving the hammer lifting device to vertically slide; a sample fixing device, suitable for disposing a part to be tested (1000) on a falling path of the main hammer body; and a monitoring system. A test method for the multifunctional test bench for impact load testing of the mining support material is further disclosed. According to the multifunctional test bench for impact load testing of the mining support material and the test method, impact load testing of parts to be tested such as an anchor rod, an anchor cable, a metal mesh, a steel strip, and an anchoring body can be realized, and impact resistance mechanical properties of parts to be tested of different mining support materials are disclosed by means of the test, thereby providing test data for optimization of a support material of a rock burst roadway.



21: 2023/08046. 22: 2023/08/18. 43: 2024/02/21  
51: A61B; A61F

71: KAHN, Sandra Vivian, ENGELKE, Wilfried  
Gerhard Hermann

72: KAHN, Sandra Vivian, ENGELKE, Wilfried  
Gerhard Hermann

33: US 31: 63/143,399 32: 2021-01-29

**54: DEVICE FOR DETERMINING TONGUE  
POSITION BY MEASURING NEGATIVE  
PRESSURE IN THE ORAL CAVITY, FOR  
MEASURING INHALATION PRESSURE IN THE  
NASOPHARYNGEAL CAVITY, AND ASSOCIATED  
TERMINAL**

00: -

The invention relates to a device for determining the position of the tongue from the measurement of the vacuum pressure in an oral cavity generated by deglutition, comprising an intraoral shield intended for being arranged in the oral cavity, a conduit connectable at a first end to the intraoral shield and at a second end to a pressure gauge, in turn coupleable to a base, and an electronic module coupleable to the base. The electronic module is in data communication with the pressure gauge and comprises a processing unit, such that in an operating condition of the device, the intraoral shield is configured for blocking interdental spaces in the oral cavity and the conduit establishes fluid communication between the interior of the oral cavity and the pressure gauge, such that the negative pressure generated by deglutition is measured by said pressure gauge.

21: 2023/08071. 22: 2023/08/21. 43: 2024/02/21

51: A01B; A01C

71: Ausplow Pty. Ltd.

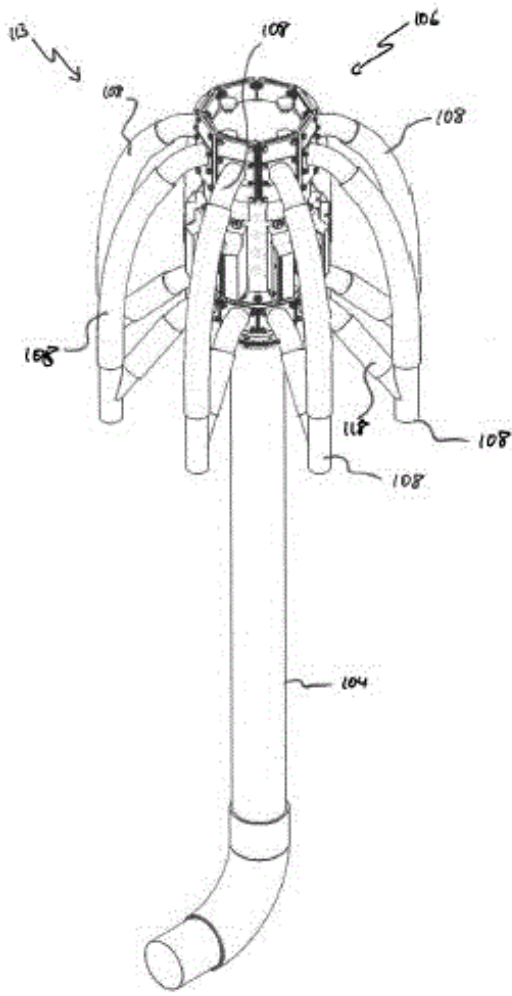
72: RYAN, John William, LOVELL, Brett Forbes

33: AU 31: 2022902397 32: 2022-08-22

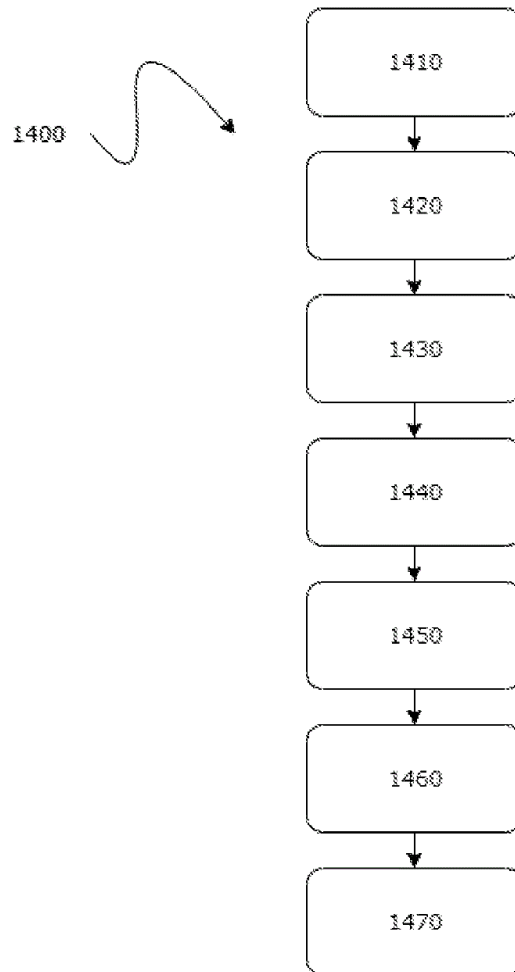
**54: SECTION CONTROL SYSTEM**

00: -

An assembly to distribute flowable particulate material, the assembly including: a conduit and an airstream to move the material along the conduit to a delivery downstream destination; a separator to engage the airstream to concentrate the material in a concentrated portion of the airstream, the separator being positioned within the conduit; an output connected to the conduit downstream of the separator to receive the material and deliver it to the downstream destination; an air distribution head in constant fluid communication with the separator to receive the separated portion of the air stream and also in constant fluid communication with the output; a control device operatively associated with the output to selectively deliver a pre-determined rate of the material to the downstream destination; and a mixing conduit between the separator and the output, guiding the concentrated portion of the airstream to the output and allowing the material to mix more evenly.



using a variety of modified energy-efficient tracks that allows motor vehicles to move along these routes in an energy-efficient way, in accordance with user's needs.



21: 2023/08090. 22: 2023/08/21. 43: 2024/02/21

51: G01C; B60W

71: "OMNICOMM ONLINE" LIMITED LIABILITY COMPANY

72: PANKOV, Boris Valerevich

33: RU 31: 2022101929 32: 2022-01-28

**54: METHOD FOR GENERATING A MODIFIED ENERGY-EFFICIENT DRIVING ROUTE FOR THE VEHICLE IN OPERATION**

00: -

The proposed invention relates to methods for controlling energy consumption by a motor vehicle, and can be used in transportation industry. The technical problem to be solved by the claimed invention is to provide a method, a device, a system, a motor vehicle, and a computer-readable medium that do not possess the drawbacks of the prior art and thus make it possible to generate a modified energy-efficient driving route for a motor vehicle

21: 2023/08091. 22: 2023/08/21. 43: 2024/02/26

51: G01C; G08G; B60W

71: "OMNICOMM ONLINE" LIMITED LIABILITY COMPANY

72: PANKOV, Boris Valerevich

33: RU 31: 2021122338 32: 2021-07-27

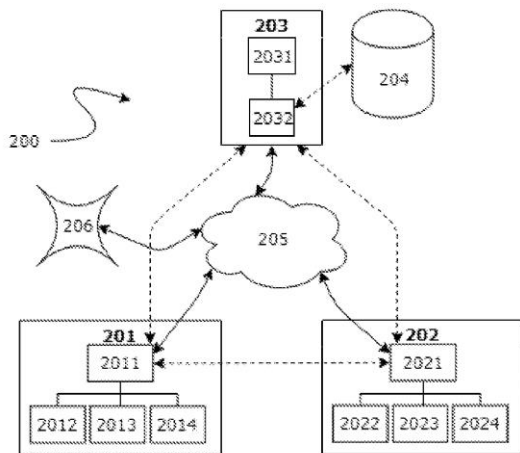
**54: METHOD FOR GENERATING AN ENERGY-EFFICIENT TRACK FOR A VEHICLE**

00: -

The proposed invention relates to methods for controlling energy consumption by a motor vehicle, and can be used in transportation industry. The technical problem to be solved by the claimed invention is to provide a method, a device, a system, a motor vehicle, and a computer-readable medium



that do not possess the drawbacks of the prior art and thus make it possible to generate an accurate energy-efficient track for a motor vehicle that allows to reduce energy consumption by the motor vehicle moving along a portion of the route that contains a mandatory deceleration point, including portions of the route that are located in urban areas.



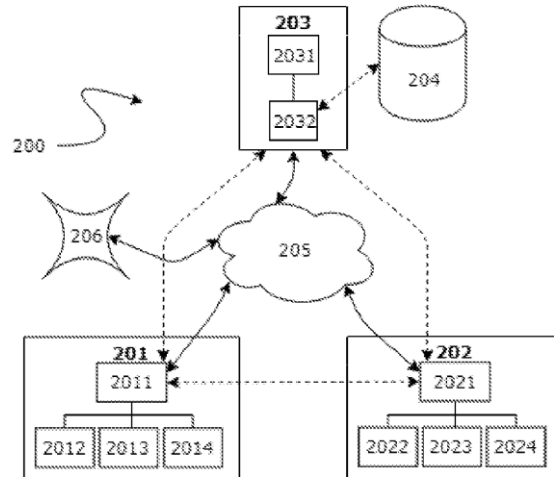
21: 2023/08092. 22: 2023/08/21. 43: 2024/02/15  
51: F03G; G01C; G08G; B60W  
71: "OMNICOMM ONLINE" LIMITED LIABILITY COMPANY

72: PANKOV, Boris Valerevich  
33: RU 31: 2021135842 32: 2021-12-06

#### **54: SYSTEM FOR GENERATING A RECUPERATION ENERGY-EFFICIENT TRACK FOR THE VEHICLE**

00: -

The proposed invention relates to methods for controlling energy consumption by a motor vehicle, and can be used in transportation industry. The technical problem to be solved by the claimed invention is to provide a method, a device, a system, a motor vehicle, and a computer-readable medium that do not possess the drawbacks of the prior art and thus make it possible to generate an accurate energy-efficient track for a motor vehicle that allows to reduce energy consumption by the 15 motor vehicle moving along a portion of the route that contains a possible deceleration point, which can be used as an activation point for the vehicle's recuperation system.



21: 2023/08093. 22: 2023/08/21. 43: 2024/02/21  
51: B60K; B60W

71: "OMNICOMM ONLINE" LIMITED LIABILITY COMPANY

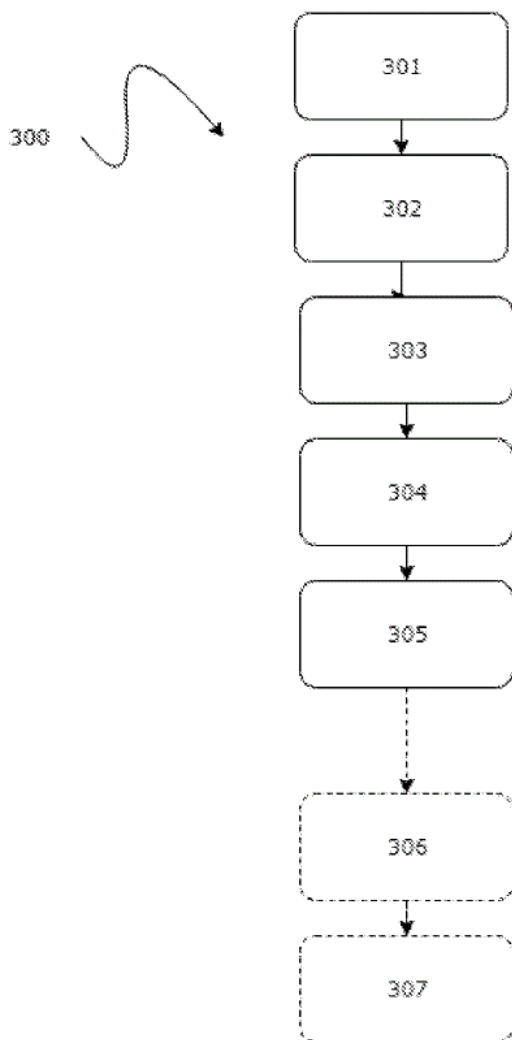
72: PANKOV, Boris Valerevich

33: RU 31: 2021114615 32: 2021-05-24

#### **54: METHOD FOR GENERATING AN ENERGY-EFFICIENT TRACK FOR A VEHICLE**

00: -

The proposed invention relates to methods for controlling energy consumption by a motor vehicle, and can be used in transportation industry. The technical problem to be solved by the claimed invention is to provide a method and a non-transitory computer-readable medium that do not possess the drawbacks of the prior art and thus make it possible to generate an accurate energy-efficient track for a motor vehicle that allows to reduce energy consumption by the motor vehicle moving along a highway, including as part of a convoy.



21: 2023/08109. 22: 2023/08/22. 43: 2024/02/27  
51: B01D; B08B; B22F; C22C

71: YUZHOU XIN JIAHUI NEW MATERIALS  
TECHNOLOGY CO., LTD.

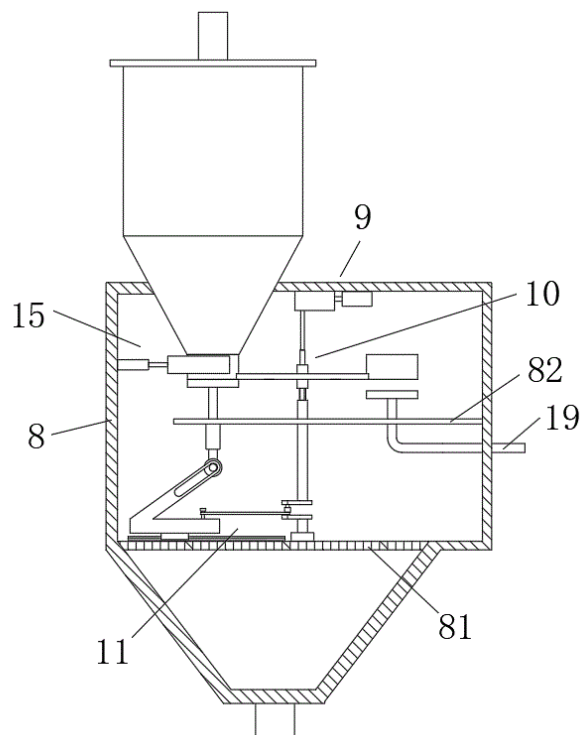
72: FENG, CANJUN, AN, NING

#### **54: METHOD FOR PREPARING NI-CO ALLOY MATERIAL**

00: -

Provided is a method for preparing Ni-Co alloy material, including the following steps: mixing a mixture of metal nickel salt and metal cobalt salt with pure water to prepare an aqueous solution of 1-2 mol/L; adding an alcoholic solvent to the aqueous solution, and stirring evenly to obtain a mixed solution, and a weight ratio of the aqueous solution to the alcoholic solvent is 1:0.3-1; and inputting the mixed solution into an electric furnace for reacting under vacuum for 2 h-4 h to obtain nickel-cobalt

powder, and the heating temperature of the electric furnace is controlled at 600-1000C. Compared with the traditional high-pressure hydrothermal hydrogen reduction method, the preparation procedures of the present invention are continuous and controllable, fewer materials are added and the manufacturing cost is greatly reduced.



21: 2023/08110. 22: 2023/08/22. 43: 2024/02/22

51: A47J

71: STYLE IN STAINLESS CC T/A STEELCRAFT

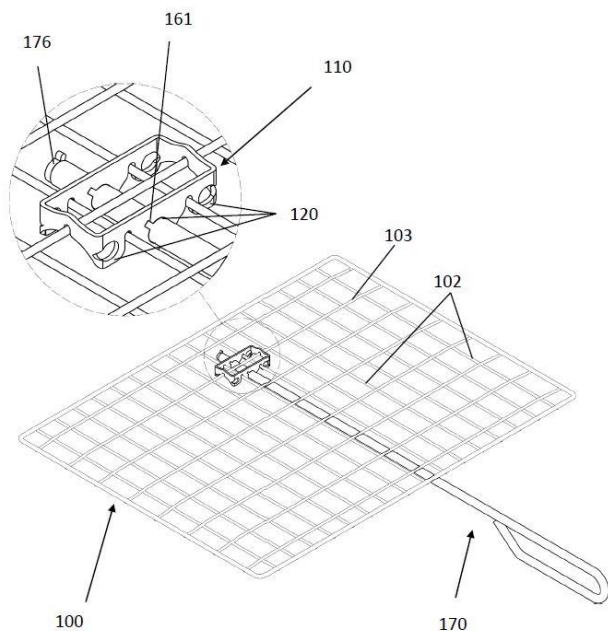
72: MARX, Jacobus Jerimias, LOURENS, Wilhelm

#### **54: A HANDLE CONNECTOR FOR A BARBECUE GRID**

00: -

The present disclosure relates to a connector for releasably connecting a handle to a barbecue grid having bars. The connector may comprise a body configured to be releasably secured to at least two bars of the barbecue grid, and at least one receiving formation defined in the body. The receiving formation may be configured to releasably receive the handle. The disclosure extends to a handle assembly comprising a handle and a connector, wherein the connector is configured to releasably connect the handle to the barbecue grid. The disclosure further extends to a barbecue kit

comprising a handle assembly and a barbeque grid having bars.

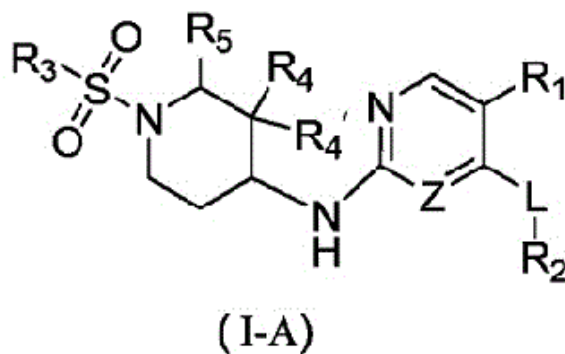


21: 2023/08118. 22: 2023/08/22. 43: 2024/02/22  
 51: C07D; A61K; A61P  
 71: SHANGHAI QILU PHARMACEUTICAL RESEARCH AND DEVELOPMENT CENTRE LTD.  
 72: YAN, XIAOXIA, SUN, DAQING  
 33: CN 31: 202111062178.5 32: 2021-09-10  
 33: CN 31: 202110483256.2 32: 2021-04-30  
 33: CN 31: 202111398260.5 32: 2021-11-19  
 33: CN 31: 202110161786.5 32: 2021-02-05  
 33: CN 31: 202210048365.6 32: 2022-01-17

#### 54: CDK INHIBITOR

00: -

A compound serving as a selective CDK inhibitor, a pharmaceutical composition containing same, a useful intermediate for preparing the compound, and a use of the compound for preparing a drug for the treatment of cell proliferative diseases, such as cancer. The compound has the structure shown in formula (I-A).



21: 2023/08124. 22: 2023/08/22. 43: 2024/02/27

51: G06F

71: Idemia Identity & Security France

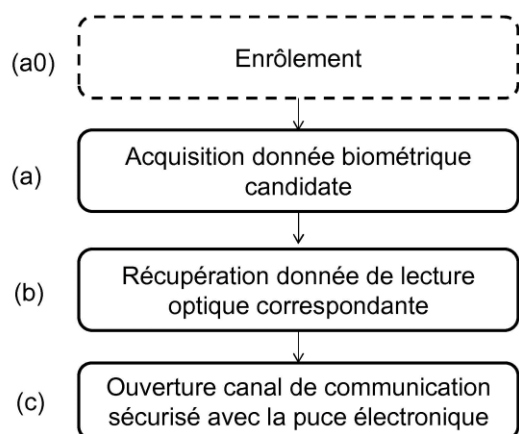
72: MERCIER, Laurent, DUVILLE, Pascal, VAN PROOIJEN, Joost, VIELLEPEAU, Joel

33: FR 31: 2102940 32: 2021-03-24

#### 54: METHOD FOR CHECKING INDIVIDUALS WITH SIMPLIFIED AUTHENTICATION

00: -

The invention relates to a method for checking an individual having an identity document on a support comprising an electronic chip in which is stored a reference biometric datum of the individual and able to display an automatic read region representing an optical read datum of the identify document, the method comprising the implementation, by a checking device (30), of steps of: (a) acquiring a candidate biometric datum regarding a biometric characteristic of the individual; (b) based on the candidate biometric datum, retrieving, from a memory (20), an optical read datum associated with the reference biometric datum corresponding to the biometric characteristic of the individual; (c) opening a secure communication channel with the electronic chip of the support for the individual's identity document using said optical read datum that has been retrieved.

**FIG. 2**

- (a0) Enrolment  
 (a) Acquiring candidate biometric datum  
 (b) Retrieving corresponding optical read datum  
 (c) Opening secure communication channel with the electronic chip

21: 2023/08151. 22: 2023/08/23. 43: 2024/03/13  
 51: H04R; H04S

71: FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V.

72: WALTHER, Andreas, FALLER, Christof, HERRE, Jürgen, SCHMIDT, Markus, BORSS, Christian, KLAPP, Julian, GÖTZ, Philipp

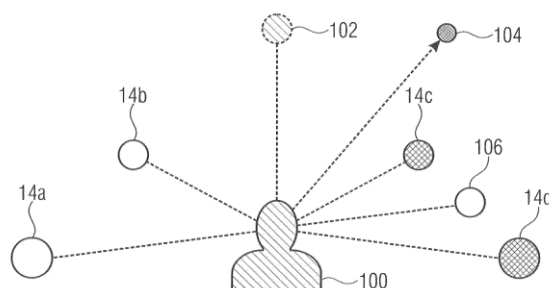
33: EP 31: PCT/EP2021/054853 32: 2021-02-26

#### **54: APPARATUS AND METHOD FOR RENDERING AUDIO OBJECTS**

00: -

A more efficient rendering of audio objects, which allows 3D panning, is achieved by performing the panning into two stages, namely at least one horizontal in-layer panning leading to a first virtual (speaker) position and a second virtual or real (speaker) position, which is vertically offset, and another panning vertically between the two positions. Although acting in such a manner seems to increase the computational complexity, this staged processing increases, in fact, the stability of the rendering and the location of the intended virtual position. Moreover, the staged processing, enables to perform, according to an embodiment, the panning by use of amplitude panning gains only, i.e. phase processing is not necessary, thereby rendering the computational complexity low. Even

further, the rendering is flexible with respect to applicability to a variety of loudspeaker setups.



21: 2023/08192. 22: 2023/08/24. 43: 2024/02/26  
 51: H04N

71: MOBII SYSTEMS (PTY) LTD

72: THACKER, Michael Don, BARRETT, Brendan

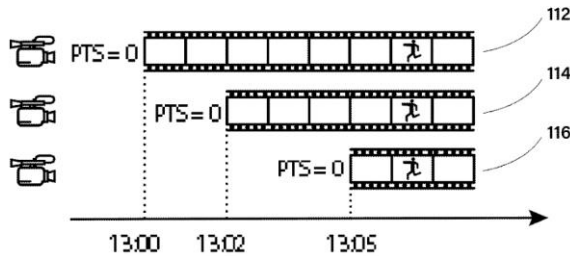
33: ZA 31: 2021/01483 32: 2021-03-04

#### **54: A METHOD OF PROVIDING A TIME-SYNCHRONIZED MULTI-STREAM DATA TRANSMISSION**

00: -

A method of providing a time-synchronized multi-stream data transmission includes the steps of: (i) providing a first recording or generating device for providing frames of a first data stream; (ii) encoding the first data stream into packets, wherein each first data stream packet includes a presentation time and a predetermined number of first data stream frames; (iii) providing a second recording or generating device for providing frames of a second data stream; (iv) encoding the second data stream into packets, wherein each second data stream packet includes a presentation time and a predetermined number of second data stream frames; (v) transmitting the first and second data streams to a processing device; (vi) associating a start reference time with the first packet of the first and second data streams transmitted; (vii) assigning a first stream start time to the first packet of the first data stream transmitted and a second stream start time to the first packet of the second data stream transmitted; (viii) associating a first time offset from the start reference time and first data stream start time (either directly or indirectly) with each subsequent packet of the first data stream and associating a second time offset from the start reference time and second data stream start time (either directly or indirectly) with each subsequent packet of the second data stream;

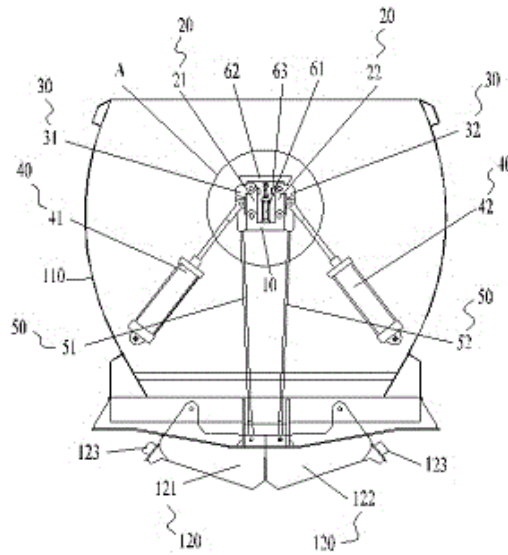
(ix) time-aligning the first data stream packets with the second data stream packets using the first time offset associated with the first data stream and using the second time offset associated with the second data stream; and (x) applying a common presentation time to the aligned first and second data stream packets, irrespective of the original presentation time of the first and second data streams.



21: 2023/08194. 22: 2023/08/24. 43: 2024/02/26  
51: B61D  
71: CRRC QIQIHAR ROLLING STOCK CO., LTD.  
72: LI, PEI, LING, CHUNYING, JIA, ZHIXUE,  
WANG, BAOLEI, SUN, WEI, ZHOU, XUE  
33: CN 31: 202111447690.1 32: 2021-11-30  
**54: VEHICLE DOOR OPENING AND CLOSING  
APPARATUS AND VEHICLE**  
00: -

Provided are a vehicle door opening and closing apparatus and a vehicle. The vehicle door opening and closing apparatus includes that: a base is arranged on a vehicle body and spaced from a vehicle door; a first end of a first connecting rod is hinged with the base; a first end of a second connecting rod is hinged with a second end of the first connecting rod; a driving member includes a telescopic driving rod, a first end of the driving member is hinged with the second connecting rod, and a second end of the driving member is connected with the vehicle body; and a first end of a connecting member is connected with a second end of the second connecting rod, and a second end of the connecting member is hinged with the vehicle door. When the driving member is in a stretching state, the first connecting rod is located on a side, away from the vehicle door, of the base and enables the vehicle door to be in a closed position. When the driving member is in a retracted position, the first connecting rod swings outwards relative to the base and enables the vehicle door to be in an open

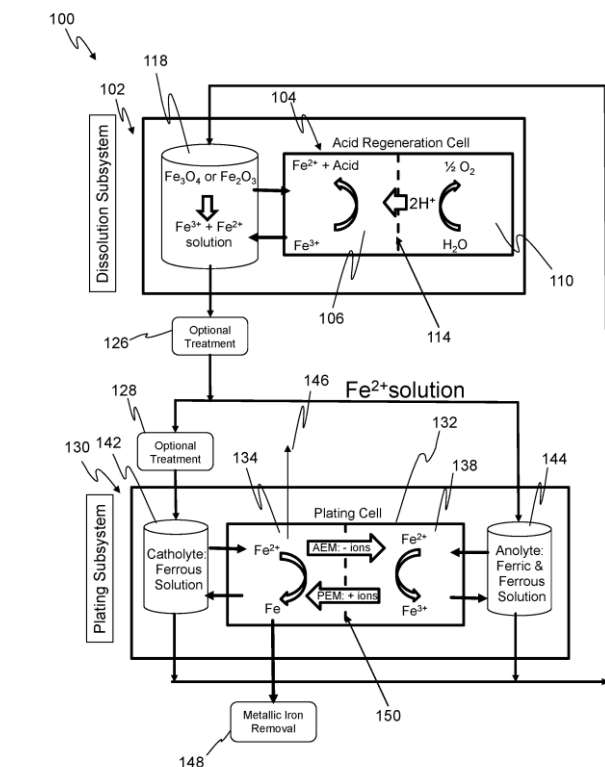
position. According to the technical solution, the problems that, in a related art, a bottom door opening and closing apparatus is complex in structure and inconvenient to overhaul and maintain are effectively solved.



21: 2023/08222. 22: 2023/08/25. 43: 2024/03/01  
51: C21B  
71: ELECTRASTEEL, INC.  
72: PHAM, Ai Quoc, NIJHAWAN, Sandeep,  
ALVAREZ, Adolfo, WALLACE, Colleen, FATUR,  
Steven  
33: US 31: 63/165,502 32: 2021-03-24  
**54: IRON CONVERSION SYSTEM AND  
APPLICATIONS**  
00: -

Methods and systems for producing iron from an iron-containing ore are disclosed. For example, a method for producing iron comprises: providing an iron-containing ore to a dissolution subsystem comprising a first electrochemical cell and a dissolution tank; dissolving the iron-containing ore to form an acidic iron-salt solution; reducing  $\text{Fe}^{3+}$  ions to form  $\text{Fe}^{2+}$  ions and electrochemically generating protons in the first electrochemical cell; circulating solution between the dissolution tank and the first electrochemical cell; transferring formed  $\text{Fe}^{2+}$  ions from the dissolution subsystem to an iron-plating subsystem having a second electrochemical cell; second electrochemically reducing a first portion of the transferred formed  $\text{Fe}^{2+}$  ions to Fe metal at a second cathode of the second electrochemical cell; and removing the Fe metal. The methods and systems optionally include removing one or more impurities found in the feedstock.



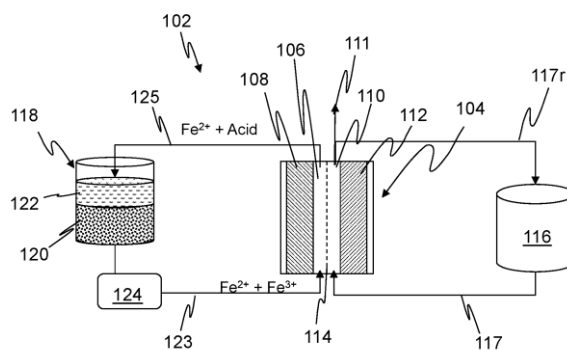


21: 2023/08225. 22: 2023/08/25. 43: 2024/03/05  
51: C01G; C04B; H01F  
71: ELECTRASTEEL, INC.  
72: PHAM, Ai Quoc, NIJHAWAN, Sandeep,  
ALVAREZ, Adolfo, FATUR, Steven  
33: US 31: 63/165.502 32: 2021-03-24

## 54: ORE DISSOLUTION AND IRON CONVERSION SYSTEM

00: -

Methods and systems for dissolving an iron-containing ore are disclosed. For example, a method of processing and dissolving an iron-containing ore comprises: thermally reducing one or more non-magnetite iron oxide materials in the iron-containing ore to form magnetite in the presence of a reductant, thereby forming thermally-reduced ore; and dissolving at least a portion of the thermally-reduced ore using an acid to form an acidic iron-salt solution; wherein the acidic iron-salt solution comprises protons electrochemically generated in an electrochemical cell.



21: 2023/08237. 22: 2023/08/25. 43: 2024/03/01  
51: C01G; B82Y

71: ELECTRASTEEL, INC.

72: PHAM, Ai Quoc, NIJHAWAN, Sandeep,

ALVAREZ, Adolfo, FATUR, Steven

33: US 31: 63/165,502 32: 2021-03-24

54: IMPURITY REMOVAL IN AN IRON  
CONVERSION SYSTEM

00: -

Methods and systems for producing iron from an iron-containing ore and removing impurities found in the iron-containing ore are disclosed. For example, a method for producing iron comprises providing a feedstock having an iron-containing ore and one or more impurities to a dissolution subsystem comprising a first electrochemical cell; producing an iron-rich solution, in the dissolution subsystem; treating the iron-rich solution to remove at least a portion of one or more impurities by raising a pH of the iron-rich solution from an initial pH to an adjusted pH thereby precipitating at least a portion of the one or more impurities in the treated iron-rich solution; delivering the treated iron-rich solution to an iron-plating subsystem having a second electrochemical cell; second electrochemically reducing at least a first portion of the transferred formed  $\text{Fe}^{2+}$  ions to Fe metal; and removing the Fe metal from the second electrochemical cell thereby producing iron.

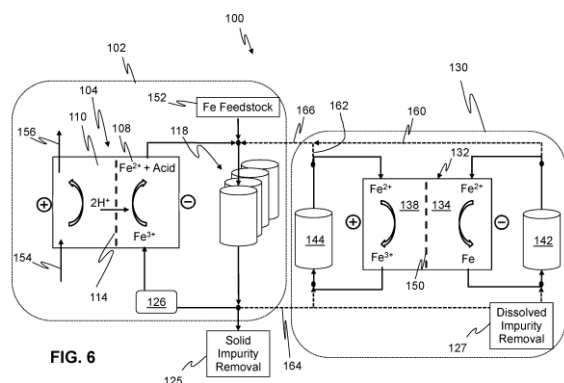


FIG. 6

21: 2023/08238. 22: 2023/08/25. 43: 2024/03/05

51: C02F; E04H

71: ROQUA, Nicole

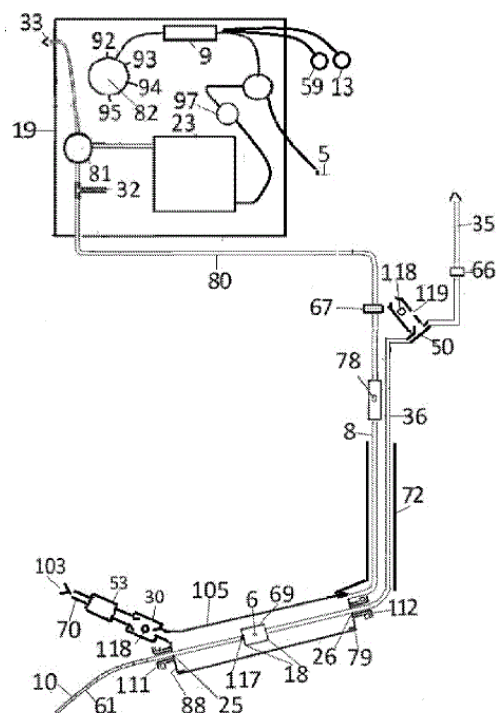
72: ROQUA, Nicole

33: FR 31: 2100919 32: 2021-01-31

#### 54: OVERALL DISINFECTION PROCEDURE WITH NATURAL REGULATION OF BATHING POOL WATER

00: -

The present invention relates to a novel method for completely disinfecting bathing pools with natural water regulation, alternately during the day and night, in a manner which is discontinuous and instantaneous by mass effect with  $n$  injections of limited number, the volume of each injection being defined by the experimental function  $C \cdot f_n, e(X)$ , allowing an optimum night-time disinfection to be achieved with natural daytime regulation in compliance with the permitted disinfection rate, eliminating the need for physico-chemical checks on the water, and allowing the process to be controlled with a single synthesis parameter by means of a preferential device [Fig. 12] which may or may not be supplied with autonomous energy, and which comprises a box (19) of connected and/or manual controls, such as the programming commutator (82) and the multi-way valve (81), automatically controlling by compressed air, in situ or remotely, the metering operations by static gauges (105), which are specific to the method, with a volume pre-adjustable by means of a rule (10) and/or by parametrising  $n$ .



21: 2023/08254. 22: 2023/08/28. 43: 2024/03/01

51: F16H

71: WECHAI LOVOL INTELLIGENT

AGRICULTURAL TECHNOLOGY CO., LTD.

72: WANG, Banghao, HAN, Jingwen, YIN, Qisheng, HE, Song, QI, Wenzheng, LI, Pengfei, ZHANG, Wanqing, LIU, Chengbo

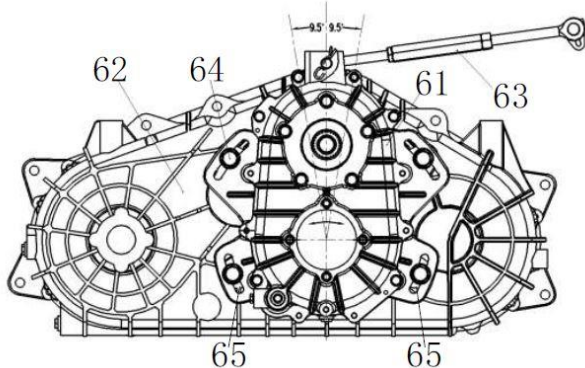
33: CN 31: 202211332311.9 32: 2022-10-28

#### 54: DOUBLE-ROLLER DUAL GEAR TRANSMISSION BOX AND DOUBLE-LONGITUDINAL AXIAL FLOW HARVESTER

00: -

Some embodiments of the disclosure provide a double-roller dual-gear transmission box and a double-longitudinal axial flow harvester. According to the double-roller dual-gear transmission box, an input shaft is mounted in an input dual-gear box assembly, a first-gear driving gear and a second-gear driving gear are mounted on the input shaft, and a shift fork shaft is mounted in the input dual-gear box assembly; a shift fork is mounted on the shift fork shaft, and the shift fork is connected with an engagement sleeve; a first end of the second shaft is rotatably mounted in the input dual-gear box assembly, and a second end of the second shaft is rotatably mounted in the output box assembly; the engagement sleeve, a first-gear driven gear, and a

second-gear driven gear are mounted on a first shaft section portion of the second shaft.



21: 2023/08255. 22: 2023/08/28. 43: 2024/03/07  
51: A01D

71: WECHAI LOVOL INTELLIGENT  
AGRICULTURAL TECHNOLOGY CO., LTD.

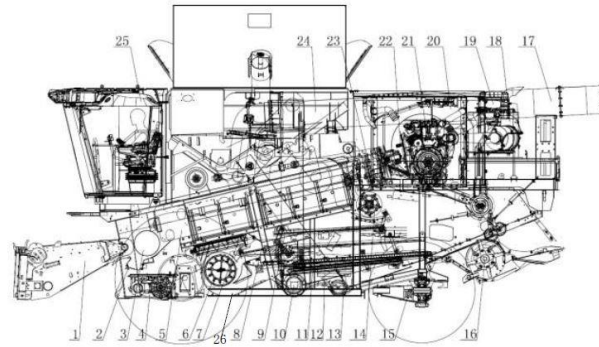
72: WANG, Guimin, HE, Song, ZHU, Yongfeng,  
ZHU, Xianxue, QIN, Yongfeng, CHEN, Fangyong,  
LI, Jianxiang, WU, Xiaowei, HAN, Xinhua, QI,  
Wenzheng, ZHENG, Yuenan

33: CN 31: 202211334784.2 32: 2022-10-28

#### **54: GRAIN COMBINE HARVESTER**

00: -

Some embodiments of the present invention provide a grain combine harvester. The grain combine harvester includes: a body, a pair of axial-flow drums, an engine, and a transfer case, where the pair of axial-flow drums are mounted on the body, the pair of axial-flow drums are arranged adjacent to each other in parallel, the engine and the transfer case are both mounted on the body, the engine is connected to the transfer case, and the pair of axial-flow drums are both connected to the transfer case. An integrated transmission case and a built-in wet clutch structure are used for drum transmission, and a traditional belt clutch structure is eliminated, so as to simplify transmission and improve reliability of the entire harvester.



21: 2023/08306. 22: 2023/08/29. 43: 2024/03/11  
51: B60R; G08B

71: MKHOHLIWE, Shaun Sipumeze

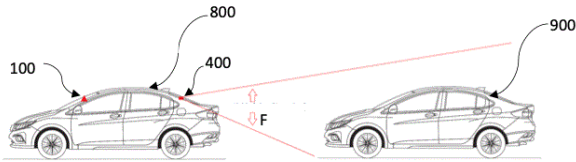
72: MKHOHLIWE, Shaun Sipumeze

33: ZA 31: 2022/06219 32: 2022-06-06

#### **54: HIJACK PREVENTION MONITORING SYSTEM AND METHOD**

00: -

THIS invention relates to a hijack prevention monitoring system and method. More particularly, the invention relates to a system and method for monitoring a field of view rearwardly of a user's vehicle to detect if a pursuing vehicle remains in pursuit following a predetermined number of user vehicle direction changes, thereby to alert the user that the pursuing vehicle is a possible hijack or safety threat. The hijack prevention monitoring system and method captures images and/or videos of pursuing vehicles in a field of view rearwardly of a user vehicle, through automatic license plate recognition extracts from the license plate of the pursuing vehicle a machine-readable alphanumeric registration number text string, stores the alphanumeric registration number text string against a registration number count and change of direction data as obtained from a direction detection module on the user vehicle and increments the registration number count associated with the alphanumeric registration number text string each time the occurrence of the same alphanumeric registration number text string is recorded by the processing unit post receipt of a change in direction of the user vehicle. In the event of the registration number count exceeding a predefined threshold, the method and system trigger an alarm to output a user alert, thereby to warn a user of the user vehicle that the pursuing vehicle is a suspicious vehicle and a possible hijack or safety threat.



21: 2023/08313. 22: 2023/08/29. 43: 2024/03/06

51: A44C

71: George Bernard Pallas

72: George Bernard Pallas

#### **54: A BODY PIERCING GUN**

00: -

A body piercing gun comprising a grip assembly, a gun chamber movable about its longitudinal axis between a rear loaded and forward deployed position, a tensioning means for maintaining the chamber under tension, a trigger means for releasing the chamber from the loaded position; an arm protruding from the front of the gun, the free-end of the arm having a protruding back-plate, wherein the backplate is aligned with the chamber to prevent a piercing implement se-cured about the chamber from passing beyond the backplate when deployed, in use. The gun comprises an upright muzzle flange at its muzzle end; and the flange comprises at least one internal protrusion which serves as a positioning sight for more accurate placement of the gun by a user.

21: 2023/08318. 22: 2023/08/29. 43: 2024/03/01

51: B29B; F27B

71: OPTIFLUX TECH INNOVATIONS PRIVATE LIMITED

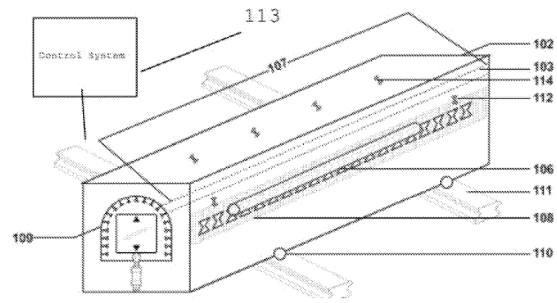
72: BORANA, Amit, RANJAN, Vivek

33: IN 31: 202111019032 32: 2021-04-26

#### **54: SYSTEM AND PROCESS TO HEAT PREFORMED PLASTIC PIPES**

00: -

The present application relates to system and process of infrared heating system, wherein the system and process comprises an infrared housing unit equipped with a plurality of infrared heating elements (103) arranged in a plurality of longitudinal strip (107N). The longitudinal length of the infrared housing unit is greater than the longitudinal length of preformed tube (106). It also comprises a handling arrangement of a plurality of rollers (202) on which the preformed plastic pipes (106) oscillate along and rotate around the longitudinal axis of the preformed plastic pipes simultaneously.



101

21: 2023/08383. 22: 2023/08/30. 43: 2024/03/05

51: B60L; H02J

71: CHANGCHUN JETTY AUTOMOTIVE TECHNOLOGY CO., LTD.

72: WANG, Chao

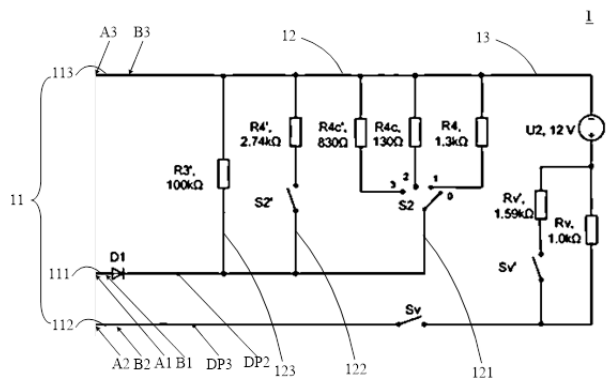
33: CN 31: 202120567464.6 32: 2021-03-19

#### **54: CHARGING CONTROL PILOT CIRCUIT AND CHARGING SOCKET**

00: -

The embodiments of the present disclosure provide a charging control pilot circuit and a charging socket. The circuit includes: a lead group including a first lead, a second lead and a third lead, in which one end of the first lead, one end of the second lead and one end of the third lead are respectively electrically connected to a connection line of an external charging device; a first loop including two or more resistors corresponding to the type of the external charging device, in which the first loop is disposed between the other end of the first lead and the other end of the third lead and electrically connected to the first lead and the third lead; and a second loop disposed between the other end of the second lead and the other end of the third lead and electrically connected to the second lead and the third lead. Therefore, the electric vehicle can be forwardly compatible with a plurality of charging systems and meet the demand of the current charging market.





51: A61K: A61P

72: MAGESA, Emmanuel

## 54: COMPOSITION FOR TREATING VITILIGO

The invention describes a composition for treating vitiligo and method for preparing same. The composition comprises clotrimazole, hydrocortisone and a mixture of benzoic acid and salicylic acid. The clotrimazole and hydrocortisone are provided in a cream form and the mixture of benzoic acid and salicylic acid in an ointment form. The creams and ointment are then thoroughly mixed to form a homogenous mixture is useful as a topical application to the affected areas of the skin.

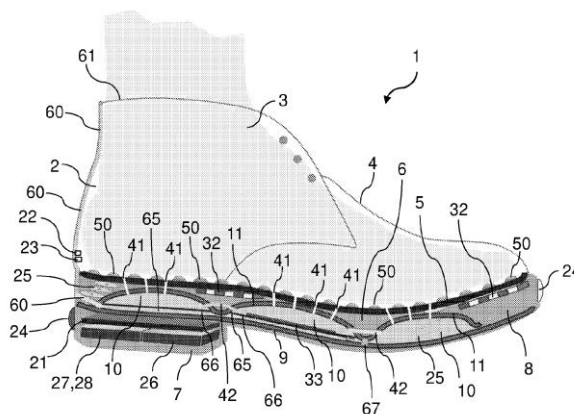


51: A43B

72: SPINA, Daniele

## 54: FOOTWEAR WITH ACTIVE TEMPERATURE AND HUMIDITY CONTROL

Footwear (1) comprising a housing seat (2) for a foot (3) and further comprising a system (20) for actively controlling the temperature and humidity inside the housing seat (2), wherein said active control system (20) comprises: an electronic control unit (21); a temperature sensor (22) and a humidity sensor (23) operatively connected to the electronic control unit (21) for supplying the electronic control unit (21) with a first electrical signal bearing information correlated to the temperature inside the housing seat (2) and a second electrical signal bearing information correlated to the humidity inside the housing seat (2), respectively; at least one temperature control element (32) operatively connected to the electronic control unit (21) and which is controllable for varying the temperature inside the housing seat (2); characterized in that said active control system (20) further comprises at least one humidity control element (33) operatively connected to the electronic control unit (21) and which is controllable for varying the humidity inside the housing seat (2), wherein said at least one humidity control element (33) is adapted and configured to vary the humidity by means of electrolysis.



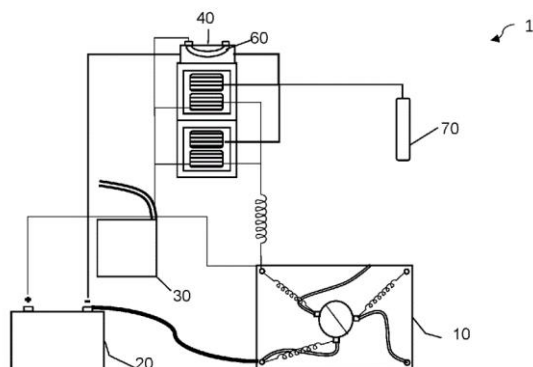
51: H02J: H02K: H02M

72: GARDINER, Cottrell Salisbury, GARDINER,  
Samantha Rene

33: US 31: 17/248.967 32: 2021-02-16



A recharging electric generator system which generates electrical energy and recharges itself, and methods thereof. A recharging electric generator system comprising at least one inverting apparatus; at least one power source/storage device to start the system and store electrical energy; at least one switching device; at least one transformer unit to adjust the voltage of the electrical energy, at least one rectifying unit to convert a portion of the electrical energy from alternating current to direct current and to transfer electrical energy to recharge the at least one power source/storage device; and at least one power outlet/output terminal to distribute electrical energy for further use.



21: 2023/08454. 22: 2023/09/01. 43: 2024/03/11  
51: A01M

71: China Tobacco Henan Industrial Co., Ltd.

72: Hongtao Shen, Xinling Yang, Genfa Wang,

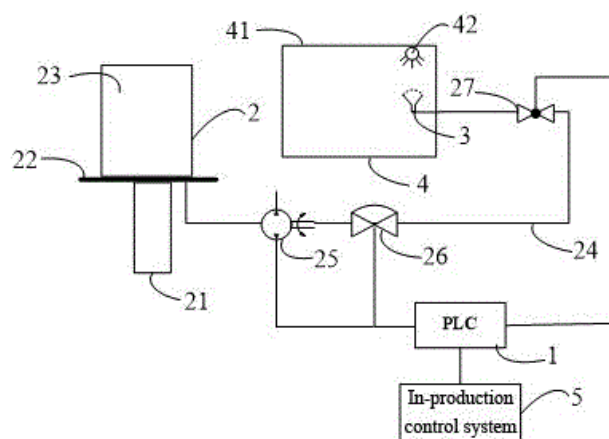
Xianghong Cheng, Bo Li, Feng Bai, Yong Liu

33: CN 31: 202310429365.5 32: 2023-04-19

## 54: THE DEVICE AND THE METHOD FOR SPRAYING S-ENYL ESTER ON IN-PRODUCTION REBAKING TOBACCO LEAVES

The invention discloses the device and the method for spraying S-enyl ester on in-production rebaking tobacco leaves. The device comprises a dosing unit, a spray unit and a controller, the controller is connected with an in-production control system, and the spray unit is connected with a moistening roller device. The invention discloses the device and the method for spraying S-enyl ester on in-production rebaking tobacco leaves. The device comprises a dosing unit, a spray unit and a controller, the

controller is connected with an in-production control system, and the spray unit is connected with a moistening roller device. The dosing unit comprises a medicine tank and a medicine transmission pipeline. The medicine tank is used for storing S-enyl ester medicine. The spray unit is used to spray S-enolate agent on the tobacco leaf in the drying drum equipment, and one end of the agent transmission pipe is connected with the medicine tank. The other end extends to the moistening drum equipment and is connected with the spray unit. The agent transmission pipeline is provided with a pneumatic film regulating valve, and the pneumatic film regulating valve is connected with the controller. The invention provides the device and the method for spraying S-enyl ester online in the rebaking of tobacco leaves. The aim of tobacco leaf pest control was achieved by spraying biological agents on line through beating and re-roasting. This enables the cigarette to reduce fumigation and insecticide in the later storage process, which not only saves costs, but also reduces chemical pollution and residues.



21: 2023/08455. 22: 2023/09/01. 43: 2024/03/11  
51: F21S

71: Anhui FangYong New Energy Technology Co., Ltd.

72: Yong Fang, Guangliang Chen, Jirong Deng,  
Yong Jiang

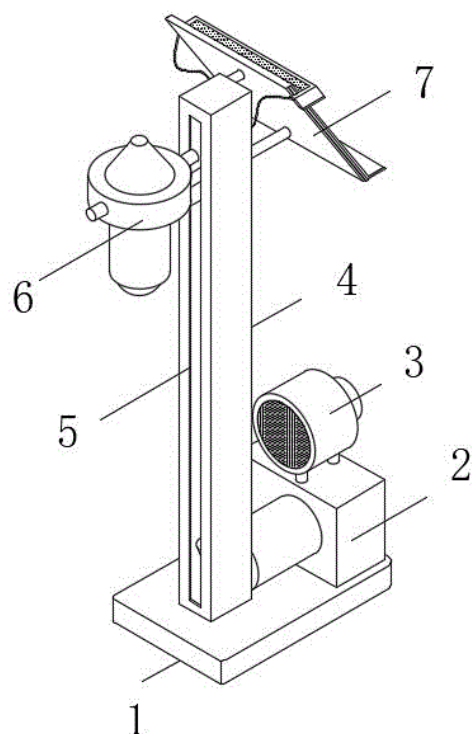
33: CN 31: 202310858799.7 32: 2023-07-13

## 54: A NOVEL LED WIND-SOLAR COMPLEMENTARY STREET LAMP

00: -

The invention discloses a novel LED wind-solar complementary street lamp, which belongs to the technical field of street lamp. The utility model comprises a base on which a main shell and an

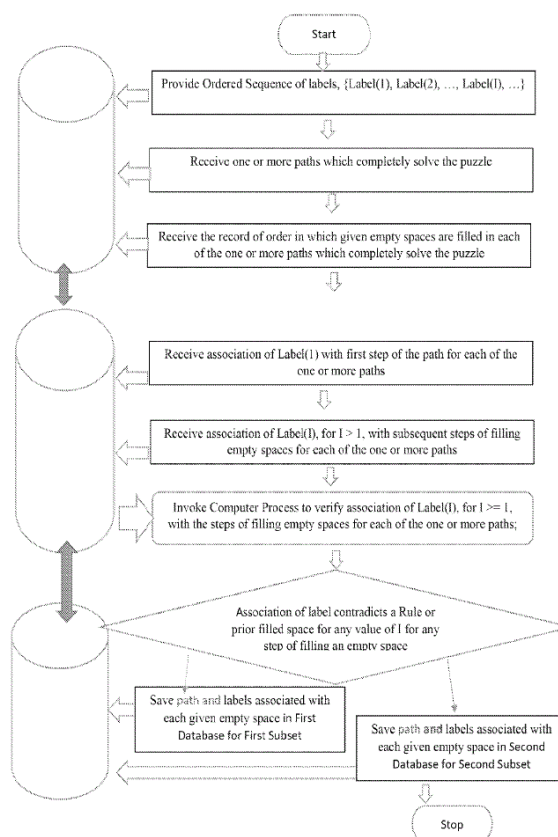
electric storage component are fixed on the top surface of the base, and the electric storage component is used for the storage of electric energy. The top surface of the electric storage component is fixed with a wind turbine chassis, and one of the outer walls of the wind turbine chassis is provided with a wind turbine. A photovoltaic module is fixed on one outer wall of the main shell; In the invention, a photovoltaic module and a wind chassis are provided. This design can't only realize the collection and utilization of solar energy, but also the collection and utilization of environmental wind power. It realizes the wind-solar complementary function of the street light and greatly improves the energy-saving performance of the street light. At the same time, when the lamp needs to be repaired, it can quickly adjust the position of the lamp, without staff climbing to repair it. It is easy to operate and has high maintenance safety.



#### 54: SYSTEMS AND METHODS TO ENHANCE AND DEVELOP NEW GAMES

00: -

Methods and apparatus of associating by a computerized system, labels with the order of execution of steps of solving a puzzle, game or activity, for one or more parts of one or more solution-paths for the puzzle, game or activity are described. Execution of the puzzle solution and also the particular sequence of steps in the solution paths are used to evaluate a relative efficiency of one sequence of steps over the other sequence. By quantifying efficiency of the solution path it becomes possible to logically and objectively compare the efficiency of two or more solutions or completions of the puzzle, game or activity.



21: 2023/08470. 22: 2023/09/01. 43: 2024/03/12  
 51: A63F  
 71: ANAND, Indu M.  
 72: ANAND, Indu M., ANAND, Ishan, ANAND, Pranav  
 33: US 31: 17/168,139 32: 2021-02-04

21: 2023/08491. 22: 2023/09/04. 43: 2024/03/11  
 51: C09K  
 71: NANTONG UNIVERSITY  
 72: MIAO, Jianwen, LI, Minmin, GONG, Lei  
 33: CN 31: CN2023109927500 32: 2023-08-07  
**54: A METHOD FOR PREPARING BA(1-2X)MOO4:XPR3+ RED FLUORESCENT POWDER BY COMBUSTION METHOD**

00: -

The invention discloses a method for preparing Ba(1-2x)MoO<sub>4</sub>:xPr<sup>3+</sup> red phosphor by combustion method. Pr<sub>6</sub>O<sub>11</sub> is weighed, dissolved in an appropriate amount of concentrated HNO<sub>3</sub>, heated in a constant temperature heater at 80°C to form a green viscous substance without black solids, and then transferred into a Volumetric flask to prepare a solution of 0.1 mol/L; Weigh (NH<sub>4</sub>)<sub>6</sub>Mo<sub>7</sub>O<sub>24</sub>·4H<sub>2</sub>O C<sub>6</sub>H<sub>8</sub>O<sub>7</sub>·H<sub>2</sub>O and H<sub>3</sub>BO<sub>3</sub> and dissolve them in deionized water to obtain solution A; Weigh Ba(NO<sub>3</sub>)<sub>2</sub> and transfer a relative amount of 0.1 mol/L Pr(NO<sub>3</sub>)<sub>3</sub> solution to obtain solution B; Mix solution A and solution B, then heat and stir in an 80°C water bath for 40 minutes, evaporate excess distilled water, and then transfer the liquid into a corundum crucible. Place it in a muffle furnace that has reached the corresponding temperature and ignite it for the corresponding time; Take out the sample, cool it naturally to room temperature, and the product is in the form of foam. Use a Glass rod to slightly break it to obtain phosphor powder. The red fluorescent powder prepared by the present invention has good luminescence performance.

21: 2023/08515. 22: 2023/09/05. 43: 2024/04/02  
51: G01N

71: University of Chinese Academy of Sciences  
72: ZHANG, Zhongshen, HAO, Zhengping, WU, Wenqing, LI, Ganggang, LI, Wenpeng, WANG, Xinxin, CHENG, Jie

#### 54: METHOD FOR PREDICTING ADSORPTION QUANTITY OF VOLATILE ORGANIC COMPOUNDS BASED ON FILLING ADSORPTION

00: -

The present invention provides a method for predicting adsorption quantity of volatile organic compounds (VOCs) based on filling adsorption. The present invention uses two or more porous materials with concentrated pore size distribution as model adsorbing materials to explore a critical pore channel dimension in which the filling adsorption can occur in specific adsorption conditions. According to the pore volume of the pore in which the filling adsorption occurs and the specific surface area of the pore of the covered adsorption, a linear equation in two unknowns is set up, and a coefficient of the equation is solved. Further, by introducing the implications of the difference of the pore size and the change of the

pressure on the adsorption quantity to correct the coefficient, the equation that can predict the adsorption quantity and the isotherm for the VOCs based on the pore structures of the adsorbing materials is obtained.

$$Q = a \times \rho \times V_c + b \times S_c$$

$$V_c = V_1 + V_2 + \dots + V_n \quad S_c = S_1 + S_2 + \dots + S_n$$

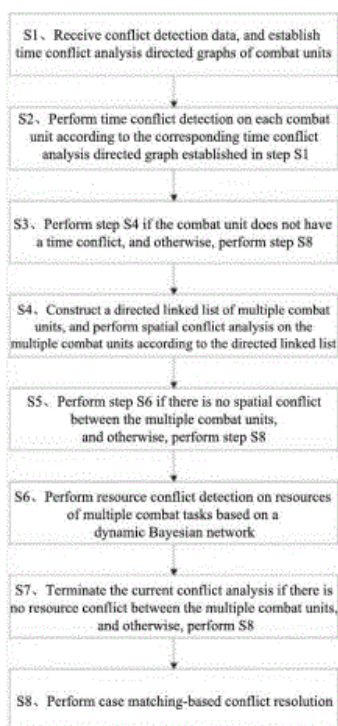
21: 2023/08517. 22: 2023/09/05. 43: 2024/04/02  
51: G06F

71: Army Academy of Armored Forces of PLA  
72: SUN, Yan, ZHENG, Xianzhu, WU, Xixi, LEI, Zhen, CHENG, Jie, ZHAI, Xiaoning

#### 54: MULTI-TYPE CONFLICT DETECTION METHOD

00: -

The present invention discloses a multi-type conflict detection method, which includes the following steps: establishing time conflict analysis directed graphs of combat units, and performing time conflict detection and determination on a single combat unit; performing spatial conflict analysis on multiple combat units without a time conflict; performing resource conflict detection on combat units without the time conflict and a spatial conflict; terminating the current conflict analysis if there is no combat unit with a resource conflict; and performing case matching-based conflict resolution on combat units with conflicts. The technical solution of the present invention can effectively improve the rationality of conflict determination to avoid potential defects and conflicts, realize comprehensive detection of multi-types of conflicts, and moreover, improve the detection efficiency and the accuracy of determination, and simplify the analysis process.



21: 2023/08521. 22: 2023/09/05. 43: 2024/04/02  
51: G06Q

71: YUNNAN COMMUNICATIONS INVESTMENT & CONSTRUCTION GROUP CO., LTD.

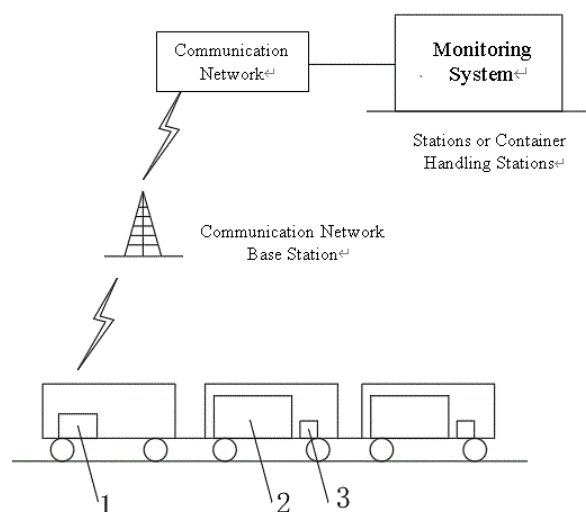
72: LI Linqing, CHONG Pengyun, YIN Hui, GONG Danqing, LI Xiaolin, LIU Weida, ZHANG Yan, HE Yiyong, CEN Yu, ZHANG Hui, LI Ming, ZENG Jianzhong, WANG Zhenxing, XU Zilong, DAI Hongbin, LIU Xuefei, QU Sen, WU Fan, GUO Shengjie, CHEN Bianning, SA Yu, LEI Yun, GAO Zheng

#### 54: REAL-TIME MONITORING METHOD FOR RAILWAY DANGEROUS GOODS TRANSPORTATION

00: -

The present invention discloses a real-time monitoring method for railway dangerous goods transportation by railway. When dangerous goods are loaded onto the train, corresponding detection devices are installed in each carriage of the transport vehicle, and a processor is set in the control room of the transport vehicle. The processor is equipped with a database and a data cache that can store data packets. The detection devices are used to detect the status of dangerous goods during transportation, and the detection devices are encoded to correspond the dangerous goods with the code; the detection devices transmit the detected data to the processor through communication

modules, the processor stores, analyzes, and compares it with the set threshold; the processor stores the comparison results. The beneficial effect of the present invention is that this scheme can achieve real-time and online detection throughout the entire lifecycle of dangerous goods transportation, and can be promptly informed and responded to when some characteristic data changes, providing safety assurance for dangerous goods transported by railway.



21: 2023/08524. 22: 2023/09/05. 43: 2024/04/02  
51: C22B

71: Northeastern University

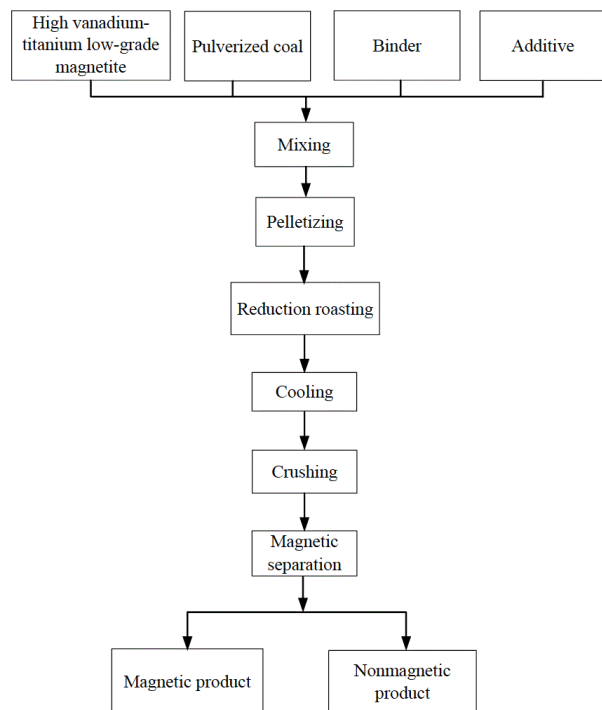
72: XUE, Xiangxin, CHENG, Gongjin, LI, Jinke, HAN, Tong, WANG, Xuyang, ZHAO, Gang, YANG, He, LIU, Jianxing, YUE, Hongrui

#### 54: ENERGY-SAVING AND EFFICIENT TREATMENT METHOD FOR HIGH VANADIUM-TITANIUM LOW-GRADE MAGNETITE

00: -

An energy-saving and efficient treatment method for high vanadium-titanium low-grade magnetite. The method maximizes a utilization ratio of strategic metal vanadium and titanium on the premise of improving a metallization ratio and an iron recovery rate of high vanadium-titanium low-grade magnetite pellets by coal-based enhanced reduction.





21: 2023/08525. 22: 2023/09/05. 43: 2024/03/13  
51: B02C

71: CBMI CONSTRUCTION CO., LTD.

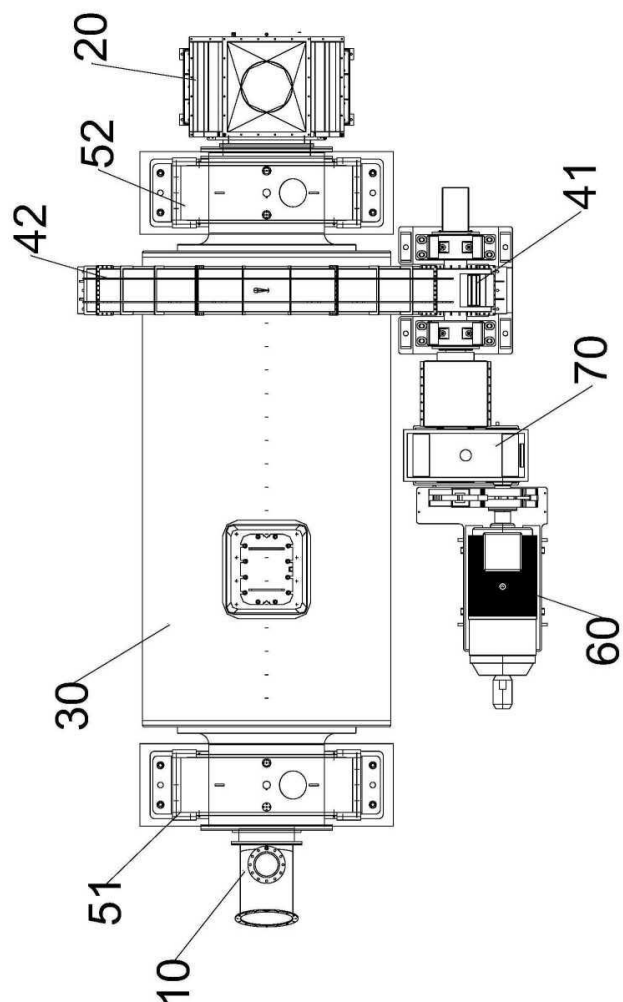
72: WANG, Guomin, ZHANG, Chao, WANG, Qiang, CAO, Xinming, LI, Runguo, ZHANG, Haiping, YI, Dengwei

33: CN 31: 2022227313137 32: 2022-10-17

#### **54: CALCINED CLAY GRINDING DEVICE**

00: -

Provided is a calcined clay grinding device, including: a feeding component and a discharging component; a rotary drum having a feed inlet and a discharge outlet, an auxiliary feeding plate being arranged at the feed inlet of the rotary drum, an auxiliary discharging plate being arranged at the discharge outlet of the rotary drum, a stepped liner, a corrugated liner; a rotating support assembly configured to support the rotary drum so that the rotary drum can rotate around its own axis; and a transmission mechanism and a driving component, the transmission mechanism being located between the driving component and the rotary drum, the driving component being configured to drive the rotary drum to rotate through the transmission mechanism. The device has a high grinding efficiency and is more beneficial to energy saving and emission reduction.



21: 2023/08527. 22: 2023/09/05. 43: 2024/04/03  
51: A01H

71: Shandong Institute of Pomology

72: Tan Yue, Xu Li, Zhu Min, Wang Dan, Wei Hairong

33: CN 31: 202322152038.8 32: 2023-08-11

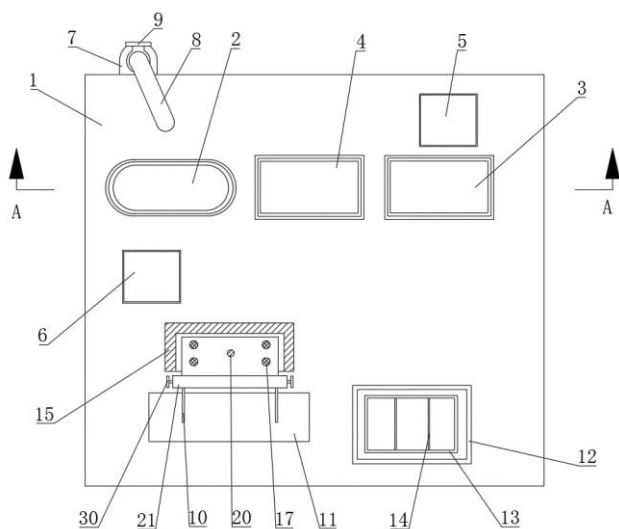
#### **54: INTEGRATED DEVICE FOR STERILIZING AND CUTTING STEM SEGMENTS IN TISSUE CULTURE**

00: -

The invention discloses an integrated device for sterilizing and cutting stem segments in tissue culture, which comprises a workbench, wherein a cleaning tank is arranged on the workbench, and a snap ring is fixedly connected on the workbench, a water pipe is fixedly connected in the snap ring; a valve is arranged on the water pipe, and the water pipe is used for providing sterile water; the workbench is provided with a dividing-cutting mechanism, which comprises a lifting structure and a



cutting structure, the cutting structure is arranged on the lifting structure, two cutting knives are arranged on the cutting structure, and a cutting table is arranged below the cutting knives; the workbench is fixedly connected with a tray disinfection box, a tray is placed in the tray disinfection box, and a plurality of partitions are fixedly connected in the tray. The invention is convenient for disinfecting and cleaning the plant stem segments, and the cutting of the plant stem segments can be realized through the lifting structure, the cutting structure and the cutting knives, so that the device is convenient to use.



21: 2023/08529. 22: 2023/09/05. 43: 2024/03/13

51: G01N; G06Q

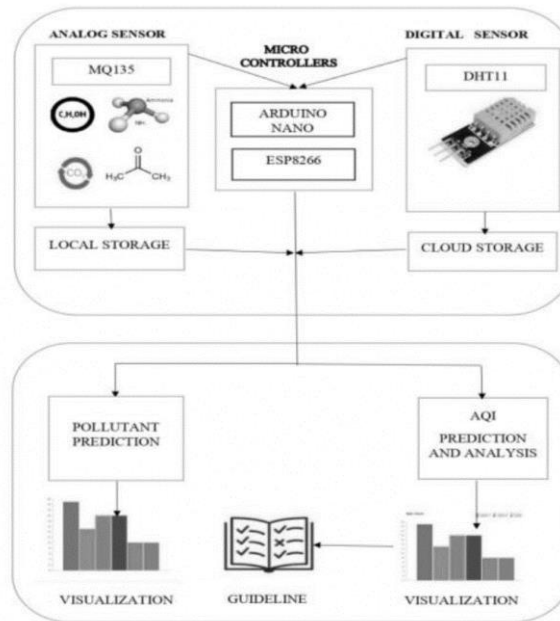
71: Dr. A. R. Revathi

72: Dr. A. R. Revathi, Dr. L. Sindhia, Dr. N. Senthilkumar, Dr. DhananjayKumar

#### **54: AN IOT BASED SYSTEM AND METHOD FOR REAL-TIME AIR QUALITY MONITORING AND ANALYSIS**

00: -

The present invention discloses an Intelligent Real-Time Air Quality Monitoring and Analysis System that utilizes Internet of Things (IoT) technology. The system integrates a wide variety of sensors, including a DHT11 sensor for temperature and humidity measurement and an MQ-135 sensor for detecting multiple air pollutants. These sensors are connected to microcontroller systems, such as Arduino Nano and Node MCU (8266), which facilitate data acquisition and management.



21: 2023/08530. 22: 2023/09/05. 43: 2024/03/13

51: H02J

71: XIAMEN SOLAR FIRST ENERGY TECHNOLOGY CO., LTD

72: song ping YE, ping Zhou, wei Huang

33: CN 31: 2023105067933 32: 2023-05-08

#### **54: SOURCE-GRID-LOAD-STORAGE COORDINATED CONTROL METHOD AND SYSTEM**

00: -

The present invention relates to the technical field of source-grid-load-storage, and specifically to a source-grid-load-storage coordinated control method and system. The method includes the following steps: acquiring a predicted output power of a photovoltaic power station, and formulating a planned output power  $C_{jx}$  of a new energy according to the predicted output power; obtaining an actual output power of the photovoltaic power station and the maximum storage power  $G_{max}$  of an energy storage system supporting the photovoltaic power station in real time; calculating an actual output deviation; calculating the maximum compensation cycle number  $T_{max}$  of the energy storage system according to the actual output deviation  $PC$ , and adjusting the planned output power of the new energy or the actual output power of the photovoltaic power station according to the maximum compensation cycle number  $T_{max}$ . Compared with the prior art, the method of the present invention can ensure the stable operation of photovoltaic power

station while meeting the grid demand as much as possible.

21: 2023/08533. 22: 2023/09/05. 43: 2024/03/13

51: E21B

71: DEVICO AS

72: AYRIS, Michael, FLÅM, John T., BUTLER, Alexander, LØVØ, Arnstein, LINDHJEM, Rune

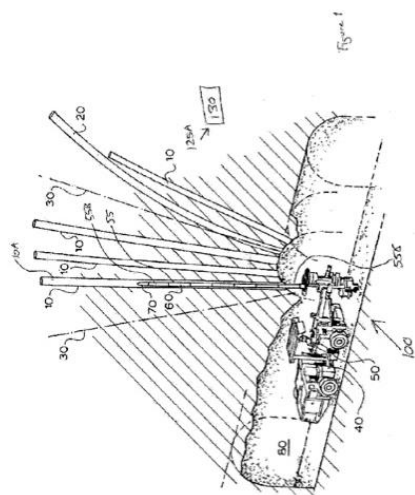
33: AU 31: 2021900636 32: 2021-03-05

33: AU 31: 2021212011 32: 2021-08-03

#### **54: SURVEY TOOL SYSTEM FOR BLAST HOLE DRILLING RIGS**

00: -

A survey tool system (100) for surveying deviation of a previously drilled hole (10, 20) from a selected hole path (30) comprises: an assembly of drill pipe sections (55) co-operable with said previously drilled hole (10, 20); and at least one sensor (125) included within the assembly of drill pipe sections (55) for collecting survey data including data correlated with deviation of said previously drilled hole (10, 20) from said selected hole path (30). A processor (130) processes data collected from the at least one sensor (125) and determines deviation of the previously drilled hole (10, 20) from the selected path (30) for said previously drilled hole (10, 20).



21: 2023/08536. 22: 2023/09/05. 43: 2024/03/12

51: B01D; E03B; F25B

71: CIRROS REHOS RENEWABLE POWER AND WATER (PTY) LTD

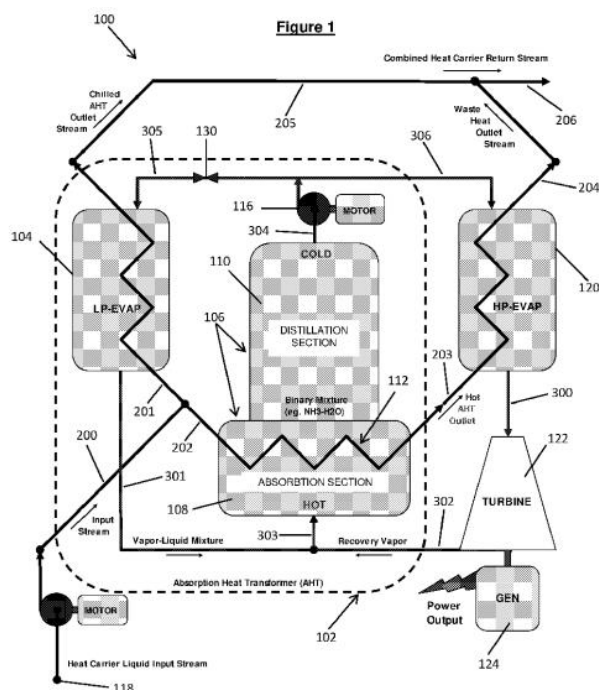
72: ENSLIN, Johan Adam, MURRAY, Mike

33: ZA 31: 2021/10181 32: 2021-12-09

#### **54: RENEWABLE POWER AND/OR WATER GENERATOR**

00: -

The invention relates to a renewable power and/or water generator with an absorption heat transformer (AHT) providing a heat pump, an Organic Rankine Cycle (ORC) for generating power, and a coupling between the AHT and the ORC to regenerate ORC rejection heat. The AHT consists of a low pressure evaporator and a vapour absorption binary (VAB) reactor that forms the coupling between the AHT and ORC. The VAB reactor includes an absorption section with an absorber heat exchanger and a distillation section provided by a rotating centrifugal unit that includes a flooded rotating packed bed.



21: 2023/08551. 22: 2023/09/06. 43: 2024/03/12

51: B66C

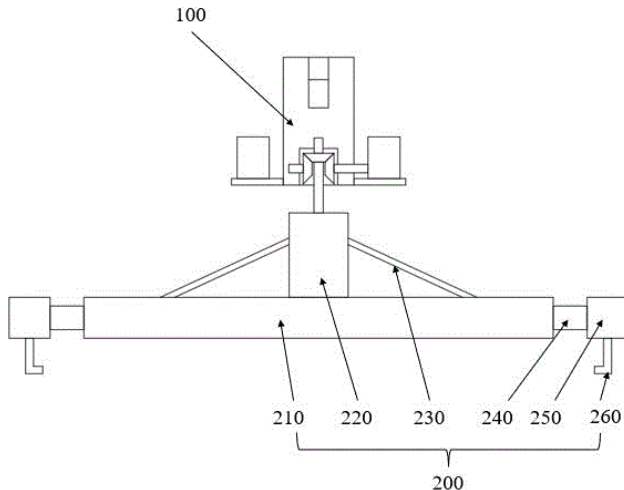
71: YUNNAN COMMUNICATIONS INVESTMENT & CONSTRUCTION GROUP CO., LTD.

72: CHONG Pengyun, YIN Hui, GONG Danqing, LI Linqing, WANG Lu, LI Xiaolin, HE Yiyong, CEN Yu, ZHANG Hui, LIU Weida, LI Ming, ZENG Jianzhong, WANG Zhenxing, DAI Hongbin, XU Zilong, LIU Xuefei, QU Sen, WU Fan, GUO Shengjie, CHEN Bianning, SA Yu, LEI Yun, GAO Zheng

#### **54: CONTAINER SPREADER FOR RAILWAY FREIGHT TRANSPORTATION**

00: -

The embodiment of the specification discloses a container spreader for railway freight transportation, which comprises a driving assembly and a grabbing assembly; the grabbing assembly is rotatably connected with the driving assembly, and the driving assembly is used for driving the grabbing assembly to rotate; the driving assembly is used for connecting with a hook; the grabbing assembly is used for grabbing containers.

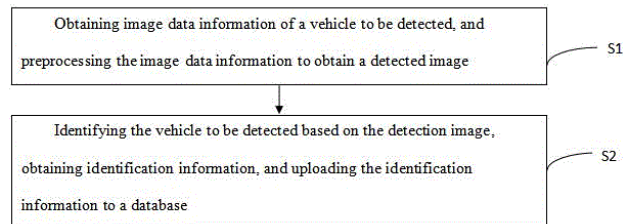


21: 2023/08552. 22: 2023/09/06. 43: 2024/03/12  
51: G07B  
71: YUNNAN COMMUNICATIONS INVESTMENT & CONSTRUCTION GROUP CO., LTD.  
72: CHONG Pengyun, YIN Hui, LI Linqing, GONG Danqing, WANG Lu, LI Xiaolin, HE Yiyong, CEN Yu, ZHANG Hui, LIU Weida, LI Ming, ZENG Jianzhong, WANG Zhenxing, DAI Hongbin, XU Zilong, LIU Xuefei, QU Sen, WU Fan, GUO Shengjie, CHEN Bianning, SA Yu, LEI Yun, GAO Zheng  
**54: MACHINE LEARNING-BASED TOLL ROAD GREEN CHANNEL VEHICLE DETECTION METHOD**

00: -

The invention discloses a machine learning-based toll road green channel vehicle detection method, which belongs to the technical field of vehicle monitoring. The method comprises the following steps: S1, obtaining image data information of a vehicle to be detected, and preprocessing the image data information to obtain a detected image; S2, identifying the vehicle to be detected based on the detection image, obtaining identification information, and uploading the identification information to a database. The machine learning-based toll road

green channel vehicle detection method provided by the invention can efficiently and comprehensively detect the vehicle information and the cargo information, save human resources, intelligitize and automate the detection process, improve the detection efficiency, and comprehensively and accurately identify the cargo. At the same time, uploading the information excavated by vehicles to the database can better curb the fake green channel, which is conducive to the healthy and rapid development of expressway toll collection.



21: 2023/08573. 22: 2023/09/06. 43: 2024/03/13  
51: G01J

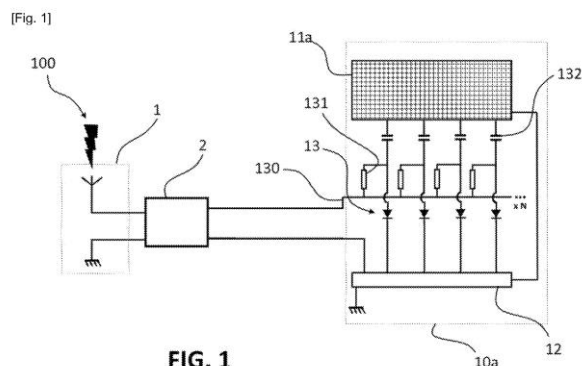
71: CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, UNIVERSITE DE RENNES, SAFRAN ELECTRONICS & DEFENSE  
72: TRICAS, Quentin, FOUTREL, Patrice, BESNIER, Philippe, CASTEL, Xavier, LE PAVEN, Claire  
33: FR 31: FR2102339 32: 2021-03-11

#### **54: CONTROL SYSTEM FOR AN ACTIVE SHIELDING SCREEN**

00: -

Control system for activating/deactivating an electromagnetic shielding screen (11a, 11b, 11c, 11d) of a porthole or of a window for protecting optoelectronic equipment, which comprises, a radiofrequency electromagnetic sensor (1), of passband matched to a blocking band of said shielding screen corresponding to a range of electromagnetic fields to be blocked, which is connected to a detector-rectifier (2) of sensitivity higher than a minimum value of the power of an electromagnetic field to be blocked by means of said shielding screen and a device (13, 14, 15, 16) for activating/deactivating said electromagnetic shielding screen, said detector-rectifier being configured to, in the presence of electromagnetic fields of power exceeding said minimum value, activate said device (13, 14, 15, 16) for activating/deactivating the electromagnetic shielding screen by capturing electromagnetic energy

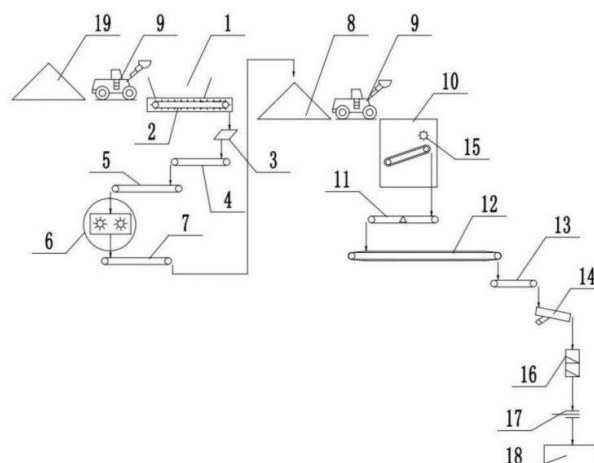
delivered by said electromagnetic fields of power exceeding said minimum value.



**FIG. 1**

21: 2023/08575. 22: 2023/09/06. 43: 2024/03/13  
51: B29B  
71: CBMI CONSTRUCTION CO., LTD.  
72: YAO, Xiuli, ZENG, Jisheng, LI, Runguo, WANG, Bin, TAO, Ying, ZHANG, Miao, ZHANG, Chao, XU, Haidong, XU, Zhiping, DENG, Yuhua  
33: CN 31: 2022218293632 32: 2022-07-15  
**54: WASTE TIRE CRUSHING UNIT AND WASTE TIRE TREATMENT SYSTEM USING THE SAME**  
00: -

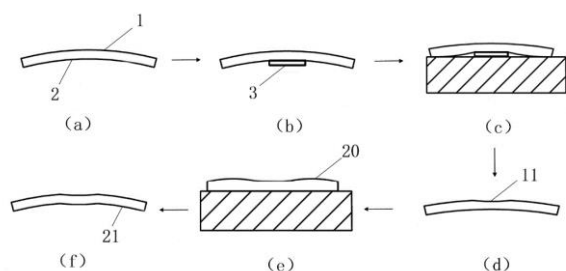
The present disclosure provides a waste tire crushing unit and a waste tire treatment system using the same. The waste tire crushing unit includes a receiving hopper, a first dispersing conveyor, a second dispersing conveyor, and a crusher located below the second dispersing conveyor, a dispersing baffle plate being arranged between the first dispersing conveyor and the second dispersing conveyor, the dispersing baffle plate being arranged in a way of leaning towards conveying direction of the first dispersing conveyor, the conveying speed of the second dispersing conveyor being greater than the first dispersing conveyor. The treatment system includes the waste tire crushing unit, a temporary storage and conveying unit, a feeding and conveying unit, and a combustion unit. The waste tire crushing unit can improve the crushing effect of the waste tires and reduce crushing load, and achieve the purpose of using waste tires as an alternative fuel.



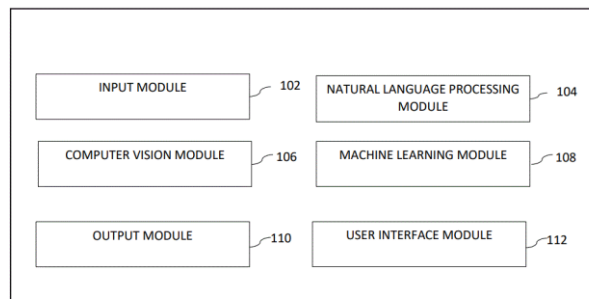
21: 2023/08586. 22: 2023/09/07. 43: 2024/03/13  
51: H01L  
71: Huzhou Tony Semiconductor Technology Co., Ltd.  
72: Xiaoyu SHEN, Mengfei SHEN, Wenjin CHEN  
33: CN 31: 2023103321573 32: 2023-03-27  
**54: A METHOD FOR REDUCING WARPAGE OF SILICON CARBIDE SUBSTRATE**  
00: -

The present invention relates to a method for reducing warpage of silicon carbide substrates, which belongs to the field of semiconductor materials technology. The method includes the following steps: a. Providing a silicon carbide substrate with one side being a convex surface (1) and the other side being a concave surface (2); b. Attaching a spacer (3) at the center of the concave surface (2); c. Adsorbing the silicon carbide substrate with the pad (3) facing the suction cup to a suction cup of a thinning machine, with the convex surface (1) remains convex, and then thinning the convex surface (1) to produce different removal amounts in different areas of the convex surface (1) to form a flat region; d. Thinning the other side to form a second flat region and adjust the overall thickness of the silicon carbide substrate. The present invention improves the bow value by attaching a spacer to the concave area of the silicon carbide substrate with excessive bow value. This results in a higher removal amount in the convex area compared to other areas, effectively reducing the warpage of the substrate.





100



21: 2023/08589. 22: 2023/09/07. 43: 2024/03/13

51: G09B

71: Dr. Sumit Kumar, Raja Rao Budaraju, Sasidhar Attuluri, Mona Ramesh

72: Sasidhar Attuluri, Mona Ramesh, Dr. Sumit Kumar, Raja Rao Budaraju

33: IN 31: 202311022908 32: 2023-03-29

**54: A SYSTEM BY USING AI TECHNOLOGY TO CREATE AN INTERACTIVE CLASSROOM FOR DIFFERENTLY ABLED PERSONS**

00: -

The present invention provides a system for interactive classroom environment for differently abled individuals, using artificial intelligence (AI) technology. The system comprises an input module for receiving lecture material, a natural language processing module for transcribing the material into text or sign language for individuals who are deaf or hard of hearing, and a computer vision module for translating the movements of the teacher or presenter into gestures or facial expressions for individuals with visual impairments. Additionally, a machine learning module analyses each student's learning patterns and provides personalized recommendations for study materials or activities. An output module presents the transcribed lecture material and gestures or facial expressions, while a user interface module allows individuals to interact with the system and access the personalized recommendations. The system is accessible via a web-based platform, and a remote access module allows teachers and support staff to access the system and the personalized recommendations. The system includes a security module to protect the privacy and confidentiality of lecture material and student data.

21: 2023/08590. 22: 2023/09/07. 43: 2024/03/13

51: G08G; G06N; H04W

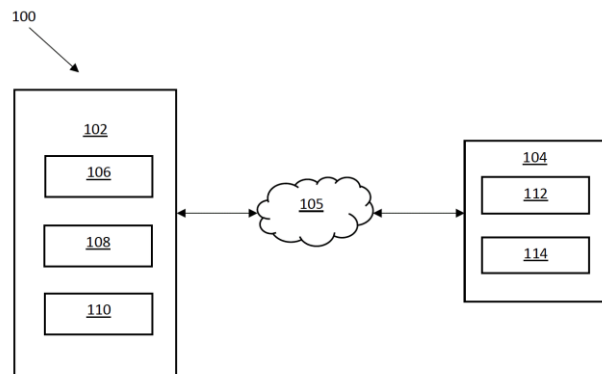
71: Sobini Xavier Adimai Pushpa, Dr. Kanaga Suba Raja Subramanian, Dr. Balaji Vaithilingam, Dr. Valarmathi Krishnamoorthi, Dr. Hema Mayavan, Kausalya Krishna Murthy, Chandra Balasubramanian, Sandhiya Balamurugan  
72: Dr. Kanaga Suba Raja Subramanian, Dr. Balaji Vaithilingam, Dr. Valarmathi Krishnamoorthi, Dr. Hema Mayavan, Kausalya Krishna Murthy, Chandra Balasubramanian, Sandhiya Balamurugan, Sobini Xavier Adimai Pushpa

**54: AN ARTIFICIALLY INTELLIGENT METHOD AND SYSTEM FOR PARKING AND SCHEDULING IN SMART CITIES**

00: -

The present disclosure relates to a parking system (100) designed to facilitate the process of finding available parking spaces for parking a vehicle (102). The system (100) utilizes no-parking and parking-allowed data from map service providers such as Google Maps, as well as real-time availability data obtained from satellite data, to determine the nearest available parking space. The parking system (100) generates directions to guide the driver to the space, taking into account any parking restrictions or other constraints. Additionally, the parking system (100) include a user interface to allow for user preferences and constraints, and a database (114) to store historical parking data and predict future availability. The present disclosure also relates to a method (200) for facilitating parking of a vehicle (102).





21: 2023/08609. 22: 2023/09/08. 43: 2024/03/14  
51: G03G

71: ZHUHAI PANTUM ELECTRONICS CO., LTD.  
72: SHAO, Zhe, HUO, Dewen, YANG, Hongjian,  
TANG, Peihuan

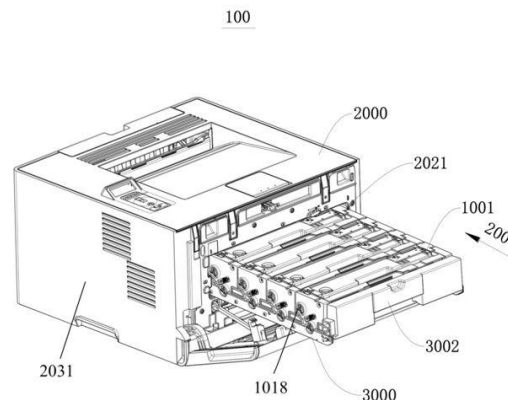
33: CN 31: 2022112161615 32: 2022-09-30

33: CN 31: 2023108344980 32: 2023-07-07

**54: PROCESS CARTRIDGE, PROCESS  
CARTRIDGE GROUP, AND IMAGE-FORMING  
APPARATUS**

00: -

The present disclosure provides a process cartridge, a process cartridge group and an image-forming apparatus. The process cartridge includes a driving portion, configured to receive a driving force from a driving apparatus in the image-forming apparatus; an image-forming structural part, configured to be connected to the driving portion; and an information identification part, including a plurality of electrical contacts electrically connected to the image-forming apparatus. When the process cartridge is installed in the image-forming apparatus, a minimum distance between any electrical contact of the information identification part and a side plate of the image-forming apparatus adjacent to the driving portion is H, and a value of the distance H is determined corresponding to attribute information of the process cartridge and/or an installation position of the process cartridge in the image-forming apparatus.



21: 2023/08611. 22: 2023/09/08. 43: 2024/03/14  
51: A01G

71: ANHUI SCIENCE AND TECHNOLOGY  
UNIVERSITY, Zhejiang Academy of Agricultural  
Sciences

72: ZHAO Kunkun, SUN Chongbo, ZHANG  
Yuanbing, WANG Yunzhu, ZHAO Wanqiu, CHEN  
Yue, DU Jianke

**54: METHOD FOR PROMOTING IN-BOTTLE  
FLOWERING OF TISSUE CULTURE SEEDLINGS  
OF CYMBIDIUM GOERINGII**

00: -

The invention discloses a method for promoting in-bottle flowering of tissue culture seedlings of *Cymbidium goeringii* and belongs to the technical field of plant flowering regulation. The method includes the following steps: preparing a flowering culture medium: taking an improved MS culture medium as a basic culture medium and also containing the following additives: 6-BA 2.0-5.0 mg/L, NAA 0.1-0.5 mg/L or IBA 0.1-0.5 mg/L, and activated carbon 1.0 g/L; subpackaging flowering culture medium: subpackaging the prepared flowering culture medium into sterile tissue culture bottles; in-bottle flower-forcing culture: under aseptic conditions, inoculating the robust rooting tissue culture seedlings of *Cymbidium goeringii* with a total length of 4-6 cm into the flowering culture medium in the tissue culture bottle, covering with a breathable cover, and putting into a culture room for flower-forcing culture, with the temperature of the culture room being  $27 \pm 1$  degree Celsius, the illumination time being 12 h/d, the illumination intensity being 3500-4500 Lx, and the culture time being 100-120 d.



21: 2023/08614. 22: 2023/09/08. 43: 2024/03/14  
51: G06F; G06Q

71: SECURE 2.0 (PTY) LTD

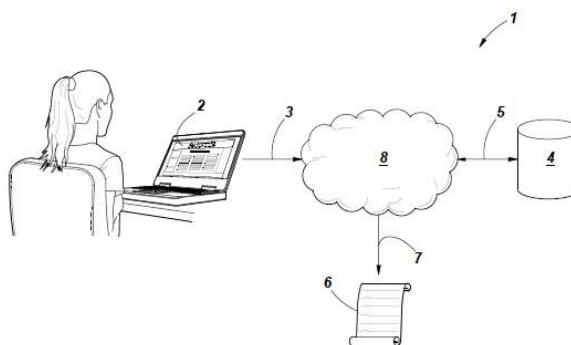
72: RENIER DE JAGER

33: ZA 31: 2022/11755 32: 2022-10-28

#### **54: SYSTEM FOR DATA PERUSAL**

00: -

This invention relates to system for data perusal more particularly but not exclusively to a system for perusal of data found in a publication. The system for data perusal comprising the steps of examining a publication, such as an official or governmental publication such as a Government Gazette, of information and comparing each segment of the publication against a database pertaining to any number of subjects and reporting on any similarities found between the data of the subjects and the publication. The system may further include the step of the publication of information being a collection of death notices, liquidation or sequestration notices, sale of business notices, advertisements or marketing pages or the like, the invention is not limited in this regard.



21: 2023/08615. 22: 2023/09/08. 43: 2024/03/14

51: E21D

71: DAK ENGINEERING PROPRIETARY LIMITED

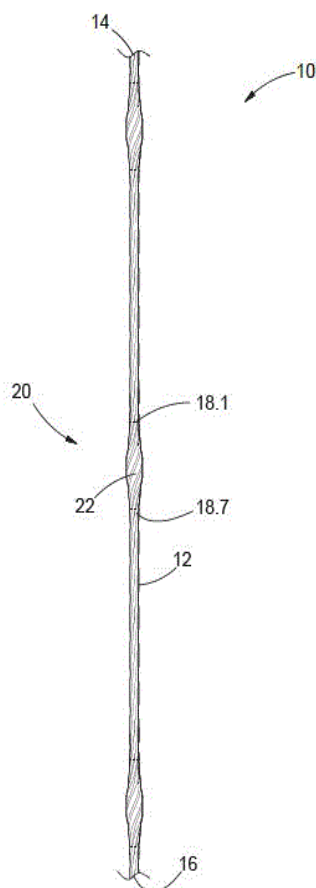
72: MATHEWS, Thomas Daniel Gurney,  
POTGIETER, John Adrian

33: ZA 31: 2022/11558 32: 2022-10-24

#### **54: A STRANDED CABLE WITH FILLED BULBS**

00: -

The invention relates to a stranded cable 10 comprising an elongate body 12. The elongate body 12 extends between a first end 14 and a second end 16. The elongate body 12 comprises a plurality of mutually twisted strands 18.1 to 18.n and a bulbous portion 20. The strands 18.1 to 18.7 in the bulbous portion 20 are separated from one another to define a space between the separated strands 18.1 to 18.7. The space is surrounded by the strands 18.1 to 18.7 in cage-like manner. The elongate body 12 comprises a body of resiliently deformable filler 22 filling the space.



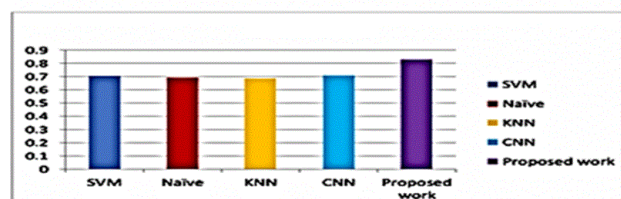
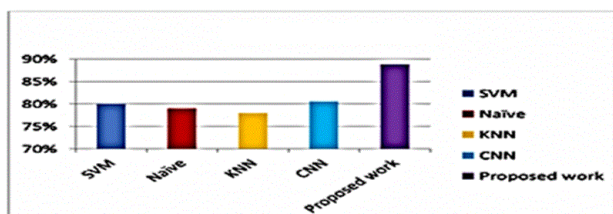
21: 2023/08622. 22: 2023/09/08. 43: 2024/04/03  
 51: H04N  
 71: DR.VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, PANDE, Milind Sudhakar, VISHWARUPE, Varad Vivek, MANDORA, Neha Rajendra, MATHIAS, Nicole Wilma Patrick, DESHMUKH, Aseem Waman, JOSHI, Preeti Manoj, PATIL, Avinash Prakash  
 72: PANDE, Milind Sudhakar, VISHWARUPE, Varad Vivek, MANDORA, Neha Rajendra, MATHIAS, Nicole Wilma Patrick, DESHMUKH, Aseem Waman, JOSHI, Preeti Manoj, PATIL, Avinash Prakash

#### 54: A SYSTEM FOR REAL TIME FACE RECOGNITION

00: -

The present invention relates to a system for real-time face recognition. The present invention considered previous research in face recognition. The issues of accuracy and performance were identified. Moreover, there was the issue of multiple face detection in some research work. The proposed work has applied an image compression mechanism to reduce the image size to speed up face detection. The development of real-time facial recognition

software continues to surge forward. Uniquely recognizing human faces in a real-time system relies heavily on face detection and recognition. When it comes to authentication and other forms of security, the face is where it's at. An improved and faster facial detection system is a primary goal. This article introduces a convolutional neural network (CNN) and Python-based face identification system. The dataset of famous people's faces is used for this purpose.



21: 2023/08623. 22: 2023/09/08. 43: 2024/04/03  
 51: G07B

71: DR.VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, PANDE, Milind Sudhakar, VISHWARUPE, Varad Vivek, SAYYED, Hazique, SHAIKH, Siddika, KUKLANI, Om, JOSHI, Preeti Manoj

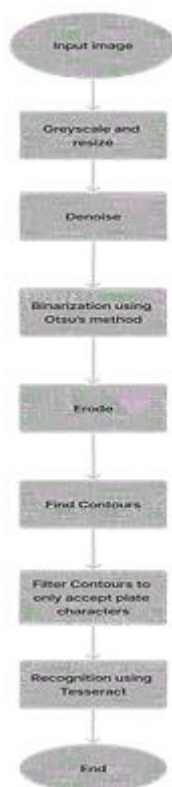
72: PANDE, Milind Sudhakar, VISHWARUPE, Varad Vivek, SAYYED, Hazique, SHAIKH, Siddika, KUKLANI, Om, JOSHI, Preeti Manoj

#### 54: AN AUTOMATED TOLL COLLECTION SYSTEM

00: -

The present invention is related to an automated toll collection system. According to the invention, the problem made us ponder over an automated system that can make our lives hassle-free and increase the efficiency of this operation to save time and energy. This automated system consists of OCR technology, i.e., optical character recognition, which captures the license plate, and the owner is billed instantly using the auto-pay protocol. Vehicles pass through toll gates at a speed of 20–30 km/hr. OCR-enabled speed cameras installed at the gates will capture the license plate, and text will be extracted from the

image. In addition to that, a backup QR code will be installed on the windscreen with vehicle and owner information encoded within it; this code is to be used in case the license plate is muddy or not recognizable. This system will make the toll collection process more efficient without creating a traffic block at the toll plaza.



21: 2023/08624. 22: 2023/09/08. 43: 2024/04/02  
51: E21C  
71: DR.VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, DASHPUTRE, Amey Satish, SHENOY, Vignesh Sheshagiri, DESHMUKH, Chaitanya Dilip

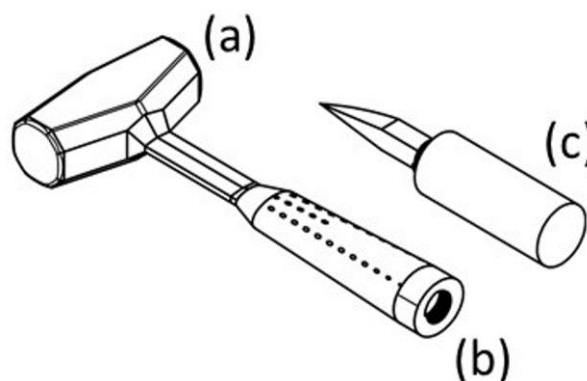
72: DASHPUTRE, Amey Satish, SHENOY, Vignesh Sheshagiri, DESHMUKH, Chaitanya Dilip

#### **54: A GEOLOGICAL CRACK HAMMER WITH PICK ACCESSORY**

00: -

The present invention related a geological crack hammer with pick accessory. Providing a geological crack hammer with slot for inserting Pick allowing easy and secure insertion of the pick into the hammer handle, while also maintaining the overall functionality and durability of the geological

hammer. The invention involves designing a specialized slot or receptacle on the side of the hammer head that is specifically sized and shaped to hold the pick securely in place. The slot could also include features such as a locking mechanism or a twist and lock mechanism to keep the pick in place during use. The invention includes modifications to the handle of the geological hammer to make it easier to grip and control when using the pick. This involves an ergonomic design to provide better grip and reduce fatigue during extended use.



21: 2023/08625. 22: 2023/09/08. 43: 2024/04/03  
51: G06K

71: DR.VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, PANDE, Milind Sudhakar, VISHWARUPE, Varad Vivek, MANDORA, Neha Rajendra, MATHIAS, Nicole Wilma Patrick, DESHMUKH, Aseem Waman, ZAHLOORJ, Saniya  
72: PANDE, Milind Sudhakar, VISHWARUPE, Varad Vivek, MANDORA, Neha Rajendra, MATHIAS, Nicole Wilma Patrick, DESHMUKH, Aseem Waman, ZAHLOORJ, Saniya

#### **54: A SYSTEM FOR PUBLIC HEALTH PROGNOSIS MEASURES BASED ON HUMAN INSPIRED ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING INTERPRETABILITY**

00: -

The present invention is related to a system for public health prognosis measures based on human inspired artificial intelligence and machine learning interpretability. According to the invention, explainable AI, as the word implies, is a type of artificial intelligence that enables the explanation of learning models and focuses on why the system arrived at a particular decision by exploring its logical paradigms, contrary to the inherent black box nature of artificial intelligence. This nature of explainable AI (XAI) and interpretable machine learning (IML) is

particularly helpful in the context of AI applications pertaining to healthcare and medical diagnosis. In this invention, a case study, we have focused on using the ELI5 XAI toolkit in conjunction with LIME (Local Interpretable Model Agnostic Explanations) and SHAP (Shapley Additive Explanations) algorithmic frameworks in Python for determining if a patient is diabetic or not, based on a randomized clinical trial dataset.

21: 2023/08638. 22: 2023/09/08. 43: 2024/03/15  
51: G10D

71: Joris Beets Design Limited

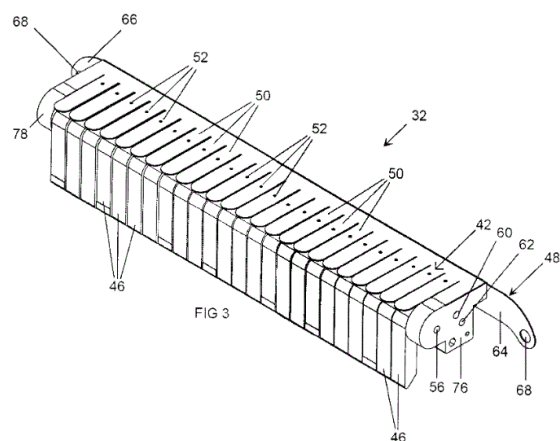
72: Joris Willem BEETS, Olav Jens HOEKSTRA

33: GB 31: 2103096.0 32: 2021-03-04

**54: APPARATUS FOR LENGTHENING THE VIBRATING LENGTH OF STRINGS ON A HARP**

00: -

Apparatus (32) for lengthening the vibrating length of strings (34) on a harp, which apparatus (32) comprises: (i) securing means (42) for securing one end of the strings (34); (ii) adjuster members (46) for increasing the length of the strings (34) in order to increase the tension in the strings and thereby alter the frequency of vibration of the strings (34); and (iii) mounting means (48) for mounting the apparatus (32) on the harp (36) and wherein: (iv) there is one of the adjuster members (46) for each one of the strings (34); and (v) the adjuster members (46) are pivotable adjuster members (46) which are pivotable between a string non-lengthening position and a string lengthening position.



51: E04B

71: THE SECOND CONSTRUCTION  
ENGINEERING COMPANY LTD. OF CHINA  
CONSTRUCTION SECOND ENGINEERING  
BUREAU

72: Dong, Haihua, QU, Congwen, GE, Changjiang,  
ZHANG, Yunbao, WU, Yangpo, NIE, Bin, SUN,  
Pengfei, LV, Yang, ZHANG, Di, TANG, Qing

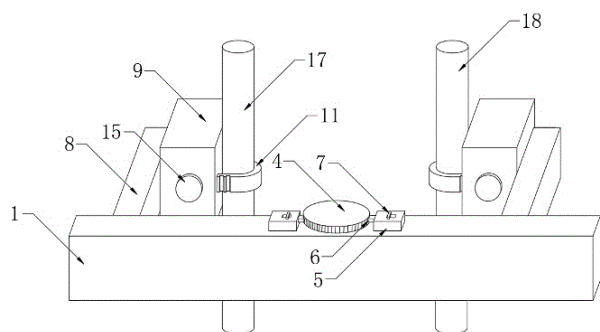
**54: WALL CONNECTING MEMBER FOR EXTERNAL SCAFFOLD**

00: -

The present invention belongs to the technical field of wall connecting members, and discloses a wall connecting member for an external scaffold, including a connecting plate, where a slide block is slidably mounted on each of two sides of a back wall of the connecting plate, a lead screw is connected to the slide block in a threaded manner, a hand wheel is rotatably mounted at a top of the connecting plate, a limit block is fixedly mounted at a position, located on each of two sides of the hand wheel, of an outer wall of the connecting plate, and a limit head abutting against a periphery of the hand wheel is slidably mounted on an inner side of the limit block. When a vertical pipe and a vertical pole need to be connected and fixed, clamps on left and right sides are adjusted to be located on outer sides of the vertical pipe and the vertical pole, respectively, then wedge-shaped locking rings are sleeved on the vertical pipe and the vertical pole and are inserted into slots in the clamps, and end parts of the wedge-shaped locking rings abut against wedge-shaped locking blocks to force the wedge-shaped locking blocks to move out to give way, until the wedge-shaped locking blocks meet clamping grooves and are inserted into the clamping grooves under the rebounding of springs to limit the wedge-shaped locking rings, so as to quickly fix the vertical pipe and the vertical pole.

21: 2023/08652. 22: 2023/09/11. 43: 2024/03/15





21: 2023/08653. 22: 2023/09/11. 43: 2024/03/15  
51: F16F

71: THE SECOND CONSTRUCTION  
ENGINEERING COMPANY LTD. OF CHINA  
CONSTRUCTION SECOND ENGINEERING  
BUREAU

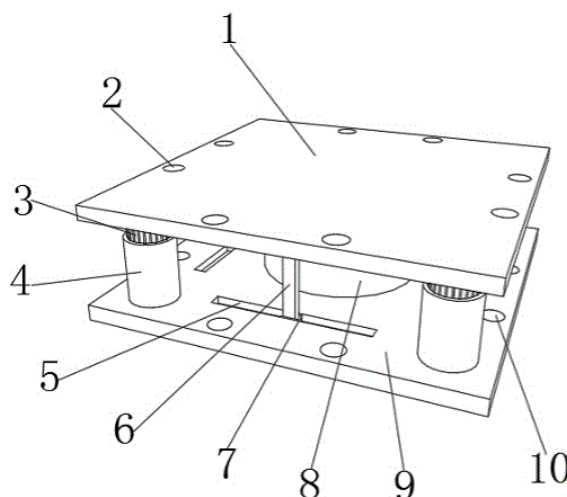
72: WANG, Gang, WU, Huihui, HE, Yunzhi, FENG,  
Ruili, CHEN, Fang, LIU, Yang, LIN, Dongqin, LI,  
Jian, FAN, Peng

#### **54: VIBRATION DAMPING AND ISOLATION DEVICE FOR PLANT AND APPLICATION METHOD THEREOF**

00: -

The present invention relates to the technical field of vibration damping and isolation devices, and discloses a vibration damping and isolation device for a plant and an application method thereof. In the present invention, the vibration damping and isolation device for a plant includes an upper flange plate, a rubber supporting column body on the upper flange plate, a lower flange plate, a lead core, a skeleton steel plate, and a rubber pad, where upper and lower ends of the lead core are provided with sealing plates arranged on a lower surface of the upper flange plate and an upper surface of the lower flange plate, a plurality of upper mounting through holes are arranged in four sides of an upper surface of the upper flange plate and a surface of the lower flange plate, four corners of the upper surface of the lower flange plate are each welded with a supporting cylinder, a connecting column chamber is arranged inside the supporting cylinder, a rebound spring is mounted at a bottom of the connecting column chamber, an upper end of the rebound spring is welded with a connecting column, and an upper surface of the connecting column is welded to the lower surface of the upper flange plate. Through the above design, the seismic performance of the plant is greatly improved, thereby prolonging the service

life of the plant, reducing the reinforcement cost thereof, and improving the safety thereof.



21: 2023/08654. 22: 2023/09/11. 43: 2024/03/15  
51: B62D

71: THE SECOND CONSTRUCTION  
ENGINEERING COMPANY LTD. OF CHINA  
CONSTRUCTION SECOND ENGINEERING  
BUREAU

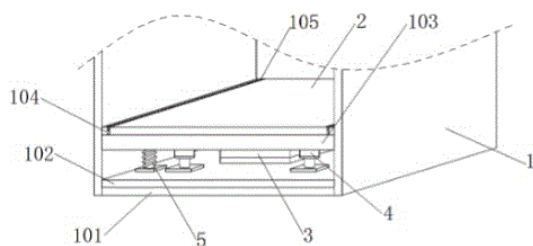
72: FENG, Ruili, WANG, Gang, WU, Huihui, HE,  
Yunzhi, LIU, Yang, LIN, Dongqin, LI, Jian, FAN,  
Peng, YUAN, Xin

#### **54: VIBRATION ISOLATION MECHANISM FOR VIBRATING APPARATUS IN PLANT**

00: -

The present disclosure relates to the field of vibration isolation mechanisms, and discloses a vibration isolation mechanism for a vibrating apparatus in a plant. With regard to the present disclosure, a plant body is included, a rubber damping layer is fixedly connected to an upper end of the fixing layer, a plant middle vibration isolation device is arranged at a lower end of the rubber damping layer, second elastic devices are arranged at four corners of a lower end of the plant middle vibration isolation device, and dampers are arranged at a lower end of the fixing layer and located on inner sides of the second elastic devices. The several dampers arranged between the fixing layer and a vibration isolation layer cooperate with the several second elastic devices for vibration reduction, and in the process of telescopic vibration reduction of the second elastic devices, several piston plates in the dampers rise and fall in a reciprocating manner in damping liquids in cylinder

block accommodating cavities, thereby reducing the amplitudes of the second elastic devices, and making the dampers cooperate with the second elastic devices to stably weaken or isolate the transmission of vibration. Through cooperation of the above structures, the anti-vibration effect of the plant on the vibrating apparatus can be conveniently improved, and the environmental noise can be effectively reduced.



21: 2023/08655. 22: 2023/09/11. 43: 2024/04/02  
51: G01N

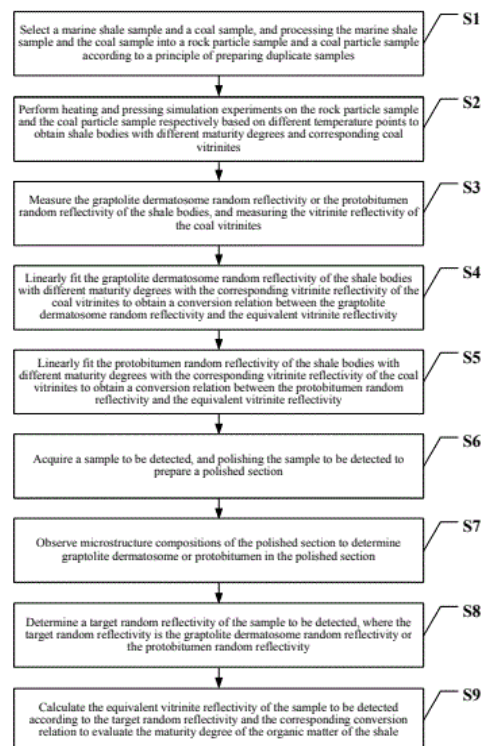
71: Chongqing Institute of Geology and Mineral Resources

72: LUAN, Jinhua, HU, Ke, HE, Tingpeng, LI, Tian, YANG, Jie, YANG, Liu, FU, Aiqing, CHE, Pingping, WANG, Xiong, LI, Menglai, DONG, Yi, LI, Hongmei, JIANG, Liangmei

#### 54: METHOD FOR EVALUATING MATURITY DEGREE OF ORGANIC MATTER OF LOWER PALAEOZOIC MARINE SHALE

00: -

The present invention discloses a method for evaluating a maturity degree of an organic matter of a lower palaeozoic marine shale, and relates to the field of petrophysical studies. The method includes the following steps: determining a conversion relation between a random reflectivity and an equivalent vitrinite reflectivity based on a heating and pressing simulation experiment and a data fitting method; acquiring a sample to be detected, and polishing the sample to be detected to prepare a polished section; observing microstructure compositions of the polished section to determine a graptolite dermatosome or protobitumen in the polished section; determining a target random reflectivity of the sample to be detected; and calculating the equivalent vitrinite reflectivity of the sample to be detected according to the target random reflectivity and the corresponding conversion relation to evaluate the maturity degree of the organic matter of the shale.



21: 2023/08657. 22: 2023/09/11. 43: 2024/04/02  
51: E01D

71: CCCC FIRST HIGHWAY ENGINEERING GROUP CO., LTD, THIRD ENGINEERING CO., LTD OF CCCC FIRST HIGHWAY ENGINEERING GROUP, Shandong Provincial Communications Planning and Design Institute Group Co., LTD

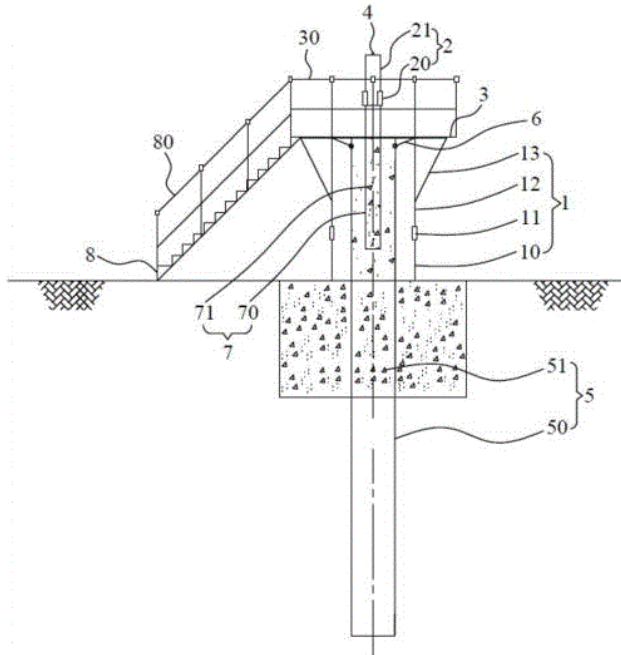
72: Zhenxi AI, Wei RONG, Yufeng WEI, Hongwei ZHANG, Yan CHAI, Xuchang LUO, Yongbing GUO, Lei ZHANG, Dehuan SUN, Zhiqiang FU, Deqiang LI, Jingchen CHENG, Hailong SUO, Zhenguo LIU, Jihao SHI, Guyue HU

#### 54: AN OBSERVATION DEVICE FOR BRIDGE CONSTRUCTION MEASUREMENT

00: -

The present invention discloses an observation device for bridge construction measurement, comprising a first lifting component, a second lifting component and a measuring platform; the measuring platform is connected with the output part of the first lifting component, the output part of the second lifting component is used to support the forced centering plate, and the forced centering plate is higher than the measuring platform. The present invention adopts an observation device for bridge construction measurement mentioned above, the first lifting component can adjust the height of the observation platform to ensure that the surveyor on

the observation platform can see the measurement point, and the second lifting component is used to support and adjust the forced center plate, which is convenient for the surveyor to carry out the measurement work.



21: 2023/08658. 22: 2023/09/11. 43: 2024/04/02

51: G06K

71: Hunan University

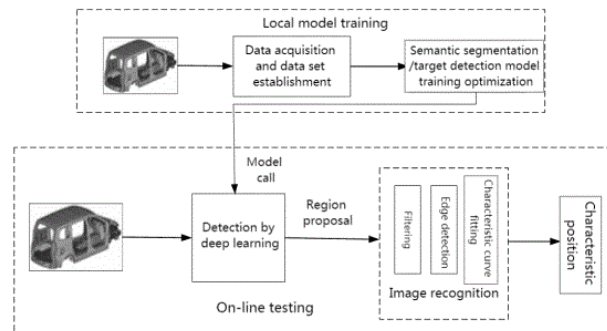
72: Zhaohui HU, Kai SONG

#### 54: HIGH-PRECISION IDENTIFICATION METHOD SUITABLE FOR VEHICLE ELECTRICAL ARCHITECTURES

00: -

The invention discloses a high-precision identification method suitable for vehicle electrical architectures, which belongs to the field of image identification, the target detection method based on deep learning is combined with the image processing algorithm. The target detection method based on deep learning can eliminate the interference of environmental factors on the image, so as to accurately locate the target feature area, and then combine the image processing algorithm to realize the high-precision recognition of the target feature. The invention adopts the above-mentioned high-precision identification method suitable for vehicle electrical architectures. This method combines the target detection method based on deep learning with the feature detection method

based on image processing, which can effectively eliminate the interference of irrelevant information and achieve high-precision image identification. The image processing algorithm achieves a good balance between accuracy and speed.



21: 2023/08659. 22: 2023/09/11. 43: 2024/04/02

51: G01N

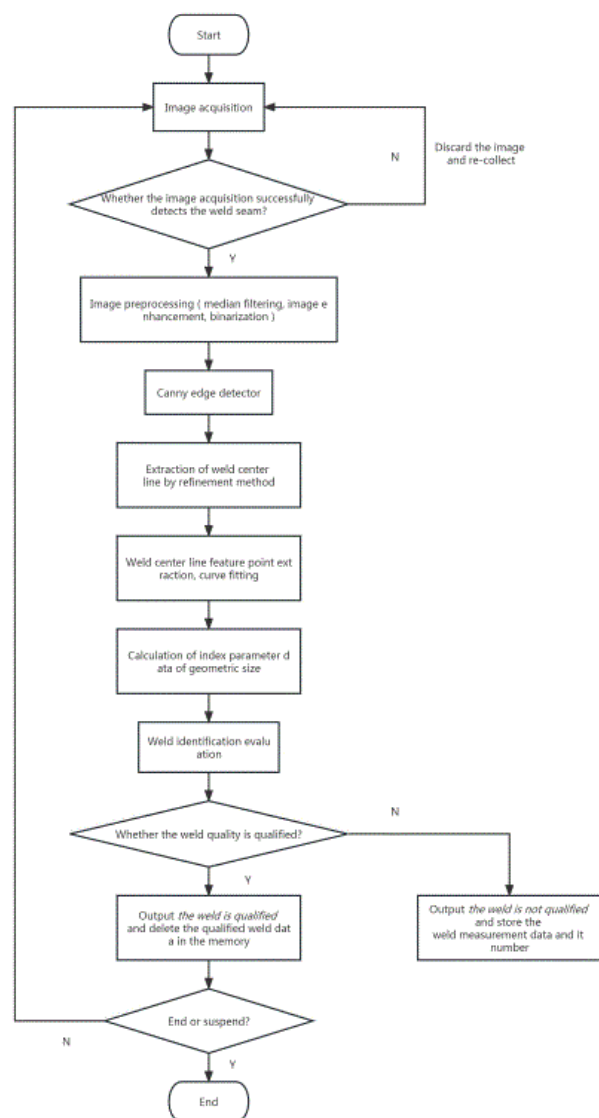
71: Hunan University

72: Zhaohui HU

#### 54: IMAGE RECOGNITION AND QUALITY INTELLIGENT EVALUATION SYSTEM BASED ON WELD SEAM CHARACTERISTICS OF ALUMINUM ALLOY PRODUCTS

00: -

The invention discloses an image recognition and quality intelligent evaluation system based on weld seam characteristics of aluminum alloy products, which belongs to the field of process production. The system combines weld seam characteristics and image recognition methods to work from four aspects: basic image processing, center line and feature extraction, three-dimensional reconstruction, and the establishment of geometric dimensions and defect location evaluation standards based on weld morphology. The invention adopts the above-mentioned image recognition and quality intelligent evaluation system based on weld seam characteristics of aluminum alloy products, and combines image processing to develop an efficient intelligent weld visual image recognition algorithm matching it, which improves the efficiency of weld quality recognition, and fills the technical gap and market application in this field. It is of great significance to the online intelligent detection of weld quality.



tribulus terrestris l, 5-12 parts of black plum meat, 10-17 parts of unprocessed rehmannia root, 10-18 parts of prepared rehmannia root, 3-13 parts of abalone shell, 5-12 parts of white peony, 5-13 parts of medlar, 8-15 parts of black sesame, 3-13 parts of white silkworm, 3-12 parts of wood butterfly, 5-15 parts of Chinese wolfberry root-bark, 5-12 parts of grilled turtle shell, 3-7 parts of safflower, 3-12 parts of lithospermum, 5-15 parts of dendrobium, 4-15 parts of Chinese angelica, 5-15 parts of Adenophora Elata, 3-7 parts of cassia bark, 3 - 13 parts of epimedium and 1-5 parts of aucklandiae radix. Compared with the prior art, the present invention has the advantages that: the traditional Chinese medicine formula for treating hypertension has excellent compatibility, remarkable curative effect, few side effects, is safe and reliable, and has the effect of improving the etiology of hypertension from the source. The preparation method has simple process. It has changed the current situation that modern hypertensive patients take medicine for life, no rebound after stopping the medicine, and no toxic and side effects.

21: 2023/08661. 22: 2023/09/11. 43: 2024/03/15  
51: C09K

71: Institute of Plant Nutrition, Resources and Environment, Henan Academy of Agricultural Sciences

72: Yonghui Yang, Cuimin Gao, Sensen Zhang, Yunhong Zhang, Hao Liu, Jicheng Wu, Xiaoying Pan, Fang He, Jinli Ding

#### 54: SOIL CONDITIONER AND PREPARATION METHOD THEREFOR

00: -

The present application discloses a soil conditioner and a preparation method therefor. Each component of the soil conditioner and its mass percentage occupied are as follows: 20-25% of a polyacrylamide, 15-35% of an organic matter, 10-25% of a humic acid, 12-23% of an amino acid, and 18-35% of nitrogen-phosphorus-potassium. The soil conditioner provided by the present application has various effects such as increasing soil active substances, improving soil structures, improving soil increase capacity and storage capacity, and reducing soil ineffective evaporation.

21: 2023/08662. 22: 2023/09/11. 43: 2024/03/15

21: 2023/08660. 22: 2023/09/11. 43: 2024/03/15  
51: A61K

71: Chuanshui Zhang, Kaibo Zhang

72: Chuanshui Zhang, Kaibo Zhang

33: CN 31: 2023100386330 32: 2023-01-13

#### 54: A TRADITIONAL CHINESE MEDICINE FORMULA FOR TREATING HYPERTENSION

00: -

The invention discloses a traditional Chinese medicine formula for treating hypertension, comprising the following raw materials by weight: 8-12 parts of alum processed pinellia, 1-2 parts of manchurian wildginger, 10-20 parts of membranes of chicken gizzards, 10-18 parts of broil solomon's seal, 10-20 parts of asparagus, 2-15 parts of polygonum multiflorum, 5-13 parts of selfheal, 5-15 parts of



51: G03B

71: Kevo Project Management (Pty) Ltd

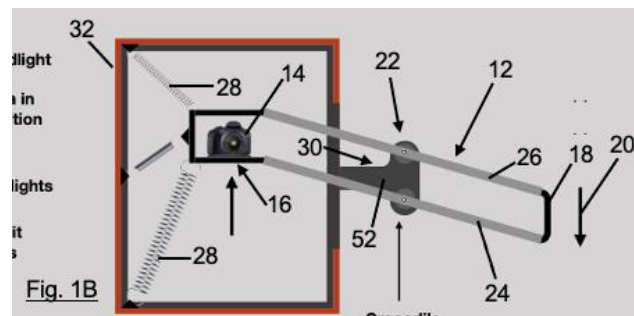
72: ELSE, Sean Richard

33: ZA 31: 2022/13908 32: 2022-12-22

**54: IMAGE CAPTURING**

00: -

This invention relates to image capturing and includes a camera platform comprising a camera mounting onto which a camera is mounted, a handle for adjusting the camera mounting in a vertical direction, and an adjustment arrangement for retaining the camera in a horizontal orientation throughout the range of vertical movement of the camera mounting. The invention extends further to an image capturing arrangement, enclosed in an enclosure, and to a consultation arrangement. The consultation arrangement, suitable for accommodating an interviewee and an interviewer, comprises the image capturing arrangement, mounted on a first wall of a consultation cubicle, a plain background second wall opposite the first wall and a remote device in communication with the camera, operable by the interviewer.



21: 2023/08676. 22: 2023/09/11. 43: 2024/03/15

51: A61K; C07F

71: KALOCYTE, INC., UNIVERSITY OF MARYLAND, BALTIMORE, UNIVERSITY OF MARYLAND, BALTIMORE COUNTY

72: PAN, Dipanjan, DOCTOR, Allan, MITTAL, Nivesh

33: US 31: 63/159,547 32: 2021-03-11

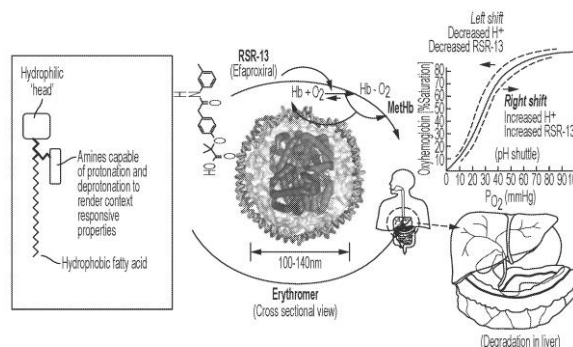
33: US 31: 17/692,289 32: 2022-03-11

**54: COMPOSITIONS AND METHODS FOR REMOVING BIO-SYNTHETIC NANO-PARTICLES FROM BODILY FLUIDS**

00: -

Bait and capture methods and compositions for removing bio-synthetic nano-particles from body fluids. Bio-synthetic nano-particles are baited with one-half of a bait and capture complex and lyophilized. The baited bio-synthetic nano-particle is

reconstituted and administered to a subject for diagnostic or therapeutic purposes. To remove the bio-synthetic nano-particle from the body, the body fluid containing the baited bio-synthetic nano-article is contacted with the capture portion of the bait and capture complex. The body fluid from which the bio-synthetic nano-particles have been removed may be returned to the subject.



21: 2023/08693. 22: 2023/09/12. 43: 2024/03/18

51: G01N

71: Jilin Jianzhu University

72: ZHANG Yunlong, ZHANG Jiayuan, WANG Jing

33: CN 31: 2023110583068 32: 2023-08-22

**54: PRINCIPLE FOR IDENTIFYING AND DETERMINING CONTINUOUS BEAM DAMAGES BASED ON DIFFERENCE METHOD**

00: -

The invention discloses a principle for identifying and determining continuous beam damages based on difference method, which belonging to the technical field of bridge damage identification. The method comprises the following steps: S1, collecting the discrete point data of the influence lines of the reaction force of the inspected bridge before and after being damaged, and performing difference calculation on the discrete point data before and after being damaged to obtain a calculation result; S2, performing fitting calculation on the calculation result to obtain fitting data, and performing second-order difference calculation on the fitting data to obtain a difference result; S3, drawing a difference curve based on the difference result, and analyzing the difference curve to obtain an analysis result; the analysis result is used to locate the damage position of the inspected bridge. The principle for identifying and determining continuous beam damages based on difference method provided by the invention can



reflect the change of the waveform more obviously, which can better reflect the position and amplitude of the sudden change, so as to accurately judge the crack position. And the calculation method is easy to realize.

Collecting the discrete point data of the influence lines of the reaction force of the inspected bridge before and after being damaged, and performing difference calculation on the discrete point data before and after being damaged to obtain a calculation result

Performing fitting calculation on the calculation result to obtain fitting data, and performing second-order difference calculation on the fitting data to obtain a difference result

Drawing a difference curve based on the difference result, and analyzing the difference curve to obtain an analysis result; the analysis result is used to locate the damage position of the inspected bridge

21: 2023/08694. 22: 2023/09/12. 43: 2024/03/18  
51: C05F

71: Guangdong Yuehai Water Investment Co., Ltd., Harbin Institute of Technology, Harbin Institute of Technology Water Resources National Engineering Research Center Co., Ltd.

72: ZHENG, Chengzhi, ZHANG, Jun, WU, Rui, JIAO, Yimeng

33: CN 31: 2023108311722 32: 2023-07-07

#### **54: METHOD FOR REDUCING NEGATIVE IMPACT OF MICROPLASTICS ON BIOLOGICAL REGULATION TO FACILITATE EFFICIENT COMPOSTING OF SEWAGE SLUDGE**

00: -

Provided is a method for reducing negative impact of microplastics on biological regulation to facilitate efficient composting of sewage sludge, relating to a method for promoting efficient composting of sewage sludge. The present invention aims to solve such problems as instability and poor efficiency arising from the sewage sludge composting due to the interference of xenobiotic pollutants. The present invention includes: Step 1. setting and defining a background concentration of microplastics in sewage sludge; Step 2. processing raw materials for a polyacrylamide-sewage sludge containing microplastics composting system; and Step 3. building and operating the polyacrylamide-sewage sludge containing microplastics composting system.

The present invention belongs to the technical field of organic solid waste heap treatment.

21: 2023/08695. 22: 2023/09/12. 43: 2024/03/18  
51: G06F

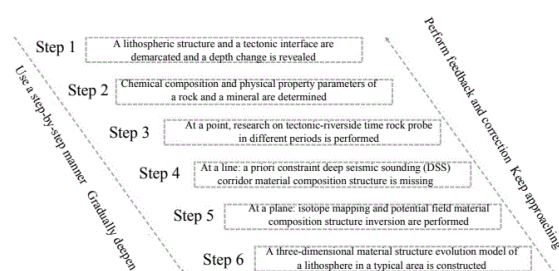
71: China University of Geosciences (Beijing)

72: YANG, Liqiang, HE, Wenyan, GAO, Xue, WANG, Sirui, LI, Nan, QIU, Kunfeng, ZHANG, Liang, MA, Qiang, SU, Yuping, LI, Dapeng, ZHANG, Zhiyu, YU, Hong

#### **54: IMPROVED TRACE METHOD FOR THREE-DIMENSIONAL MATERIAL STRUCTURE OF CRATON LITHOSPHERE**

00: -

The invention relates to an improved trace method for a three-dimensional material structure of a craton lithosphere, and belongs to the technical field of deep earth exploration. The method specifically includes: step 1, calibrating an interface and revealing a change; step 2, determining rock composition and physical properties; step 3, performing dissection by inserting a rock probe; step 4, forming a composite profile by the lithosphere; step 5, performing isotope mapping and potential field inversion; and step 6, constructing a three-dimensional material structure evolution model of a lithosphere in a typical area. Basic points of three strategic idea changing, specifically from a point to a surface, a local to full space-time, a single method to multidisciplinary comprehensive constraints are expounded.



21: 2023/08697. 22: 2023/09/12. 43: 2024/03/18  
51: B62B

71: Anhui Polytechnic University

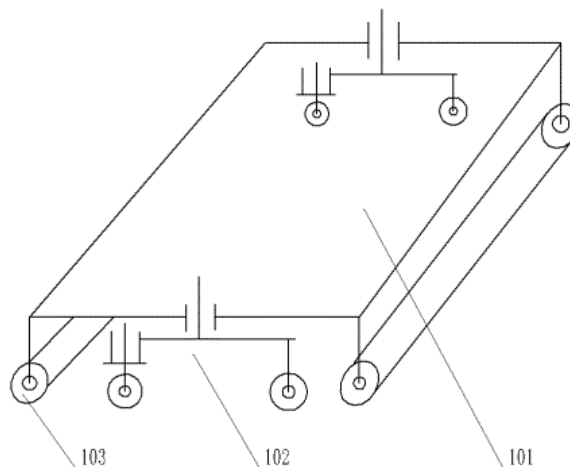
72: Youyu LIU, Qijie WANG, Hongwei LI, Yi LI, Guodong HU

33: CN 31: 2023102777381 32: 2023-03-21

#### **54: TRANSLATIONAL STEERING APPARATUS FOR A STAIR CLIMBING MACHINE AND A WORKING METHOD THEREOF**

00: -

The present invention relates to the technical field of stair climbing machine steering, and particularly relates to a translational steering apparatus for a stair climbing machine and a working method thereof. The steering apparatus includes a vehicle body, translation mechanisms, and stair climbing mechanisms. The stair climbing mechanisms are mounted on a left side and a right side of the vehicle body, the translation mechanisms are mounted on a front side and a rear side of the vehicle body, and the translation mechanisms are perpendicular to a traveling direction of the stair climbing mechanisms. Specifically, the apparatus includes a vehicle body part, telescopic parts, connectors, translation parts, a control box, and stair climbing parts. The telescopic parts are connected to upper end surfaces and lower end surfaces of a front side and a rear side of the vehicle body part, and one ends of the connectors are connected to lower ends of the telescopic parts. The translation parts are connected to the other ends of the connectors. The control box is connected to the upper end surface of the vehicle body part. The stair climbing parts are connected to a left side and a right side of the vehicle body part. The present invention further discloses a working method of a translational steering apparatus for a stair climbing machine. With the translation mechanisms arranged on the front side and the rear side of the vehicle body, the present invention achieves steering of the vehicle body without a turn radius, and achieves continuous stair climbing and turning in a narrow space.



21: 2023/08714. 22: 2023/09/12. 43: 2024/03/18  
51: B27K; F26B

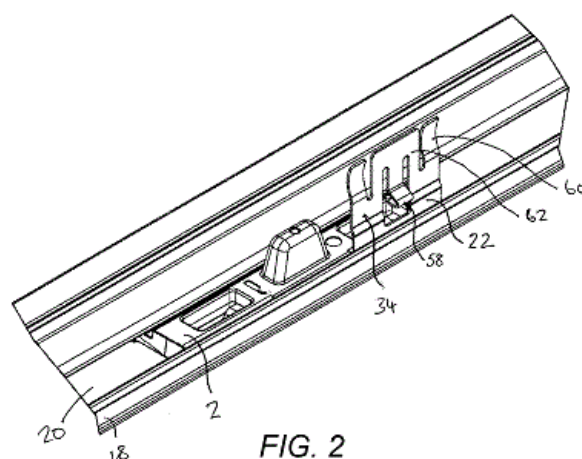
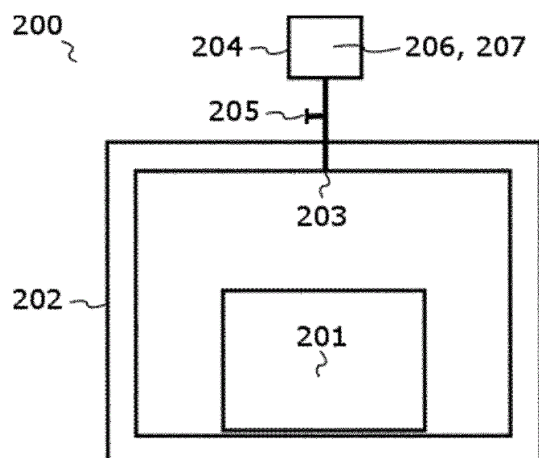
71: AVANT WOOD OY

72: RITVANEN, Pekka, LEHTINEN, Jyrki,  
PASANEN, Timo, SAYNEVIRTA, Kari, TERVO, Kari  
33: FI 31: 20217032 32: 2021-02-15

#### **54: MODIFICATION ARRANGEMENT FOR HYGROSCOPIC MATERIA**

00: -

An invention relates to thermal or thermomechanical processing of hygroscopic material to adjust the material properties. The invention concerns a modification arrangement for the hygroscopic material. The modification arrangement comprises a modification unit (202) and a fluid container (204) that is coupled with a control valve (205) to at least one fluid aperture (203). The modification arrangement is configured for heating the hygroscopic material in the modification unit (202) to extract water from it and, in response to opening of the control valve (205), leading fluid from the fluid container through said at least one fluid aperture (203) into the modification unit (202). The modification arrangement further comprises a treatment agent (207) added to the fluid so that the treatment agent (207) is absorbed into the hygroscopic material and modifies it. The treatment agent (207) includes at least one of the following ingredients: a preservative, a dye, a pigment, an aroma, an odour eliminator, a pesticide, an impregnation ingredient, or a fire retardant.



21: 2023/08738. 22: 2023/09/13. 43: 2024/03/18

51: E06B

71: LOUVER-LITE LIMITED

72: GREENING, Andrew, BARNES, Antony

33: GB 31: 2102572.1 32: 2021-02-23

#### **54: WINDOW BLIND SUPPORT ASSEMBLY**

00: -

A window blind support assembly including one or more elongate support members; a mounting bracket; and a locating element; wherein the or each elongate support member defines a longitudinal channel; the locating element is slidably coupled to the or one of the elongate support members via the longitudinal channel; the mounting bracket defines a retaining portion and a connecting portion; and the retaining portion of the mounting bracket is secured to the elongate support member at a desired position via the locating element.

21: 2023/08753. 22: 2023/09/14. 43: 2024/03/18

51: A61K; A61P

71: Yutang Cai, Lei Feng

72: Yutang Cai, Lei Feng

33: CN 31: 202211591865.0 32: 2022-12-09

#### **54: MEDICINAL LIQUOR COMPOSITION AND PREPARATION METHOD THEREOF**

00: -

The invention provides a medicinal liquor composition and a preparation method thereof, which has various effects such as invigorating the kidney and strengthening yang, dredging the meridian and activating collaterals, improving immunity, etc., and can treat symptoms such as deficiency of Qi and blood, waist and knee pain, rheumatoid arthritis, male impotence and premature ejaculation, female dysmenorrhea, and irregular menstruation. The medicinal liquor composition comprises rehmannia glutinosa, angelica sinensis, ligusticum wallichii, radix paeoniae alba, Chinese yam, common macrocarpium fruit, poria cocos, rhizoma alismatis, cortex moutan, radix codonopsis, Atractylodes macrocephala, licorice, semen cuscutae, longspur epimedium, fructus schizandrae, ginseng, ganoderma lucidum, adenophora stricta, Morinda officinalis, fructus cnidii, cistanche salsa, leek seeds, malaytea scurfpea fruit, mantis egg-case, oysters, walnut kernels, donkey-hide gelatin, polygonatum odoratum, seal penis, freshwater sponge, fructus lycii, hippocampus, medical pipefish, penis cervi, penis canitis, costus root, anise, agarwood, cloves, sandalwood, nutmeg, tangerine peel, amomum, juncus roemerianus, gardenia, chrysanthemum, caulis sinomenii, caulis pipers

futokadsurae, turmeric, papaya, clematis chinensis, radix angelicae pubescentis, radix angelicae, radix aconiti preparata, Chinese iris seed, flos carthami, radix aconiti kusnezoffi preparata, vine multiflower knotweed, beautiful millettia root, and climbing entada.

21: 2023/08754. 22: 2023/09/14. 43: 2024/03/18  
51: G06Q

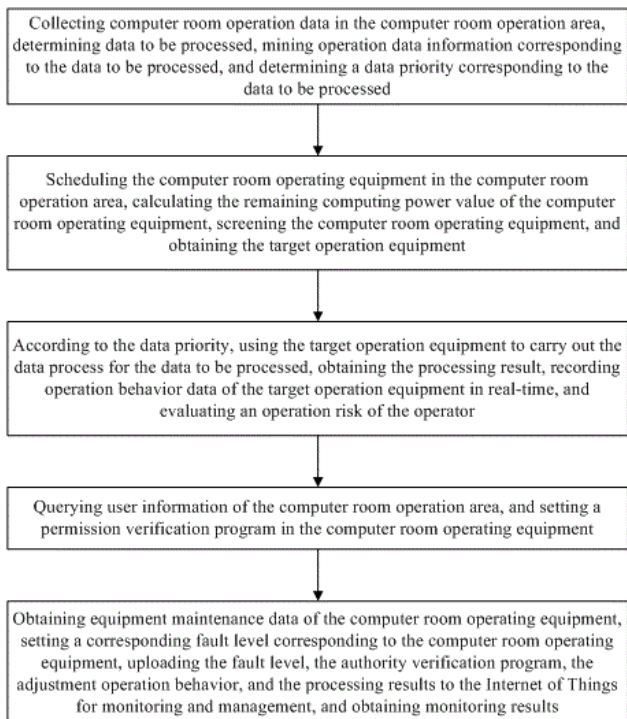
71: Information Communication Branch of China Southern Power Grid Energy Storage Co., Ltd.

72: Zhenqian WANG, Zhu ZHU, Jianghua REN, Jianlu LI, Lin WANG, Xinxin LU, Guanghai SUN

#### **54: INTELLIGENT MONITORING METHOD AND SYSTEM FOR THE COMPUTER ROOM OPERATION AREA**

00: -

The invention discloses an intelligent monitoring method and system for the computer room operation area, which belongs to the technical field of computer room operation area management, including: mining operation data information corresponding to the data to be processed, and determining the data priority; calculating the remaining computing power value corresponding to the computer room operating equipment, screening the computer room operating equipment, and obtaining the target operation equipment; carrying out a data process for the data to be processed, obtaining a processing result, recording operation behavior data in real-time, and evaluating the operation risk; setting a permission verification program; obtaining equipment maintenance data, setting the fault level, processing results to the Internet of Things for monitoring and management, and obtaining monitoring results. The invention adopts the intelligent monitoring method and system for the computer room operation area, which greatly improves the monitoring efficiency of the computer room operation area.



21: 2023/08757. 22: 2023/09/14. 43: 2024/03/18  
51: E04C

71: CHINA CONSTRUCTION SECOND ENGINEERING BUREAU LTD

72: Wu, suhui, Zhang, yang, Wang, shaodong, Wang, jiabao, Luo, wang, Zhang, yangyang, Zhang, lang, Xia, weijun

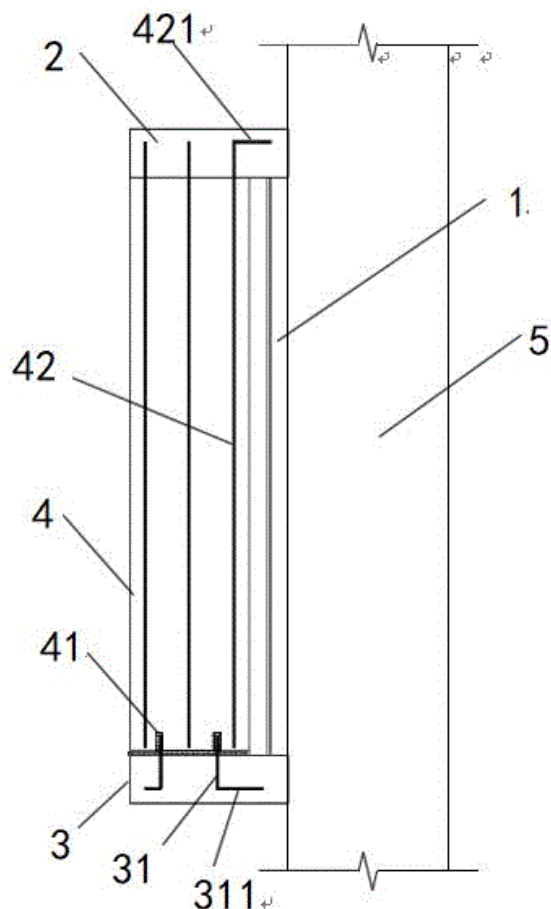
33: CN 31: CN202321431718.7 32: 2023-06-07

#### **54: EXTERNAL DECORATIVE UPRIGHT COLUMN ASSEMBLING STRUCTURE**

00: -

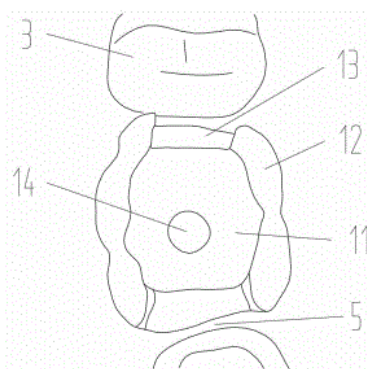
The present invention relates to the technical field of building construction, and discloses an external decorative upright column assembling structure, including a wall body, an upper beam plate, a lower beam plate and a prefabricated decorative column component. The upper beam plate and the lower beam plate are connected to the wall body, respectively; the upper beam plate and the lower beam plate are arranged oppositely; a first connecting rib is embedded in the lower beam plate; a top end of the first connecting rib extends out to the top of the lower beam plate; the prefabricated column component is arranged between the upper beam plate and the lower beam plate; the prefabricated decorative column component is arranged at the top of the lower beam plate; a positioning groove is formed at the bottom of the prefabricated decorative column component; a top

end of the first connecting rib is inserted in the positioning groove; and the top of the prefabricated decorative column component and the upper beam plate are connected into a whole body. The discloses an external decorative upright column assembling structure of the present invention can effectively improve the construction quality, is simple and convenient in operation, safe and reliable, and saves a valuable construction period.



21: 2023/08761. 22: 2023/09/14. 43: 2024/03/18  
51: A61C  
71: CHENGDU KANGMEISHENG MEDICAL TECHNOLOGY CO., LTD.  
72: LUO, Qiang  
33: CN 31: 202221107948.3 32: 2022-05-10  
**54: DENTAL CROWN OF DENTAL IMPLANT AND DENTAL IMPLANT THEREOF**  
00: -  
Disclosed are a dental crown of a dental implant and a dental implant thereof. The dental crown of the dental implant includes a dental crown body. An

occlusal side groove is reserved in the top of the dental crown body, an interocclusal space is reserved between a groove bottom adjacent wall of the occlusal side groove and an opposing tooth, the reserved occlusal side groove is used for the filling of photosensitive resin, and the photosensitive resin is used for making contact with the opposing tooth.

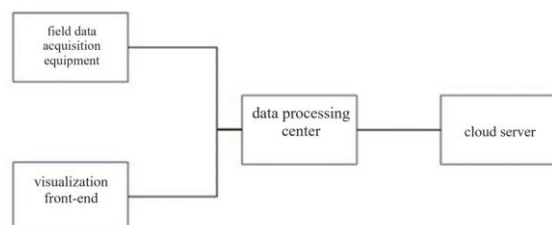


21: 2023/08781. 22: 2023/09/15. 43: 2024/03/18  
51: G06Q  
71: China Southern Power Grid Peak Shaving and Frequency Modulation Power Generation Co., Ltd, Engineering Construction Management Branch of China Southern Power Grid Peak Shaving and Frequency Modulation Power Generation Co., Ltd  
72: Feng CAO, Peng ZHANG, Tao LIU, Gang ZHOU, Xiaolong YANG, Guangyong ZENG, Jianxu ZHONG, Yupeng ZHOU, Jishuang HAN, Jing LI, Yueyang ZHENG  
33: CN 31: 2023100299864 32: 2023-01-10  
**54: GIS-BASED THREE-DIMENSIONAL MONITORING SYSTEM FOR PROJECT PROGRESS**  
00: -

The present invention provides a GIS-based three-dimensional monitoring system for project progress, including an on-site data acquisition equipment, a data processing center, a visualization front-end, and a cloud server, the on-site data acquisition equipment and the visualization front-end are respectively communicated and connected to the data processing center, and the data processing center is communicated and connected to the cloud server. The data processing center is used for docking with the business data system, acquiring key index data, realizing the integration and visualization of video image data, key index data and GIS map based on the GIS map of the construction



site, the visualization front-end is used for acquiring data from the data processing center in order to realize remote monitoring of the construction site, and the cloud server is used for storing engineering construction related data. The present invention can help project managers to timely grasp the project construction site of each work surface's situation, to ensure the progress of the project and the safety of the work site



21: 2023/08782. 22: 2023/09/15. 43: 2024/03/18  
51: A61G

71: THE AFFILIATED HOSPITAL OF GUIZHOU MEDICAL UNIVERSITY

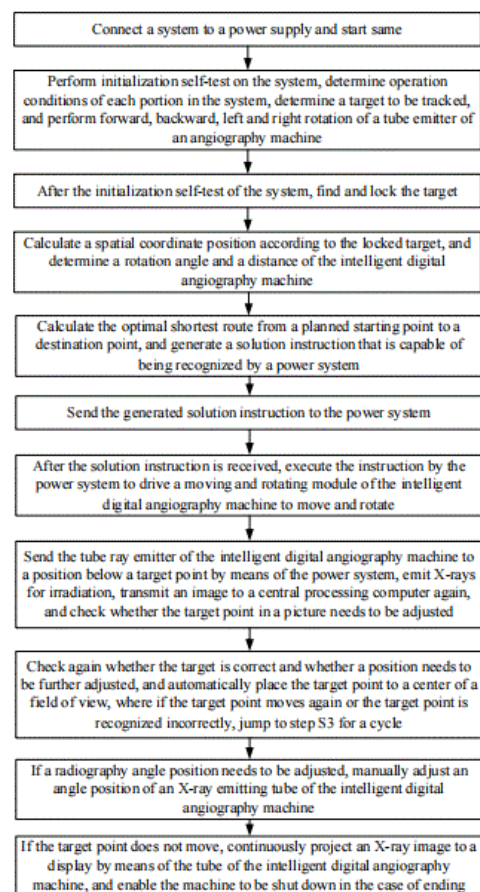
72: CUI, Junshuan, ZENG, Xi, XU, Yuan, XU, Kaya, XIANG, Xin, SONG, Jiaquan, HU, Yucheng, MING, Jiang, YANG, Hua, CHU, Liangzhao, LIU, Xianqi, LIU, Junchi, LIU, Chengyun, YAN, Zhangwei, XIONG, Mingsong

33: CN 31: 202310453083.9 32: 2023-04-25

#### 54: USING METHOD OF INTELLIGENT ANGIOGRAPHY MACHINE SYSTEM

00: -

Disclosed in the present invention is a using method of an intelligent angiography machine system. The using method includes the following steps: S1. connecting the system to a power supply and starting same; S2. performing initialization self-test on the system, determining operation conditions of each portion in the system, determining a target to be tracked, and performing forward, backward, left and right rotation of a tube emitter of an angiography machine; S3. after the initialization self-test of the system, finding and locking the target; S4. calculating a spatial coordinate position according to the locked target, and determining a rotation angle and a distance of the intelligent digital angiography machine; and S5. calculating the optimal shortest route from a planned starting point to a destination point, and generating a solution instruction that is capable of being recognized by a power system.



21: 2023/08783. 22: 2023/09/15. 43: 2024/03/18  
51: G01C

71: CCCC FIRST HIGHWAY ENGINEERING GROUP CO., LTD, THIRD ENGINEERING CO.,LTD OF CCCC FIRST HIGHWAY ENGINEERING GROUP

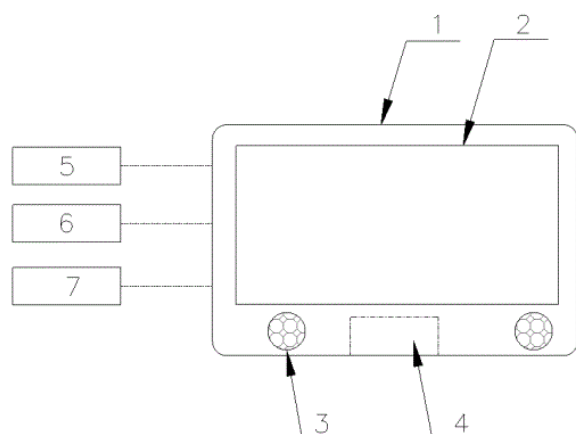
72: Yi QIU, Zhenguo LIU, Junwei WANG, Chao ZHANG, Tao ZHANG, Ying LIU, Sixing CHEN, Yongjie ZHAO, Kaikai SHI, Huan SONG, Yu QIN, Wenbo ZHANG

#### 54: A SETTLEMENT MONITORING DEVICE AND MONITORING METHOD FOR TUNNEL UNDER-CROSSING EXISTING GROUND OBJECTS

00: -

The present invention discloses a settlement monitoring device and monitoring method for tunnel under-crossing existing ground objects, including a monitoring host, the monitoring host is equipped with a display screen and a sound and light alarm, and the monitoring host is installed with a control circuit board, it also includes multiple fiber Bragg grating sensors, displacement sensors and pressure sensors, wherein multiple fiber Bragg grating

sensors, displacement sensors and pressure sensors are connected to the monitoring host. The present invention has simple working principle and high intelligence, it can monitor the settlement signal of existing ground objects in real time, once the settlement value exceeds the normal value, an early warning signal is issued immediately, and the measured settlement value is of high precision, which ensures the safety of existing ground objects and tunnels.



21: 2023/08784. 22: 2023/09/15. 43: 2024/03/18  
51: E01C

71: CCCC FIRST HIGHWAY ENGINEERING GROUP CO., LTD, THIRD ENGINEERING CO.,LTD OF CCCC FIRST HIGHWAY ENGINEERING GROUP

72: Dedong FAN, Zhenguo LIU, Yi QIU, Junwei WANG, Chao ZHANG, Yongjie ZHAO, Ying LIU, Sixing CHEN, Yu QIN, Wenbo ZHANG, Cun LI, Shengxiang LUO, Mingzhi CAO

#### **54: TREATMENT METHOD FOR SHORTENING THE SETTLEMENT PERIOD OF WET COLLAPSIBLE LOESS ROADBED**

00: -

The invention discloses a treatment method for shortening the settlement period of wet collapsible loess roadbed, which belongs to the treatment field of collapsible loess roadbed, including geological survey; drilling and fixing piles; preparation of the cement fly ash mixed slurry; preparation of the cement fly ash pile; filling among the piles; road repair. The invention adopts the above treatment method for shortening the settlement period of wet collapsible loess roadbed, the land load is reduced, the loess compactness is increased, and the void ratio is reduced, cement soil and gravel soil are filled

between piles to eliminate the collapsibility of loess roadbed, the seismic capacity of loess roadbed is improved, and the settlement period is shortened.

Geological survey: The geological survey of the loess roadbed to be filled is performed, the geological survey includes the detection of the water content, density, natural void ratio and collapsibility coefficient under the pressure of the loess soil layer, after the thickness of the loess soil layer and the bearing capacity of the roadbed are detected, compacting the depressed loess roadbed, and then measuring the height of the depression

Drilling and fixing piles: The range of the side of the roadbed is determined according to test results, the fixed pile hole positions on both sides of the side of the roadbed are set and the depth of the hole position is determined, then the holes on both sides are numbered in order, the tip of the pile pipe is put down into the hole position of the first pre-drilling hole by using the pile driver first, the pile pipe is divided into an inner pipe and an outer pipe, the bottom of the inner pipe is set with the pile tip, and the pile pipe is hammered down to the predetermined depth, after the drilling is completed, the inner pipe is taken out, and the loess inside the outer pipe and the nozzle are cleaned to facilitate the subsequent grouting inside the pile pipe

Preparation of the cement fly ash mixed slurry: after the cement, sand, gravel, fly ash with a certain mixing ratio are mixed evenly, a certain ratio of water are added into the mixer for mixing until it mixes into the formation of cement fly ash mixed slurry

Preparation of the cement fly ash pile: After the preparation of cement fly ash slurry is finished, the cement fly ash slurry are poured into the cleaned outer pipe until it reaches the top of the outer pipe, the outer pipe are pulled out after a period, after the pile is formed, the pile pipe is driven into the next numbered hole position by the pile driver, and the above steps are repeated to drill the next numbered hole position

Filling among the piles: the gravel soil and cement soil are filed layer by layer among piles after the cement fly ash pile is finished, first, after the bottom layer is filled with a layer of gravel soil, compacting the gravel soil at the bottom layer is compacted for several times by the smooth drum roller, after the gravel soil at the bottom layer is compacted, a layer of cement soil is filled above the gravel soil at the bottom layer, and the smooth wheel roller is used to compact for many times until the soil is compacted, the gravel soil and cement soil are filled in turn until they are laid to the surface of the roadbed

Road repair: After the last layer of laying is completed, the road is proceed by a smooth treatment and the excess gravel soil or cement soil is removed after the soil is compacted by the smooth wheel roller

21: 2023/08786. 22: 2023/09/15. 43: 2024/03/18  
51: B60R; G08G; G06Q

71: MARGUERAY, Cyril, AGOSTINHO, David

72: MARGUERAY, Cyril, AGOSTINHO, David

33: FR 31: FR2102463 32: 2021-03-12

#### **54: METHOD FOR IDENTIFYING STOLEN VEHICLES**

00: -

The invention relates to a method for identifying stolen vehicles by means of an information

management system comprising at least one centralised user data management server provided with data storage means, a processing unit and means for communicating data in and out of the server with a global network of the Internet type, and remote terminals held by users and provided with a dedicated software application for organising and communicating input data.

21: 2023/08787. 22: 2023/09/15. 43: 2024/03/18

51: G06Q

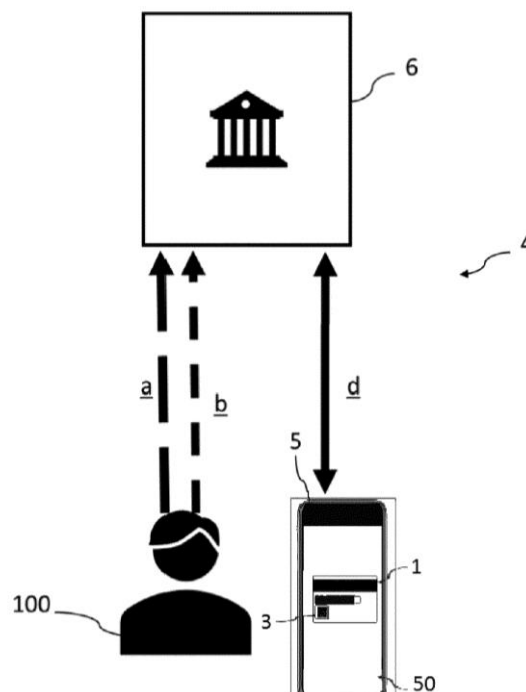
71: CCS12

72: SMADJA, William, ABISDID, Marlène

33: FR 31: FR2101800 32: 2021-02-24

**54: PAYMENT CARD, AUTHENTICATION METHOD AND USE FOR A REMOTE PAYMENT**  
00: -

The invention relates to a payment card (1) which comprises, on one side (10, 11), at least one authentication cryptogram (3), said authentication cryptogram (3) being unique and belonging to the payment card (1), the authentication cryptogram (3) being affixed to the payment card (1), said authentication cryptogram (3) forming a means of identifying the payment card (1) by optical recognition, said identification means being linked to a bank account to which the payment card (1) is linked. The invention also relates to a method for authenticating the payment card (1) and the bearer (100) of said payment card (1) with a view to carrying out a secure operation relating to personal data of the bearer (100) of the payment card (1). Finally, the invention relates to a use of the authentication method to make a remote payment using the payment card (1).



21: 2023/08788. 22: 2023/09/15. 43: 2024/03/26

51: B23K

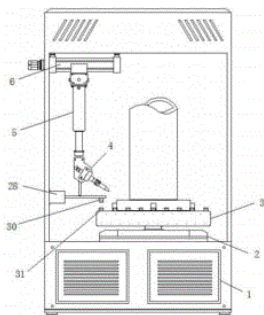
71: SHANDONG FANGDA ENGINEERING CO., LTD

72: LI, Jie, LI, Gang, TIAN, Hu, ZHANG, Hui, SI, Niandong, KANG, Hongqin, XING, Dexi, LIU, Xiaoxuan, HUANG, Hongyuan, TAN, Tingqiang, YAN, Wei, QIAO, Guoliang, WANG, Gang

33: CN 31: 202211181229.0 32: 2022-09-27

**54: AUTOMATIC DOUBLE-LINKAGE WELDING MACHINE**  
00: -

Disclosed is an automatic double-linkage welding machine. The automatic double-linkage welding machine includes a base body, a positioner and a welding gun, where the positioner is mounted above the base body and configured to control rotation of a pipeline during subsequent welding, and the welding gun configured to weld is provided inside the base body; a position control mechanism is connected to a position above the welding gun, a position of the welding gun can be adjusted by the position control mechanism, and the welding gun can move to a welding seam; and a placing seat is mounted above the positioner and configured to allow a welding member to be placed, the placing seat can rotate with the positioner, and flange positioning blocks are provided on the placing seat.



21: 2023/08808. 22: 2023/09/18. 43: 2024/03/18  
51: E01C  
71: Cangzhou Yudao Construction Engineering Co., Ltd

72: HE Zhengfeng, CHEN Wei, LIU Jian, XIE Haifeng, WANG Qi, NIU Nan, WANG Gang, GUO Wei, ZHANG Xuan, YANG Yang, HAN Ronggao, CUI Ye, XU Yanhui, LIU Yunfei, FENG Zhirui, ZHANG Fengchao, XIE Xihui, SHI Xiaojian, CHEN Lin, XUE Yuping

#### **54: RAPID REPAIR AND REINFORCEMENT TREATMENT PROCESS OF HIGHWAY STRUCTURE LAYER BY GROUTING**

00: -

The invention relates to a rapid repair and reinforcement treatment process of highway structure layer by grouting, comprising that following steps: uniformly drilling holes at the diseased parts of the road surface and 2 - 3 m outside the diseased parts at a hole spacing of 1.2 - 1.8 m according to the positions of cracks, subsidence and slurry pumping on the road surface, carrying out grouting to the structural layer of the road surface through a grouting device, and filling and compacting the gaps and voids of the structural layer by the slurry, so as to achieve the purpose of reinforcing the structural layer. The technology of the invention realizes the rapid repair of structural layer voids and voids caused by pavement cracks, subsidence and slurry pumping, and the reinforcement of pavement structural layer is quickly realized through inspection, hole arrangement, drilling, grouting and hole sealing, thus effectively realizing the rapid repair of pavement structural layer voids and voids, truly achieving the purpose of effectively controlling or inhibiting the development of subgrade diseases and preventing the occurrence of secondary diseases.

21: 2023/08809. 22: 2023/09/18. 43: 2024/03/18

51: G06F

71: Fuzhou University

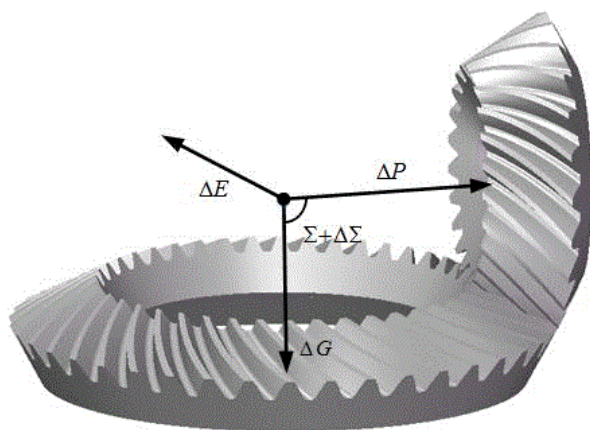
72: JIA Chao, ZHAO Botao, YAO Ligang, LV Yuntao

#### **54: METHOD FOR REDESIGNING HIGH-ORDER TRANSMISSION ERROR TOOTH SURFACE OF SPIRAL BEVEL GEARS**

00: -

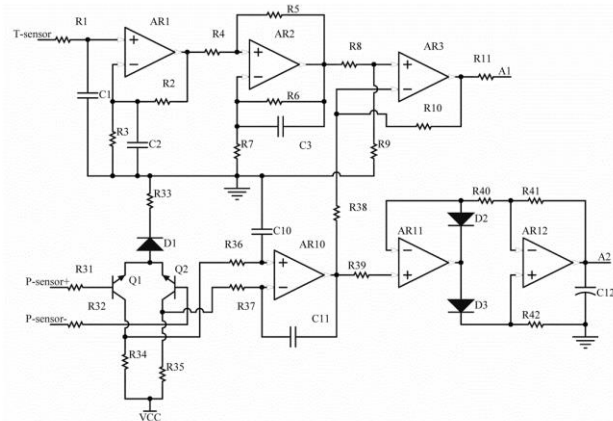
The invention provide a redesign method of a spiral bevel gear high-order transmission error tooth surface, which is characterized by comprise that following steps: Determining the machining parameters of the gearwheel and the pinion of the gear pair in the target tooth surface, obtaining the meshing point of the tooth surface through the curve shape of the high-order transmission error, establishing constraint equations based on the meshing point, obtaining the curve equation, and obtaining the equivalent solution of the installation misplacement according to the curve equation combined with the tooth surface imprint and contact trace generated in the gear meshing process; Based on the equivalent solution of installation misplacement, the coordinate deviation is obtained by comparing the target tooth surface coordinates with the coordinates of the tooth surface equation calculated according to the theoretical tooth surface equation, and the coordinate deviation is calculated by L-M iterative algorithm to obtain the deviation amount; through the machining parameters and deviation of the machine tool, the machining parameters of the pinion machine tool corresponding to the target tooth surface are obtained and verified. The invention can make the spiral bevel gear pair reach the ideal meshing state under the actual working condition after redesigning the processing parameters.





21: 2023/08810. 22: 2023/09/18. 43: 2024/03/18  
51: G01M  
71: ZHENGZHOU RAILWAY VOCATIONAL &  
TECHNICAL COLLEGE  
72: Guo Xiaojing, Lin Tao, Zhu Jin, Zhao Yan, Dong  
Xinyu  
**54: A FIBER OPTIC CONNECTION BOX**  
00: -

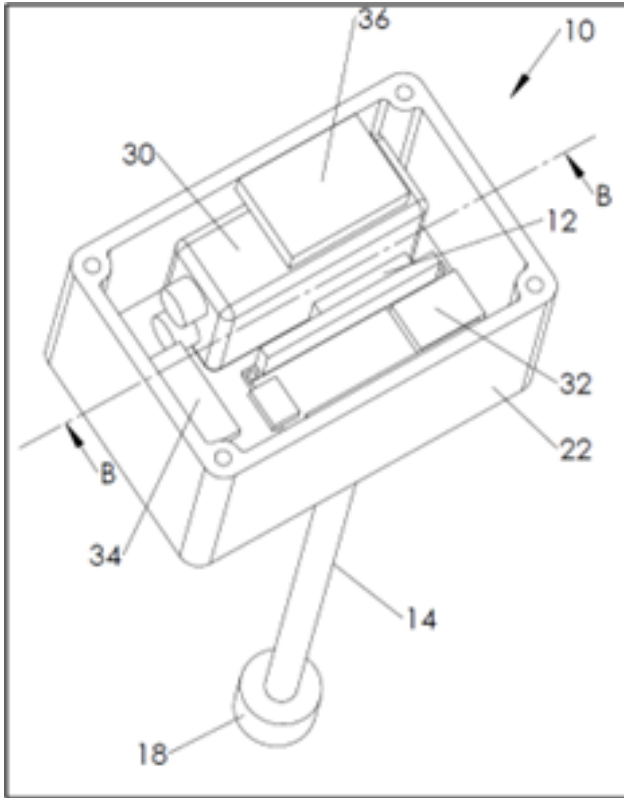
The present invention discloses a fiber optic connection box, comprising a pressure sensor for detecting pressure inside the connection box and a temperature sensor for detecting temperature inside the connection box. The output end of the temperature sensor is connected to one input end of the temperature and pressure synchronous detection unit through a temperature change rate detection unit, and the other input end of the temperature and pressure synchronous detection unit is connected to the output end of the pressure sensor through a pressure change rate detection unit; The output end of the temperature and pressure synchronous detection unit is connected to a sealing detection alarm unit for detecting the sealing of the optical fiber connection box, and the sealing detection alarm unit is connected to the pressure change rate detection unit. The present invention can accurately distinguish the sealing condition inside the connection box based on the temperature change rate and pressure change rate, reducing the problem of false alarms.



21: 2023/08813. 22: 2023/09/18. 43: 2024/03/18  
51: G01F  
71: EDUAN-TEK VERVAARDIGINGS BK  
72: JOHANNES JACOBUS NAUDE  
33: ZA 31: 2022/06905 32: 2022-06-22  
**54: ELECTRONIC LIQUID LEVEL SENSING UNIT**  
00: -

The invention provides an electronic liquid level sensing unit for measuring a level of liquid with a predetermined liquid density within a reservoir. The unit comprises a pressure sensor suspended above the liquid level; a hollow flexible tube extending from the pressure sensor and terminating in an open tube end that protrudes partially into the liquid to create a vertical air column within the tube; and a tube weight connected to the open tube end of the flexible tube for vertically weighting down the flexible tube at least partially into the liquid. The pressure sensor measures alternating air pressure within the vertical air column to determine the level of liquid within the reservoir.





21: 2023/08820. 22: 2023/09/18. 43: 2024/03/18

51: F42B; F42C; F42D

71: DETNET SOUTH AFRICA (PTY) LTD

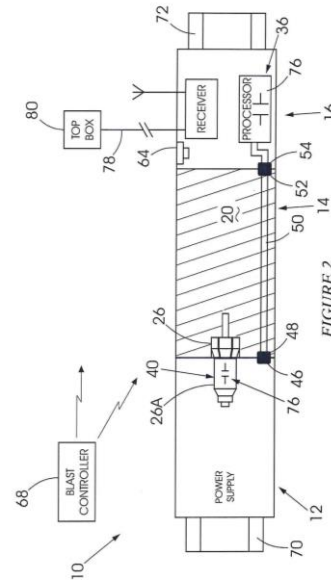
72: MULLER, Elmar Lennox, LIEBENBERG, Abraham Johannes

33: ZA 31: 2021/06078 32: 2021-08-24

#### 54: WIRELESS DETONATOR ARRANGEMENT

00: -

A wireless detonator arrangement wherein an initiator is positioned between a power supply and a housing which contains an explosive and through which extends conductors which connect a signal processor to the power supply and to the initiator.



21: 2023/08848. 22: 2023/09/19. 43: 2024/03/20

51: E21D

71: CHINA CONSTRUCTION SECOND ENGINEERING BUREAU LTD., THE CIVIL ENGINEERING GROUP CORPORATION OF CHINA SECOND ENGINEERING BUREAU. LTD

72: YAO Zaifeng, HU Xiaochuan

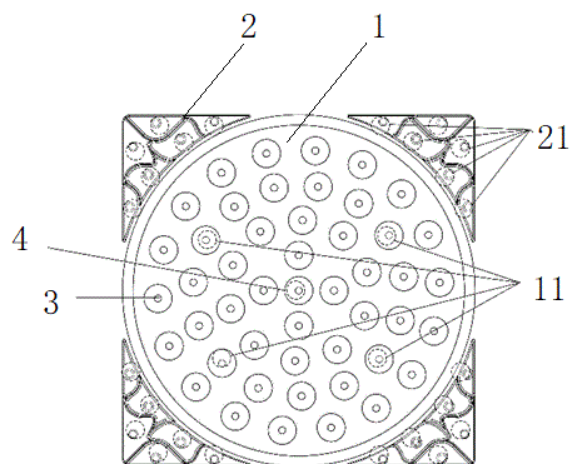
33: CN 31: CN202211546656.4 32: 2022-12-05

#### 54: AIRBAG STRUCTURE FOR PREVENTING TUNNEL IRRIGATION AND COLLAPSE AND USE METHOD THEREOF

00: -

The invention discloses an airbag structure for preventing tunnel irrigation and collapse, which is arranged in a tunnel, and comprises a main structure airbag, which is arranged in the center, and a plurality of main structure airbag inflation tubes are fixedly arranged in the main structure airbag, and one end of the main structure airbag inflation tubes extends out of the main structure airbag, and one or more water pressure release pipes are arranged on the main structure airbag; sub-structure airbags, the number is set to four, and that four sub-structure airbags are arranged on the outer side of the main structure airbag at equal intervals; after the airbag structure expands, the inner side faces of the sub-structure airbags are attached to the outer side faces of the main structure airbags, and the outer side faces of the sub-structure airbags are attached to the inner surface of the tunnel to fill and block the whole tunnel section, and a plurality of sub-structure airbag inflation tubes are arranged in the sub-

structure airbags; and a plurality of Rachel tubes are arranged in the main structure airbag at even intervals, and are adhered and fixed together with the main structure airbag for restraining the main structure airbag from expanding longitudinally in the front and back direction.



21: 2023/08850. 22: 2023/09/19. 43: 2024/03/20  
51: G06F

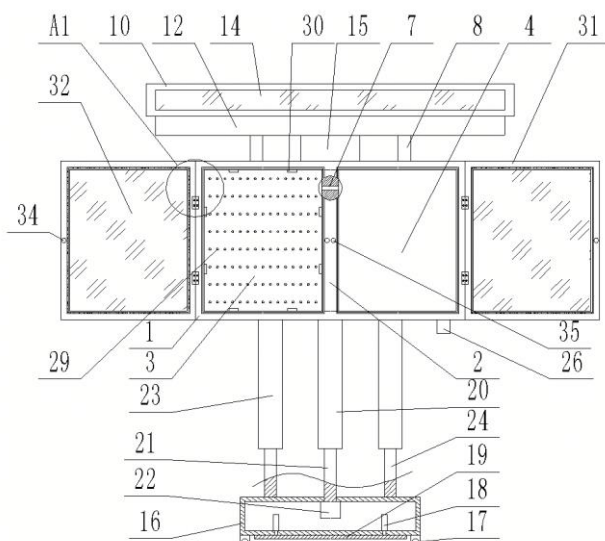
71: Hebei Chemical & Pharmaceutical College  
72: WANG Pengyan

#### **54: DISPLAY DEVICE FOR PUBLICIZING EDUCATIONAL KNOWLEDGE**

00: -

The invention discloses a display device for publicizing educational knowledge, which comprises a shell, wherein one side of the shell is set as an open end, the middle part of the inner cavity of the shell is fixedly connected with a partition plate, which divides the inner cavity of the shell into a first chamber and a second chamber, the open end of the shell is symmetrically provided with two sealing devices, the inner wall of the first chamber is fixedly connected with a display board, the second chamber is provided with an electronic screen, the inner wall of the first chamber is fixedly connected with an air pump, and the output end of the air pump is communicated with the outside and provided with a check valve. The partition plate is provided with a plurality of vent holes for communicating the first chamber and the second chamber, the bottom surface of the second chamber is provided with a filtering device, the top surface of the shell is provided with a shielding device, the top of the

shielding device is provided with a power supply device, the bottom surface of the shell is provided with a lifting device, the bottom of the lifting device is provided with a supporting device. The invention can ensure the observation clarity and reduce the maintenance cost.



21: 2023/08853. 22: 2023/09/19. 43: 2024/03/20  
51: F24B; F24C; H01G; H01H

71: DAWID FRANCOIS JANSEN VAN RENSBURG

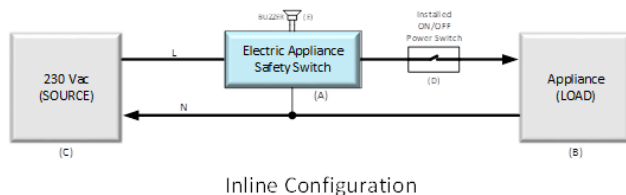
72: DAWID FRANCOIS JANSEN VAN RENSBURG

33: ZA 31: 2022/10655 32: 2022-09-27

#### **54: ELECTRIC APPLIANCE SAFETY SWITCH**

00: -

The invention provides a safety switch for an electric appliance, the switch being characterised therein that it isolates a load from a mains electrical power source when electricity is restored following a power failure for as long as a load is present (as will happen when the appliance is left on while the electricity supply is interrupted for an unattended period of time), and only enables heavy current to flow once the load is recycled or a power/control switch is cycled. In order to restore electricity to the appliance the safety switch must be reset by a user, thus ensuring that it will only heat up again under supervision.



21: 2023/08854. 22: 2023/09/19. 43: 2024/03/20  
51: C07D; A61P

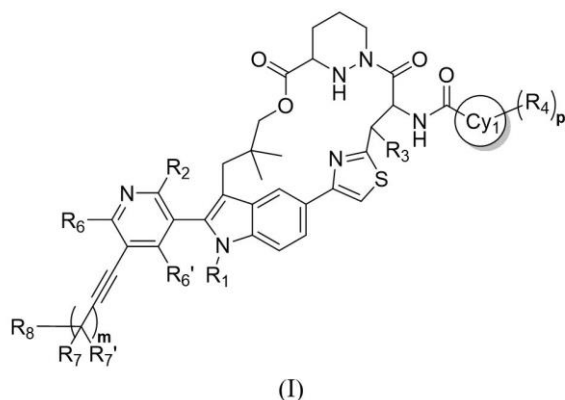
71: ADLAI NORTYE BIOPHARMA CO., LTD.  
72: CHEN, Yufeng, LV, Meng, LIU, Canfeng,  
CHENG, Wanli, LI, Feifan, YANG, Han, CHEN,  
Kaixuan, LIU, Shuaishuai, HE, Nanhai

33: CN 31: 202211154665.9 32: 2022-09-19

#### 54: A PAN-KRAS INHIBITOR COMPOUND

00: -

The present invention relates to a pan-KRAS inhibitor compound represented by formula (I) and a pharmaceutical composition containing the compound, and the use of compound of formula (I) for preventing and/or treating cancer, tumor, inflammatory disease, autoimmune disease or immune-mediated disease.



21: 2023/08855. 22: 2023/09/19. 43: 2024/03/20  
51: H01M

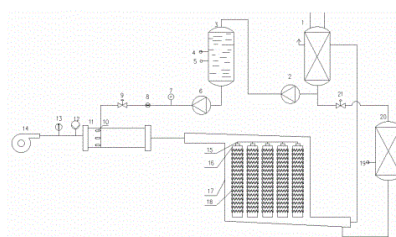
71: Harbin Engineering University  
72: FAN, Liyun, JIANG, Zejun, YANG, Changzhu,  
ZHANG, Jianyu, CHEN, Chao, WU, Xiaojun,  
ZHANG, Jin

#### 54: SPRAY-COOLING THERMAL MANAGEMENT SYSTEM FOR BATTERY WRAPPED IN V-SHAPED FIN

00: -

The invention aims to provide a spray-cooling thermal management system for a battery wrapped in a V-shaped fin. The spray-cooling thermal management system for a battery wrapped in a V-shaped fin includes a battery heat dissipation

module, an atomizing module, an air supply module and a recovery module, where the battery heat dissipation module includes a Z-shaped air box and battery cells, the battery cells are connected by means of a connecting row to form a battery module which is placed in the Z-shaped air box; the atomizing module includes a liquid storage tank and a mixing channel, an output pipeline of the liquid storage tank extends into the mixing channel, and the part of the output pipeline extending into the mixing channel is provided with atomizing nozzles; the air supply module includes a fan, and the fan is in communication with the mixing channel.



21: 2023/08886. 22: 2023/09/20. 43: 2024/03/20  
51: A01G

71: Huijin Technology Holding Group Co., Ltd  
72: HE, Juanni, ZHANG, Wenxin  
33: CN 31: 202310813528X 32: 2023-07-05  
54: SOILLESS SPRAY-SEEDING SUBSTRATE  
AND PREPARATION METHOD AND  
APPLICATION THEREOF

00: -

Provided are a soilless spray-seeding substrate and a preparation method and application thereof. The soilless spray-seeding substrate disclosed in the present invention has various raw materials easy to obtain, is simple in structure, easy to prepare, low in cost, and desirable in water absorption and fertilizer retention capacities, and can rapidly satisfy growth requirements of a plant on a sandy slope, and promote ecological restoration of vegetation on the sandy slope. Tests show that the soilless spray-seeding substrate is wide in application range and strong in erosion resistance and water and soil loss resistance, has an effect that the plant on the slope can be rapidly grown, and is particularly suitable for a high and steep sandy slope having a gradient of 25 degree -60 degree and a length of 5 m-20 m such that a biological community can be rapidly formed on the high and steep sandy slope.

21: 2023/08887. 22: 2023/09/20. 43: 2024/03/20  
51: E02D

71: Huijin Technology Holding Group Co., Ltd

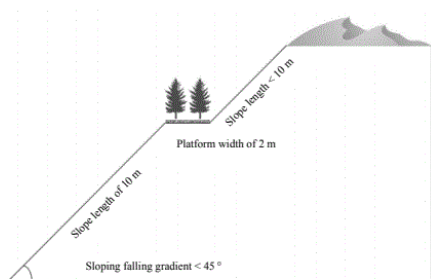
72: HE, Juanni, ZHANG, Wenxin

33: CN 31: 2023107541534 32: 2023-06-25

**54: ECOLOGICAL RESTORATION METHOD FOR HIGH AND STEEP SLOPE OF ABANDONED SAND QUARRY WITH AEOLIAN SAND LANDFORM**

00: -

The present invention provides an ecological restoration method for a high and steep slope of an abandoned sand quarry, which relates to the technical field of ecological restoration. The present invention includes constructing grass grids on a sandy slope, and then inserting corn stalks below each grass grid; uniformly punching holes in the grass grids, and applying a water-retaining fertilizer into the holes; horizontally grooving in each grass grid, uniformly mixing seeds of alfalfa, erect milkvetch, *Leymus chinensis* and *Setaria viridis*, scattering a mixture into grooves, covering the grooves with mixed soil of aeolian sandy soil and soft rock, and then performing maintenance and management. The restoration method can effectively improve a current situation of poor water retention performance and soil fertility in sandy soil, reconstruct a local ecological environment, and realize long-term stable circulation of the local ecological environment.



21: 2023/08896. 22: 2023/09/20. 43: 2024/03/20

51: A61K; C07K; C12N; A61P

71: BIOSION INC.

72: CHEN, Mingjiu

33: US 31: 63/178,741 32: 2021-04-23

**54: ANTIBODIES BINDING TROP2 AND USES THEREOF**

00: -

Provided is an isolated monoclonal antibody that specifically binds human TROP2, or the antigen-

binding portion thereof. A nucleic acid molecule encoding the antibody or the antigen-binding portion thereof, an expression vector, a host cell and a method for expressing the antibody or the antigen-binding portion thereof are also provided. Further provided are a bispecific molecule, an immunoconjugate, a chimeric antigen receptor, an oncolytic virus and a pharmaceutical composition comprising the antibody or the antigen-binding portion thereof, as well as a treatment method using an anti-TROP2 antibody or the antigen-binding portion thereof.

21: 2023/08927. 22: 2023/09/21. 43: 2024/03/22  
51: G09B

71: THE AFFILIATED HOSPITAL OF GUIZHOU MEDICAL UNIVERSITY

72: CUI, Junshuan, ZENG, Xi, CHEN, Guangtang, XU, Kaya, XIANG, Xin, ZHUO, Yingquan, YANG, Hua, CHU, Liangzhao, SHI, Xueping, LI, Bowen, HE, Longcai, WANG, Junhao, XIAO, Zhuo, WANG, Yixin, FENG, Xiaoyun

33: CN 31: 202211628424.3 32: 2022-12-17

**54: USING METHOD OF TRAINING SYSTEM FOR VASCULAR INTERVENTIONAL SURGERY**

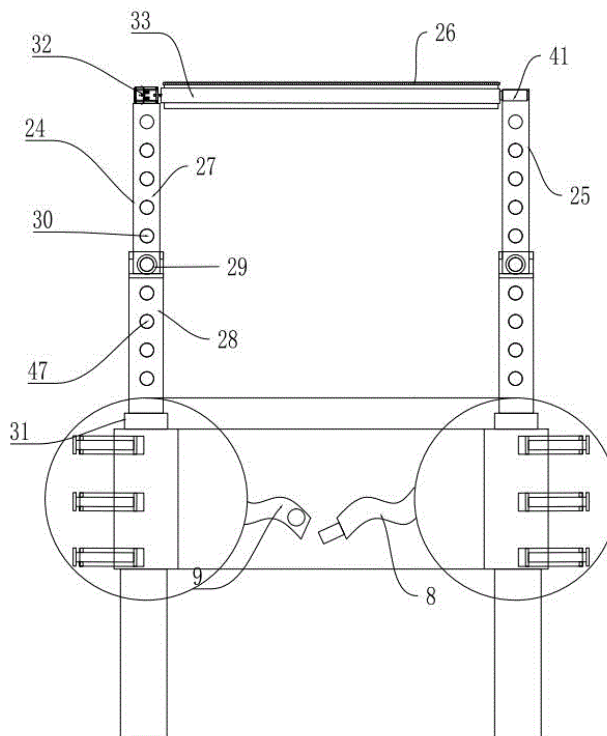
00: -

Disclosed in the present invention is a using method of a training system for vascular interventional surgery. The using method includes the following steps: S1. recognizing shapes and positions of tips of a guide wire and a catheter by means of an intelligent camera assembly, then feeding back same to a receiver, and finally generating position and depth of field information after processing by a central processing computer; and S2. enabling a camera to automatically follow movements of the tips of the guide wire and the catheter to change a position and automatically focus by means of a controller, and intelligently generating a real-time picture simulating real interventional surgery after analysis by the central processing computer, thereby displaying the real-time picture on a display device and achieving picture taking and video recording.



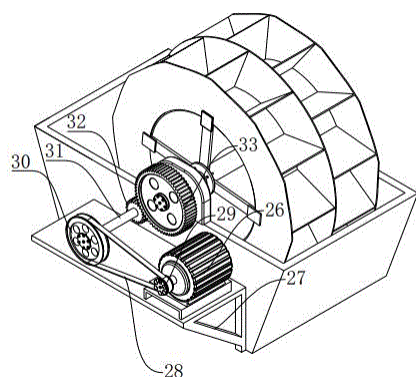
After traveling speeds, the positions and the shapes of the guide wire and the catheter are analyzed, give possible surgical complications and precautions, where a prompt is given to an operator on the display device

The invention belongs to the technical field of medical devices, and specifically relates to a general surgical precise positioning device, including a fixation body, a comfort adjustment component, a square and round shape-converting posture adjustment mechanism and an ergonomic head fixation mechanism, wherein said square and round shape-converting posture adjustment mechanism is set inside the fixation body, and said ergonomic head fixation mechanism is set on the fixation body; the invention provides a general surgical precise positioning device with the aim of solving the problem that the patient's head is simply fixed on the bed with a fixation strap to prevent the patient from moving around during the existing head surgery, which increases the patient's discomfort; the invention proposes a square and round shape-converting posture adjustment mechanism, which, through the mutual cooperation of the form-converting square ground-supporting mechanism and the support-nested flexible filling mechanism, ensures patient's comfort while fixing the patient's head.



A disinfection device for emergency instruments used in the intensive care unit comprises disinfection flushing drive assemblies, a disinfection accommodation assembly, a rotating drive mechanism, a drainage outlet, a drainage cover, a disinfection operation container, and a flip top cover. The invention belongs to the field of disinfection devices for medical equipments, in particular to a disinfection device for emergency instruments used in the intensive care unit; in order to solve the problem of disinfecting and cleaning the dead corners of the instruments, the invention proposes the disinfection flushing drive assemblies and the disinfection accommodation assembly, the protease solution entering in a vortex shape can quickly flush emergency instruments, and can treat blood stains that are difficult to treat in dead corners on emergency instruments.





21: 2023/08932. 22: 2023/09/21. 43: 2024/03/22

51: F16M

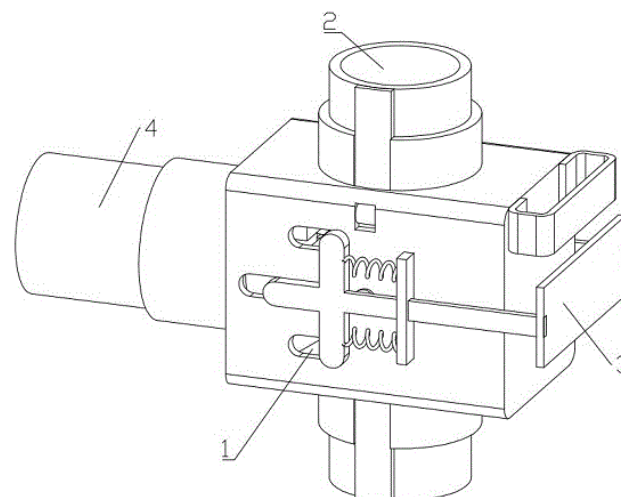
71: GUIZHOU VOCATIONAL COLLEGE OF ECONOMICS AND BUSINESS

72: Dejuan Lu

**54: CONVENIENT HEIGHT-ADJUSTABLE COMPUTER MONITOR BRACKET LOCKING DEVICE**

00: -

The invention discloses a convenient height-adjustable computer monitor bracket locking device, comprising adaptive boosting preload locking mechanisms, a longitudinal adjustment guiding component, a press-type unlocking mechanism, and a sliding stop mechanism. The invention belongs to the technical field of fastening connectors, and specifically refers to a convenient height-adjustable computer monitor bracket locking device; through the linear correspondence between the extrusion force and the maximum static friction force, the pulling force on the transverse support rod is used as the triggering condition to increase the friction force, which perfectly overcomes the technical contradiction that the friction force can neither be too small nor too large all the time; at the same time, in order to optimize ergonomics and improve the convenience and efficiency of operation, the invention also takes the lead in proposing a press-type unlocking mechanism, which can easily complete the unlocking by pressing, and automatically reset and lock after releasing. In the locked state, the firmness of the connection is always ensured through adaptive changes in friction.



21: 2023/08933. 22: 2023/09/21. 43: 2024/03/22

51: G01N

71: Hainan Medical University

72: ZHAO, Linlu, GUO, Junli, CHEN, Hongwei, XIONG, Wei, ZHENG, Shaojiang, ZHENG, Wuping, ZHANG, Xiaodian, CHEN, Yan, WANG, Bingshu

**54: METHOD FOR PREPARING NEAR-INFRARED SILVER SULFIDE QUANTUM DOT PROTEIN NANOCOMPOSITE AND USE THEREOF**

00: -

The present disclosure provides a method for preparing a near-infrared silver sulfide quantum dot protein nanocomposite and the use thereof, and relates to the field of biomedical technology. The present disclosure is conducive to realizing the controlled release of medicines and improving the curative effect.

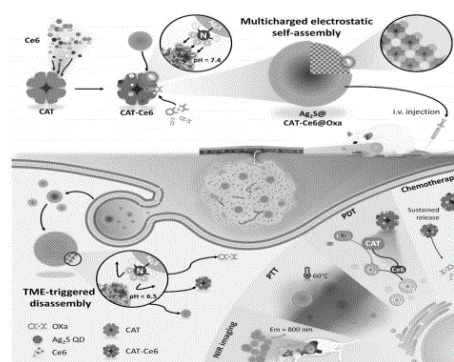


FIG. 1

21: 2023/08939. 22: 2023/09/21. 43: 2024/03/20

51: G06Q

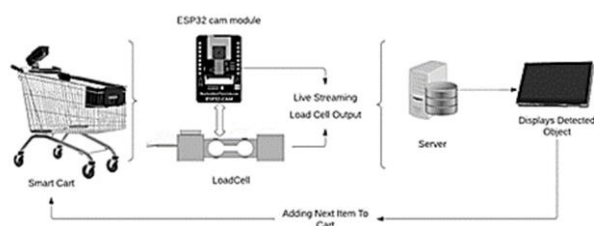
71: VISHWAKARMA INSTITUTE OF TECHNOLOGY

72: DONGRE, Ganesh, CHOLKE, Puja A., KOLPE, Phalesh D., PATIL, Siddhi, PATIL, Sanket D., POTE, Abhishek M., PATIL, Siddhesh S., PAWAR, Dhiraj D.

#### **54: A DIGITAL SHOPPING CART WITH AN AUTOMATIC BILLING SYSTEM**

00: -

The present invention is related to a digital shopping cart with an automatic billing system. People face the issue of overcrowding and long lines in supermarkets. Due to these long lines, people have to spend a lot of time waiting in lines, which is frustrating. In this post-COVID era, everyone has become health conscious, and overcrowding may lead to the spread of disease and viral infections. This invention builds up a solution to deal with the problem of overcrowding and long queues in supermarkets. A model to solve this problem by creating a Digital shopping cart that works on the concept of image reorganisation and uses various IOT protocols. The customer just has to put the products they want to buy in the cart, and the products will be added to their bill. We have used various technologies, like Image processing, by using the OpenCV and Tensor Flow libraries in Python and integrating them with microprocessors, cameras, and load cells to create the digital shopping cart.



21: 2023/08940. 22: 2023/09/21. 43: 2024/03/22

51: A01G

71: VISHWAKARMA INSTITUTE OF TECHNOLOGY

72: DESHPANDE, Rupali S., GAIKWAD, Vijay D., JANOKAR, Sagar G., FARGADE, Ashish, FATANGARE, Saish, GADGIL, Aditya, SAWANT, Gagnesh, GAIKWAD, Ankita

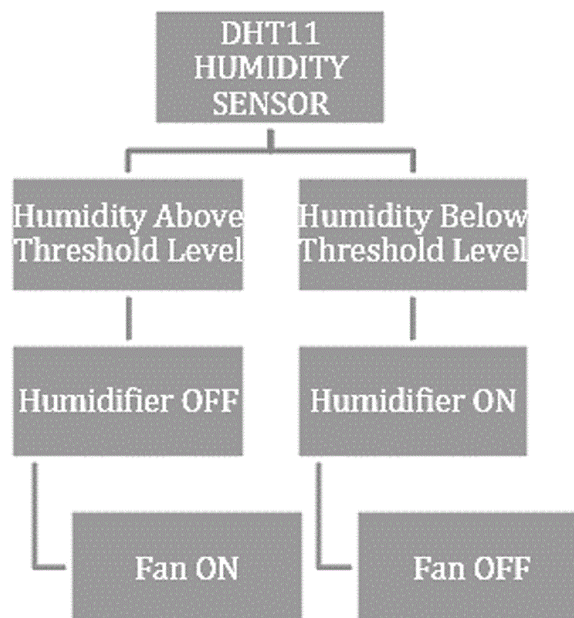
#### **54: AN AUTOMATED GREENHOUSE SYSTEM BASED ON ARDUINO UNO**

00: -

The present invention related to An Automated Greenhouse System based on Arduino Uno. The present innovative design an automated greenhouse

model utilizing Arduino Uno microcontrollers.

Greenhouses play a pivotal role in modern agriculture, especially in the face of rapid urbanization and limited arable land. The proposed model aims to optimize crop productivity and resource management while enabling farmers to diversify their yields within confined spaces. The system incorporates various sensors, including DHT11 (temperature and humidity), soil moisture sensors, and actuators like BLDC motor fans, light bulbs, and water pumps. Arduino Uno microcontrollers are employed to monitor and control the greenhouse's environmental conditions. Based on real-time data from sensors, the microcontrollers trigger the actuators to maintain ideal levels of temperature, humidity, and soil moisture for optimal plant growth.



21: 2023/08941. 22: 2023/09/21. 43: 2024/03/22

51: G01N

71: VISHWAKARMA INSTITUTE OF TECHNOLOGY

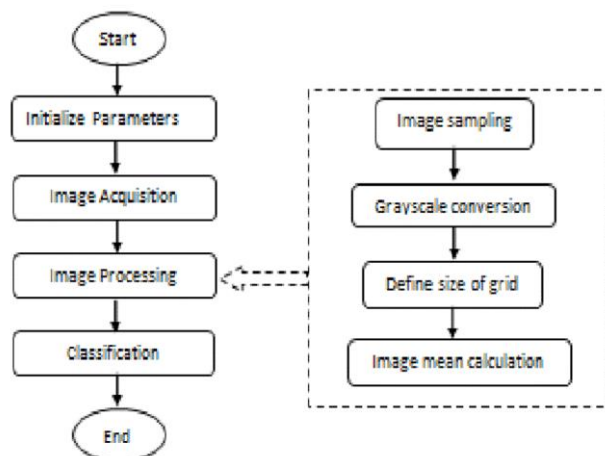
72: JALNEKAR, Rajesh M., KULKARNI, Mukund M., NARULE, Yogita, KHARAT, Manasi, KHATAL, Shruti, KHATKE, Ayush, KHARDEKAR, Sujal, KHARAT, Dattatray

#### **54: A SYSTEM AND METHOD FOR AUTOMATED FRUIT RIPENESS DETECTION USING IMAGE PROCESSING**

00: -

The present invention related a system and method for automated fruit ripeness detection using image

processing. Presents a solution to automate fruit quality assessment. By employing image processing and machine learning techniques, the system accurately detects fruit ripeness based on surface characteristics and spots. The invention aims to streamline the assessment process, eliminate manual inspection errors, and ensure only high-quality, ripe fruits reach the market. Additionally, it benefits fruit-related industries by enhancing their production processes through the use of ripe fruits, leading to improved product quality and reduced waste. The automation and accuracy of this system make it a valuable tool for both farmers and fruit industries, offering time-saving benefits and increased productivity.



21: 2023/08942. 22: 2023/09/21. 43: 2024/04/03  
51: G06N

71: VISHWAKARMA INSTITUTE OF TECHNOLOGY

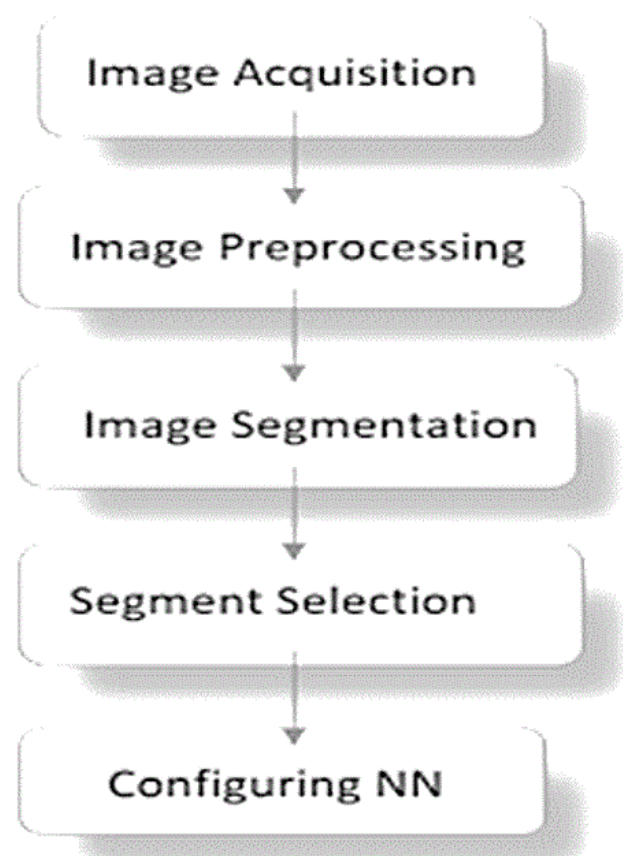
72: MAHAJAN, Chandrashekhar M., DESHPANDE, Rupali S., FATTEPURKAR, Gopika, KATKAR, Kartik, KAULWAR, Mayuresh, KAURASE, Astik, MAGAR, Kaushik, KAWTIKWAR, Yash

#### **54: A SYSTEM AND METHOD FOR DISEASE DETECTION ON PLANT LEAVES USING A CONVOLUTIONAL NEURAL NETWORK**

00: -

The present invention relates to a system and method for disease detection on plant leaves using a convolutional neural network. The Convolutional Neural Network (CNN) model can identify diseases on the leaves of plants. So, by using existing tools like TensorFlow and Keras to solve this real-world problem, chosen to implement a neural network using TensorFlow to detect different diseases on

plant leaves. Hence, the Plant Village data set from Kaggle to build a CNN model using the TensorFlow framework. After this, train this CNN model on the Plant Village data set. After that, save the model in the ".h5" file and use this pretrained model to detect diseases on the leaves. The invention aims to provide a cost-effective and accessible solution for farmers to detect plant diseases, ultimately improving agricultural practices and crop yields.



21: 2023/08943. 22: 2023/09/21. 43: 2024/03/22  
51: A01G

71: VISHWAKARMA INSTITUTE OF TECHNOLOGY

72: MAHAJAN, Chandrashekhar M., KULKARNI, Mukund M., JANOKAR, Sagar G., KORPADE, Shruti Kishor, KOTHEKAR, Piyush Chandrashekhar, KORADE, Prajwal Arun, KORDE, Atharva Shrikant, KOTWAL, Nagnath Pandhari

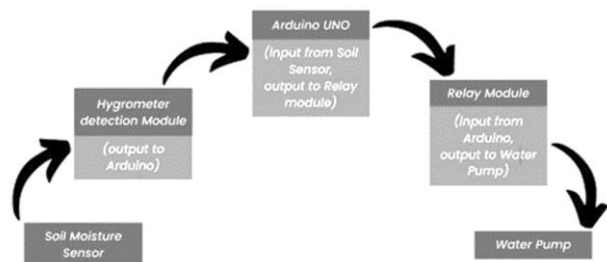
#### **54: AN AUTOMATED PLANT WATERING SYSTEM**

00: -

The present invention related an automated plant watering system. The invention designed to automate the process of watering plants based on



their moisture needs. Utilizing a moisture sensor and an Arduino microcontroller, the system ensures efficient irrigation, conserving water resources while improving agricultural productivity. By detecting soil moisture levels and activating the water pump only when required, the invention minimizes water wastage and labour-intensive tasks, making it a valuable solution for sustainable and smart farming practices.



21: 2023/08944. 22: 2023/09/21. 43: 2024/03/22  
51: H04L

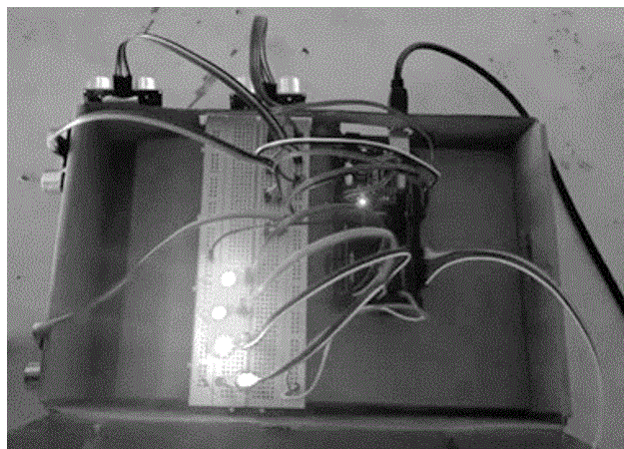
71: VISHWAKARMA INSTITUTE OF TECHNOLOGY

72: MAHAJAN, Chandrashekhar M., WAIKAR, Rahul, MANDE, Smita S., MORE, Sanchay, MORE, Vaishali, MORE, Parth, MORE, Sanket, MORE, Shubham

#### **54: AN AUTOMATED TRAFFIC MANAGEMENT SYSTEM**

00: -

The present invention related an automated traffic management system. Automated Traffic Management System with Priority Based Road Clearance for Emergency Services. The system employs ultrasonic sensors to detect traffic density and adjust signal timings accordingly, reducing congestion on busy roads. Additionally, RFID technology is utilized to prioritize the passage of emergency vehicles at traffic signals, ensuring swift and unhindered response during critical situations. This innovative solution aims to enhance traffic flow, mitigate pollution, and improve emergency service efficiency, offering a promising approach to address urban traffic challenges.



21: 2023/08945. 22: 2023/09/21. 43: 2024/04/03  
51: G06T

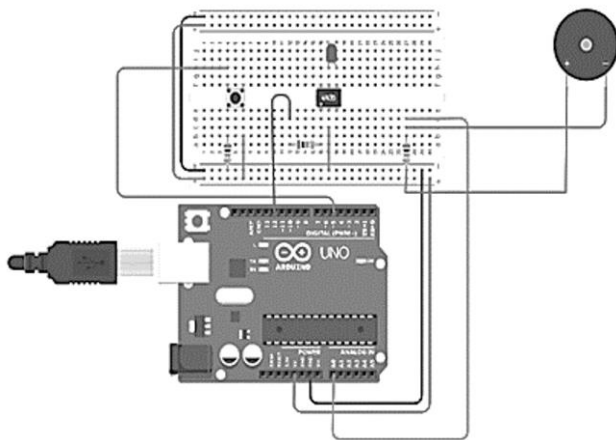
71: VISHWAKARMA INSTITUTE OF TECHNOLOGY

72: MAHAJAN, Chandrashekhar M., NARULE, Yogita, JOSHI, Kalpesh V., MASKE, Pavan Rameshwar, MATALE, Aditya Rajendra, MATHAPATI, Shreyan Avinash, MASLEKAR, Aditya Shrikrishna, MATHE, Vijay Sanjay

#### **54: A MULTI SENSORY HIGH SPEED PHOTOGRAPHY TRIGGER SYSTEM**

00: -

The present invention relates to a multi-sensory high speed photography trigger system. System is designed to automate and enhance high-speed photography. By integrating advanced sensing technologies, including sound and movement detection, with an Arduino-based control system, opto-isolator and some other electrical components., this invention enables the precise capture of ultra-rapid events that are imperceptible to the unaided human eye. The system's automated triggering process significantly improves success rates and reduces response times, making it an invaluable tool for scientific, industrial, and creative applications.



21: 2023/08946. 22: 2023/09/21. 43: 2024/03/22  
51: G06Q

71: VISHWAKARMA INSTITUTE OF TECHNOLOGY

72: MARATHE, Ashutosh, CHAVAN, Puja A., DESAI, Siddhesh, DHAMNE, Shravani, DHARMALE, Raj, DHARME, Kaustubh, GORE, Om  
**54: AN ONLINE CENSUS SURVEY SYSTEM FOR EFFICIENT POPULATION COUNTING AND DATA COLLECTION**

00: -

The present invention relates to an online census survey system for efficient population counting and data collection. The Census will give brief information about population data for the whole nation. It is highly challenging to count the population in a big country where the population of the states is the same as the population of other nations in a given amount of time and money. The Traditional census process is very time-consuming and requires a large amount of manpower as we manually count the population. There are a number of reasons why this census will be crucial. This process takes a long time and requires a lot of human work. So, users have developed an online, cross-platform Jan for the official census survey of the population. Janगणना is an online application where people can register their names and give all the information about their family members. It helps to complete the census process in less time with less manpower.



21: 2023/08947. 22: 2023/09/21. 43: 2024/03/22  
51: G06N

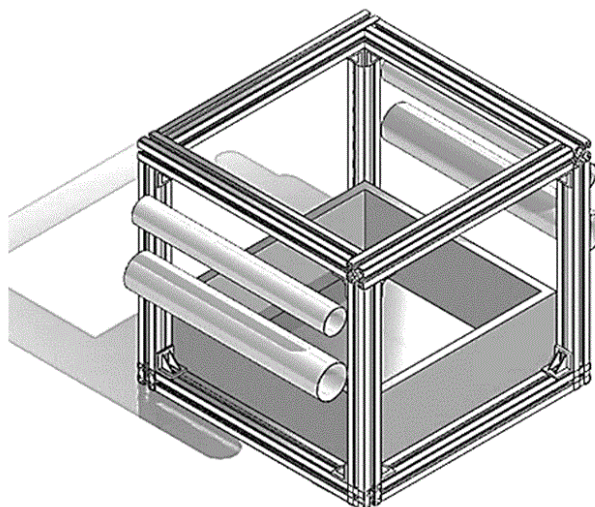
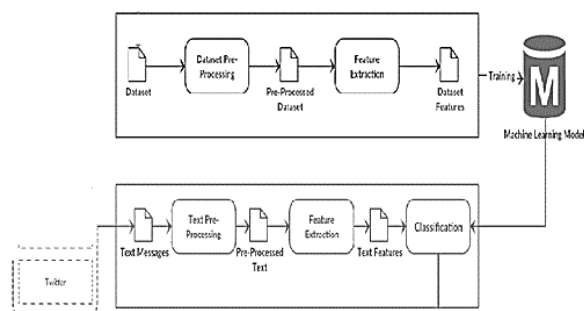
71: VISHWAKARMA INSTITUTE OF TECHNOLOGY

72: JALNEKAR, Rajesh, LAMBOR, Shilpa, CHAVAN, Puja, PHADKE, Mrunmayee, PATIL, Siddhi, PATIL, Samved, PETHKAR, Vaishnavi  
**54: A MACHINE LEARNING BASED SYSTEM FOR CYBER BULLYING DETECTION AND PREVENTION ON SOCIAL PLATFORMS**

00: -

The present invention is related to a machine learning system for cyberbullying detection and prevention on social platforms. As people spend more time utilising technology that keeps them constantly connected to other people, cyberbullying is becoming increasingly common. Cyberbullies can communicate with their victims in a variety of ways, including text messaging, social networking websites, and instant messaging through the internet. Cyberbullying is a significant issue that, like traditional bullying, may make the victim feel inadequate and unduly self-conscious and even lead to suicidal thoughts. Fake news and fake messages are a huge threat to the community since they can lead to theft and commotion, thus calling for the need for cybersecurity. It is paramount to detect and ensure safety across social platforms. This invention proposes an approach to detecting cyberbullying. Out of the three classifiers used decision tree (77.54%), Nave Bayes (73.32%), and SVM (82.12%), SVM was more accurate than the others.





21: 2023/08948. 22: 2023/09/21. 43: 2024/03/25

51: A01G

71: VISHWAKARMA INSTITUTE OF TECHNOLOGY

72: HULWAN, Dattatray, KOMBLE, Sachin, UMBRAJKAR, Devendra, CHAVAN, Pradnya, DESHMUKH, Sakshi, DEVADKAR, Aniket, KAMALSKAR, Divya, SHIRBAVIKAR, Ketki

**54: AN IOT BASED NUTRIENT FILM TECHNIQUE HYDROPONICS SYSTEM FOR MICRO FARMING ROBOT**

00: -

The present invention is related to an IOT based nutrient film technique hydroponics system for micro farming robots. A farming robot functions to help and maintain plants in a small indoor or outdoor area.

The proposed model is mainly differentiated into two parts a smart CNC controlled, IOT based farming and NFT hydroponics, which can grow veggies only with the help of water and water-soluble nutrients. It is equipped with different sensors for keeping track of environmental parameters on which farming is dependent and is integrated with multiple sensors that monitor the moisture level of the soil, the required water level for pumping, and favorable temperature conditions. The model consists of a high-level Cartesian architecture that enables precise movement when carrying out commands for seed sowing, watering plants, and monitoring the manuring of fertilizers. The CNC mechanism performs functions like seed sowing, watering, and manuring the plants that can be controlled using an application.

21: 2023/08949. 22: 2023/09/21. 43: 2024/03/25

51: A61K

71: INNER MONGOLIA ACADEMY OF AGRICULTURAL AND ANIMAL HUSBANDRY SCIENCES, INNER MONGOLIA AGRICULTURAL UNIVERSITY

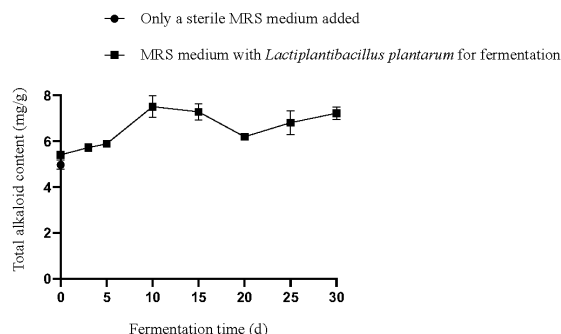
72: SU, Shaofeng, WU, Haiqing, LUO, Jie, BO, Suling, HAI, Xuran, HUANGFU, Jiuru, GENG, Aopan, ZHANG, Xin, LV, You, ZHU, Chunxia, GUO, Dongdong, HUANG, Yao, ZHAO, Yue, XU, Guoxin  
33: CN 31: 2023107699035 32: 2023-06-27

**54: USE OF LACTIPLANTIBACILLUS PLANTARUM IN INCREASING ALKALOID AND/OR POLYSACCHARIDE IN LEONURUS JAPONICUS HOUTT**

00: -

The present invention relates to the technical field of traditional Chinese medicine fermentation, and provides use of Lactiplantibacillus plantarum in increasing alkaloid and/or polysaccharide in Leonurus japonicus Houtt. According to the present invention, the Leonurus japonicus Houtt is fermented by Lactiplantibacillus plantarum, so that the alkaloid content and the polysaccharide content of the fermented Leonurus japonicus Houtt averagely increases by 28.24% and 58.50% respectively compared with those of a non-fermented group, and the increase is extremely remarkable ( $P < 0.01$ ). When the alkaloid content reaches the maximum value, the alkaloid content averagely increases by 44.51% compared with that of a non-fermented group, and when the polysaccharide content reaches the maximum value, the polysaccharide content averagely increases by 100.03% compared with that of a non-fermented group. The results show

that the content of some active ingredients in the *Leonurus japonicus* Houtt before and after fermentation is remarkably improved, which helps to improve the efficacy.



21: 2023/08950. 22: 2023/09/21. 43: 2024/03/25  
51: C11D

71: Mingyu LI

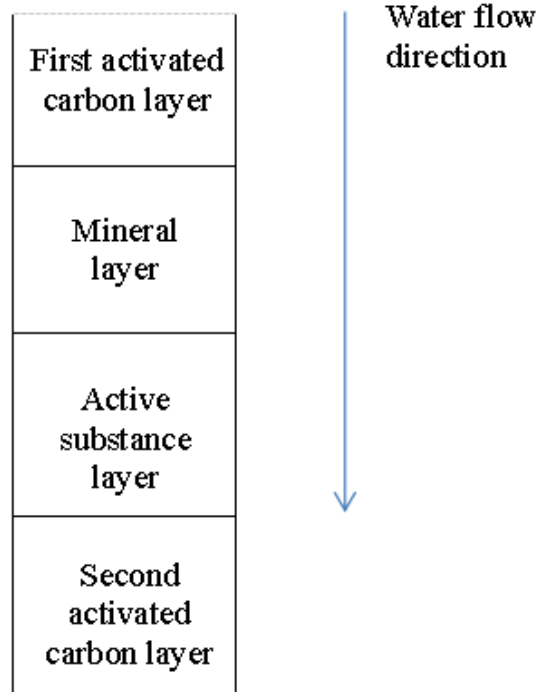
72: Mingyu LI

33: CN 31: 2023108928385 32: 2023-07-20

#### **54: A LIQUID FAR-INFRARED ANION NUTRIENT COMPOSITION AND PREPARATION METHOD THEREOF**

00: -

The present invention relates to the technical field of composite technology, and particularly relates to a liquid far-infrared anion nutrient composition and preparation method thereof. The present invention provides a liquid far-infrared anion nutrient composition, which consists of components in the following mass fractions: honey: 20-30 parts; ginseng: 3-7 parts; ginseng leaves: 3-7 parts; radix astragali: 16-22 parts; rhizoma atractylodis macrocephalae: 5-9 parts; Chinese angelica: 4-8 parts; Chinese date: 6-10 parts; Cordyceps: 8-12 parts; radix rehmanniae preparata: 3-7 parts; activated water: 50-70 parts. The nutrient composition of the present invention comprises abundant nutritional substances, far-infrared complement, anions, and other substances. The said nutrient composition can significantly enhance human's immune system and alleviate fatigue. Additionally, all the components are traditional Chinese medicinal materials, characterized by their healthy nature and are devoid of toxic side effects. The effect is remarkably superior to existing health products made with existing technologies.



21: 2023/08951. 22: 2023/09/21. 43: 2024/03/25  
51: A61K

71: XINJIANG ACADEMY OF AGRICULTURAL RECLAMATION SCIENCES, CHINA JILIANG UNIVERSITY

72: TANG, Hong, ZHANG, Bin, GUAN, Feng, YANG, Yang, ZHANG, Yiyuan, DAI, Rong

#### **54: A METHOD FOR PREPARING SHEEP SKIN FIBROBLAST CELLS**

00: -

The present invention relates to the technical field of cell culture. The present invention provides a method for preparing sheep skin fibroblasts, which includes the following steps: (1) digesting for 120~150min with type I collagenase after digesting in vitro sheep skin tissues for 60~80min with trypsin, centrifuging, and taking the precipitate to obtain digested cells; (2) inoculating the digested cells into a culture medium, culturing until the cell confluence degree is 60~70%, digesting with trypsin for 4~6min, and centrifuging to obtain cells purified for the first time; (3) inoculating the cells purified for the first time into a culture medium, culturing until the cell confluence reaches 85~95%; (4) carrying out passage purification until the purity of the sheep skin fibroblasts is 100%. The purity of the sheep fibroblast obtained by the preparation method of the

present invention is high and can reach 100%, and stable passage can be realized.



21: 2023/08959. 22: 2023/09/21. 43: 2024/03/25  
51: B63B; F03B

71: SUSTAINABLE MARINE ENERGY LIMITED

72: HAYMAN, Jason, BURDEN, Christopher

33: GB 31: 2102570.5 32: 2021-02-23

33: GB 31: 2104504.2 32: 2021-03-30

#### **54: DEPLOYABLE MARINE SENSOR SYSTEM**

00: -

Deployable system of one or more sensors (116) for incorporation on a marine installation (100). The sensor system comprises a sensor mount (114) securable to the marine installation (100) and a sensor (116) mounted on the sensor mount (114).

The sensor mount (114) has a raised configuration and a deployed configuration, such that the sensor (116) is arranged to be held rigidly in place below a hull (102) of the marine installation when the sensor mount (114) is in the deployed configuration. The sensor mount (114) is arranged to rigidly hold the sensor (116) in a higher position in the raised configuration than in the deployed configuration. The sensor system is configured to monitor local wildlife and the interaction of the wildlife with the marine installation (100).

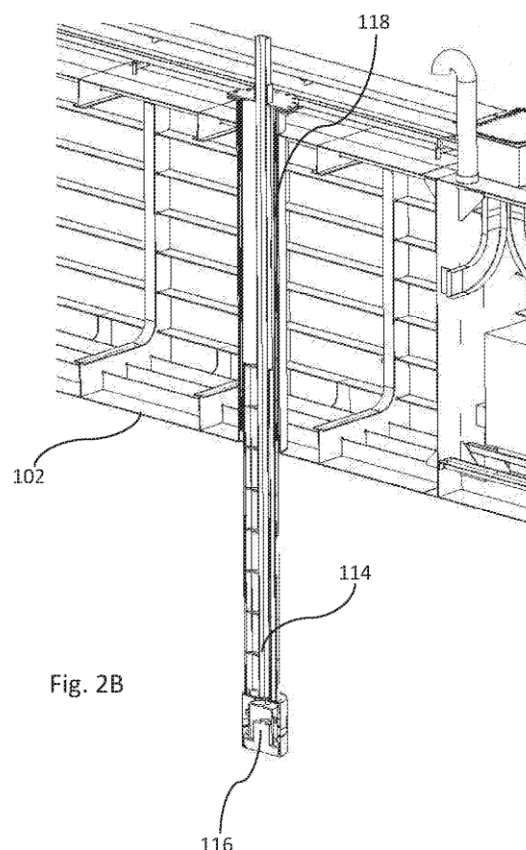


Fig. 2B

21: 2023/08973. 22: 2023/09/22. 43: 2024/03/25  
51: A01G

71: Fujian Academy of Forestry, Forestry Science and Technology Promotion Center of Zhenghe  
72: Huang Yong, Zhu Xiangjing, Li Zhizhen, Xie Yiqing, Fan Miaobin

33: CN 31: 2023110241446 32: 2023-08-15

#### **54: ROOT GRAFTING PROPAGATION METHOD FOR JUGLANS MANDSHURICA**

00: -

The present invention relates to the technical field of Juglans regia grafting, and particularly relates to a root grafting propagation method for Juglans mandshurica. The method specifically includes the following steps: (1) collecting a scion from early December of a first year to early January of a second year, collecting a rootstock before winter frost, and conducting primary sand storage on the collected scion and rootstock; (2) dipping the scion in wax before grafting, and then conducting low-temperature treatment; (3) grafting the scion onto the rootstock through a cleft grafting method from

late January to late March, obtaining a rootstock-scion combination, and conducting secondary sand storage on the rootstock-scion combination; (4) conducting warming treatment and transplantation on the rootstock-scion combination; and (5) applying a fertilizer when a sprout of the scion of the rootstock-scion combination grows no less than 12 cm, and then applying a compound fertilizer once a month. After decades of experiments of the present invention, the results indicate that the method of the present invention has a seedling survival rate reaching as high as 75 percent, and the method of the present invention is simple, requires no removal of unwanted sprouts, and can greatly reduce labor cost.

21: 2023/08976. 22: 2023/09/22. 43: 2024/03/25  
51: A01G

71: Shandong Institute of Pomology

72: TIAN Shoule, SUN Xiaoli, SHEN Guangning, WANG Jinping

#### **54: METHOD FOR GRAFTING BIG TREES FOR RAPID CROWN FORMATION**

00: -

The invention discloses a method for grafting big trees for rapid crown formation, and belongs to the field of forest and fruit tree cultivation. The method comprise that following step: selecting 2-3 main branches on a rootstock, cutting off the main branch at the vertical height of 1.3-1.6m from the ground, and grafting the scion on the main branch stump in a double-layer way; The double-layer grafting comprises that the first layer is grafted on the cross section of the main branch stump, and the second layer is grafted on the middle of the main branch stump. The tree grafting method provided by the invention has the advantages of low grafting position, high grafting efficiency, short tree shape and easy management; after grafting, the crown is formed quickly, and the inner cavity is full and full, which can achieve three-dimensional results; The grafted trees by this method have strong early fruiting and high yield, and can realize rapid yield increase.

21: 2023/08979. 22: 2023/09/22. 43: 2024/03/25  
51: E01C

71: CCCC FIRST HIGHWAY ENGINEERING GROUP CO., LTD, THIRD ENGINEERING CO.,LTD

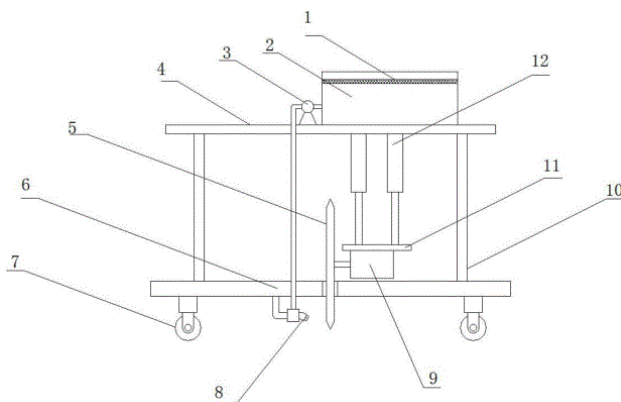
OF CCCC FIRST HIGHWAY ENGINEERING GROUP

72: Kai WANG, Zheng FU, Wei HAN, Yanwei WU, Fei WANG, Ruiqing ZHAO, Zhongyang SU, Xiaoguang ZHAO, Jiulong LI

#### **54: A ROAD CUTTING MECHANISM**

00: -

The present invention discloses a road surface cutting mechanism, including a roof, on which a sink and a water pump are arranged, the sink is connected with the water pump through a water pipe, and the water pipe extends to the water storage box, a nozzle is arranged on one side of the water storage box, and the lower part of the roof is connected with the bottom plate through a supporting rod, the water storage box is fixed at the bottom of the bottom plate through an L-shaped bracket, a cylinder is arranged at the lower part of the roof, an installation plate is arranged at the output end of the cylinder, a motor is arranged at the lower part of the installation plate, a cutting blade is arranged at the output end of the motor, and a cutting groove is arranged at the bottom plate corresponding to the cutting blade. The present invention adopts the above-mentioned road surface cutting mechanism, which is simple in operation, reduces the amount of dust and protects the environment.



21: 2023/09023. 22: 2023/09/26. 43: 2024/03/26  
51: B27K

71: XINJIANG CAREER TECHNICAL COLLEGE  
72: YUN, Liang, LI, Guofeng, WANG, Mingquan, LIU, Kainan, LI, Shuai

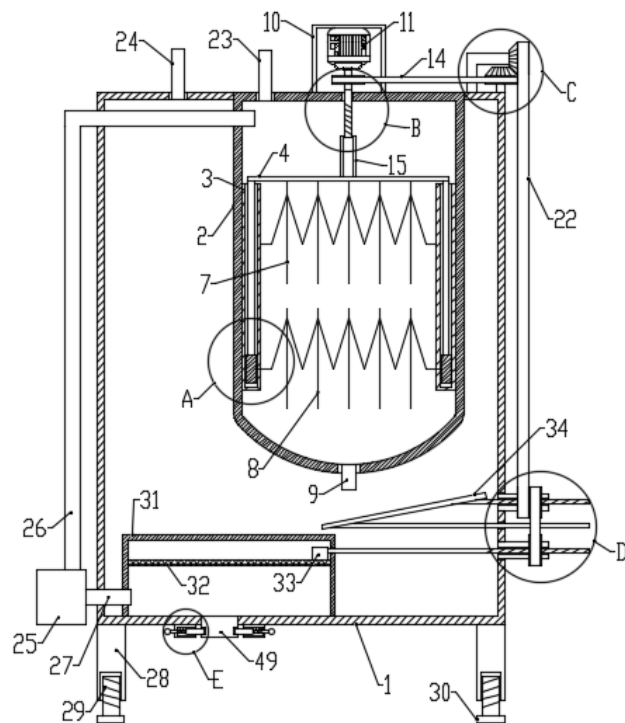
33: CN 31: 2023107350908 32: 2023-06-16

#### **54: DISTILLATION DEVICE AND METHOD FOR COAL TAR HYDROGENATION PROCESS**

00: -



The present invention relates to the technical field of coal tar deep processing, and provides a distillation device and method for a coal tar hydrogenation process. The distillation device comprises a housing, wherein a reaction kettle is fixedly connected inside the housing through a screw, by arranging structures such as a jacking screw rod and a cleaning block, a servo motor is started, an output shaft of the servo motor drives a vertical rod to rotate, a lower auxiliary rod is driven by a sliding block and the like to move up and down, and bubbles generated during distillation are driven to move up, so that the distillation efficiency is improved; a second rotating sleeve is driven by a third driven wheel to rotate, the jacking screw rod is driven to reciprocate left and right, the jacking screw rod drives the cleaning block to reciprocate left and right to clean coal tar coked on a surface of a filter screen, and a liquid pump is prevented from being blocked and damaged when used, so that the effect of preventing the liquid pump from being blocked is achieved. With the foregoing technical solutions, the problems in the conventional technology that the liquid pump is easily blocked, the usage of a heating plate is low, and a horizontal state cannot be always maintained are solved.



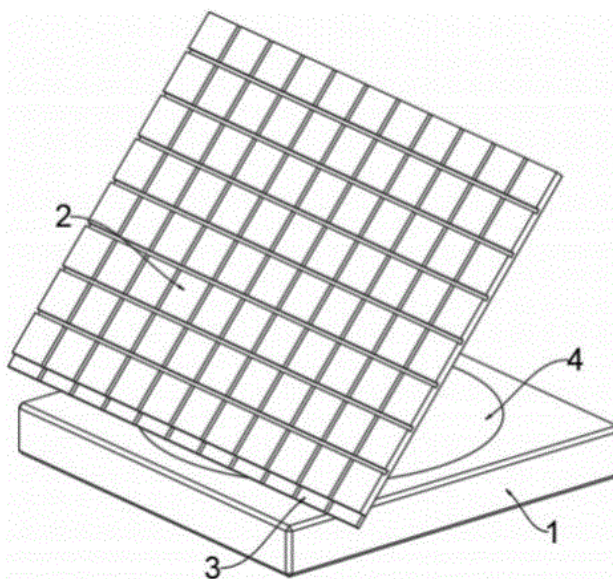
21: 2023/09024. 22: 2023/09/26. 43: 2024/03/26

51: H02S  
71: Chuzhou University  
72: Shiya HU

#### **54: AN ADAPTIVE ADJUSTMENT DEVICE FOR PHOTOVOLTAIC SOLAR PANELS AND ITS REALIZATION METHOD**

00: -

The present invention discloses an adaptive adjustment device for photovoltaic solar panels and its realization method, which relates to the technical field of solar panel adjustment device. It solves the problem that the solar panel cannot be rotated or angle adjusted after installation, and cannot be well adapted to the change of sunlight irradiation angle to adjust, and cannot fully convert and utilize solar energy. an adaptive adjustment device for photovoltaic solar panels and its realization method, including a base, a solar panel is arranged above the base, a photosensitive element is arranged on the end face of the bottom end of the solar panel, a rotating adjustment mechanism is arranged in the middle of the base, which includes a rotating disk and a storage battery. The present invention can adjust the rotation and tilt angle of the solar panel according to the change of the sunlight angle by setting the photosensitive element, the rotation adjustment mechanism and the angle adjustment mechanism, so that the solar panel can adapt to the change of the sunlight angle, and can fully absorb and transform the solar energy.



21: 2023/09025. 22: 2023/09/26. 43: 2024/03/26



51: A01G

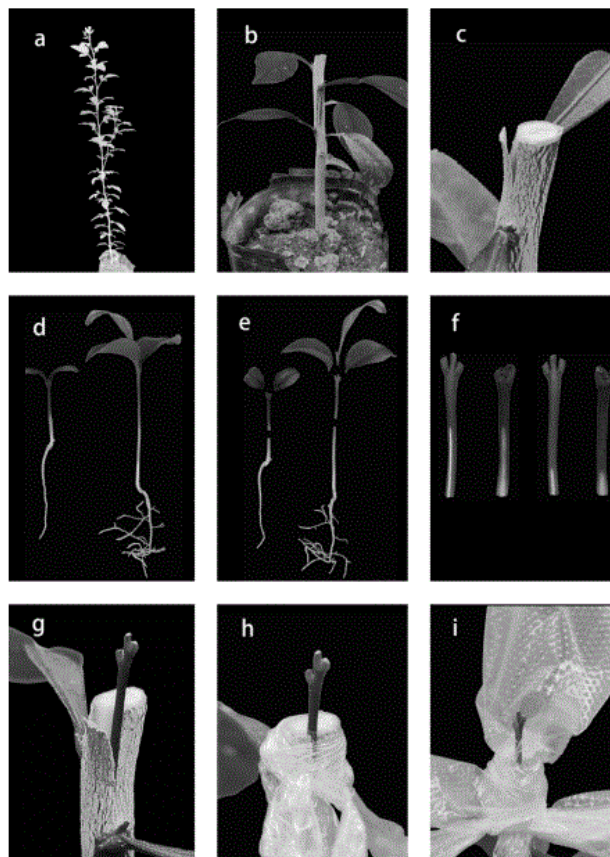
71: Citrus Research Institute of Zhejiang Province

72: HUANG Xiu, KE Fuzhi, NIE Zhenpeng, SUN Lifang, WANG Luoyun

**54: NEW GRAFTING METHOD OF CITRUS SEEDLING FOR BREEDING**

00: -

The invention disclose a new method for grafting citrus seedling for breeding, belonging to that technical field of citrus breeding. The new grafting method of citrus seedling for breeding includes the following steps: cultivating citrus seeds harvested in autumn for 60+/-10 days, cutting the seedlings obtained by cultivation from 2+/-0.2 cm below axillary bud branches as scions, and continuing to cultivate the seedlings after cutting the scions to obtain backup seedlings; grafting the scion on a rootstock for culture to obtain a survival grafted seedling; If that backup seedling die in the process of culture, the backup seedling is cut as a scion from 2+/-0.2 cm below the axillary bud branch, and is grafted on a rootstock for culture to obtain a survival grafted seedling. The new grafting method of citrus seedlings for breeding provided by the invention greatly improves the grafting survival rate and breeding efficiency of citrus seedlings while shortening the citrus breeding cycle, and is of great significance to the actual citrus breeding work.



21: 2023/09027. 22: 2023/09/26. 43: 2024/03/26

51: F24S

71: Henan Agricultural University, Henan Jiuyi Environmental Protection Technology Co., Ltd.

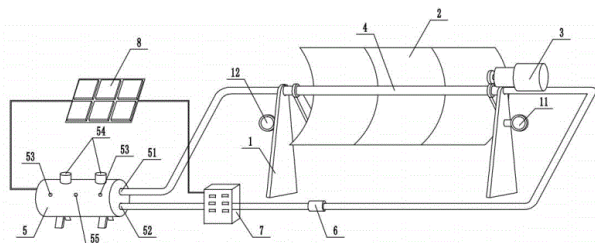
72: LIU, Shengyong, WANG, Zhenzhong, LIU, Chunyu, KONG, Lingchen, QING, Chunyao, GAO, Linchao, ZHAI, Shunca, HUANG, Li, TAO, Hongge, REN, Changzhong, SUO, Feng, JIA, Zhuoya, ZHAO, Dengke, LIU, Tingting, ZHEN, Zi'ang

**54: NOVEL PHOTOVOLTAIC AND TROUGH-TYPE SOLAR ENERGY COMPLEMENTARY ASPHALT HEATING SYSTEM**

00: -

The present invention discloses a novel photovoltaic and trough-type solar energy complementary asphalt heating system in the technical field of photovoltaic heating apparatuses, including a scaffold; an anemometer fixedly arranged on the scaffold; a condensing reflector rotatably connected to the scaffold; a driving apparatus fixedly arranged on the scaffold and transmissively connected to the condensing reflector; a vacuum glass sleeve fixedly arranged on the scaffold and arranged corresponding to the condensing reflector; an asphalt heating tank with a heat conductive pipe

inside, the heat conductive pipe having an inlet and an outlet; and a control system communicatively connected to the anemometer and the driving apparatus.



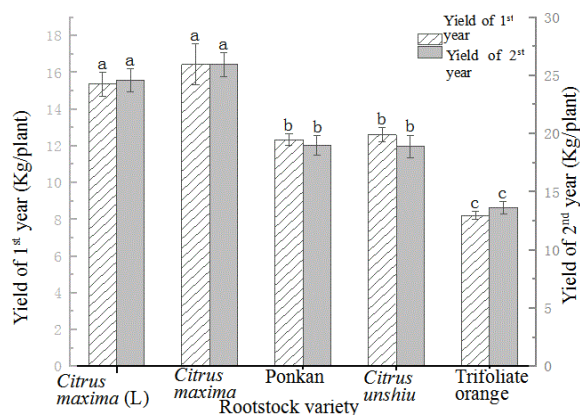
21: 2023/09029. 22: 2023/09/26. 43: 2024/03/26  
51: A01G

71: Citrus Research Institute of Zhejiang Province  
72: KE Fuzhi, HUANG Xiu, SUN Lifang, NIE Zhenpeng, WANG Luoyun

#### **54: PLANTING METHOD FOR IMPROVING FRUIT QUALITY OF COCK-TAIL GRAPEFRUIT**

00: -

The invention discloses a planting method for improving the fruit quality of cock-tail grapefruit, belonging to the technical field of citrus cultivation. According to the invention, by grafting the grapevine scion onto the rootstock of an adult tree, it is unnecessary to go through the childhood of seedling growth, and the grapevine can be put into production in the second year, with high yield in the third year, so that the rapid production can be realized, the variety structure can be reasonably adjusted at the moment of rapid change of citrus varieties, and at the same time, the fruit yield and quality of the grapevine can be improved. The rootstock-spike combination for improving the fruit quality of the cock-tail grapefruit can be quickly put into production, improve the fruit quality and increase the economic benefits of orange farmers without going through the process of seedling growth in childhood.



21: 2023/09031. 22: 2023/09/26. 43: 2024/03/26  
51: G01N

71: THE CIVIL ENGINEERING GROUP  
CORPORATION OF CHINA CONSTRUCTION  
SECOND ENGINEERING BUREAU LTD., CHINA  
CONSTRUCTION SECOND ENGINEERING  
BUREAU LTD., Hohai University

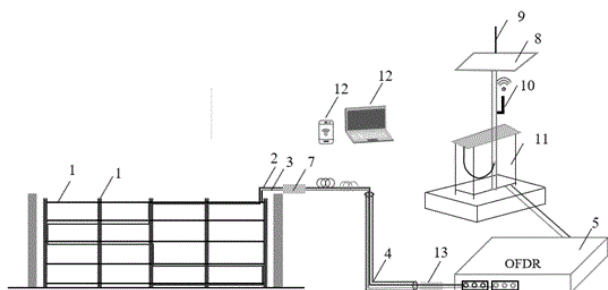
72: HU Xiaochuan, YAO Zaifeng, LIAO Manping,  
DING Xuezheng, LIU Hongjun, GAO Lei

#### **54: CONCRETE TEMPERATURE-STRAIN INTELLIGENT MONITORING SYSTEM AND MONITORING METHOD BASED ON OFDR OPTICAL FIBER SENSING**

00: -

The invention discloses a concrete temperature-strain intelligent monitoring system and a monitoring method based on OFDR optical fiber sensing. The monitoring system includes a steel skeleton, a monitoring component, an optical cable protection component, a fiber grating wireless demodulator, a solar electromagnetic plate, a lightning rod, a wireless transmitter and a client side. According to the invention, the auxiliary steel skeleton is arranged in the concrete to be monitored, and the dense distributed strain sensing optical cables and the dense distributed temperature monitoring optical cables are arranged along the steel bars, so that the high-precision monitoring of the temperature-strain in the concrete is realized, and the temperature and strain data monitored by the fiber grating wireless demodulator are sent to the client through a wireless transmitter by combining solar power supply and wireless transmission technologies. By arranging the OFDR optical fiber sensing monitoring system inside the concrete, the invention realizes the accurate and intelligent sensing of the concrete temperature-strain field, and solves the technical problems of

insufficient monitoring accuracy and time-consuming and labor-consuming by the conventional monitoring means.



21: 2023/09032. 22: 2023/09/26. 43: 2024/03/26

51: B21F; C23C

71: Thermo Plastic Wire Coatings (Pty) Ltd.

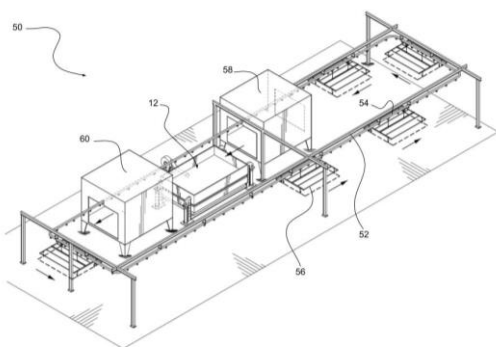
72: VILJOEN, Martin Dawid

33: ZA 31: 2022/10592 32: 2022-09-26

#### **54: WIRE COATING DEVICE, METHOD, AND SYSTEM**

00: -

A wire coating device having a vertically displaceable bath being partitioned into a powder receptacle and a lower blower compartment by a diffuser, the bath being operable to be raised from a lower position wherein the bath is clear of an overhead horizontally oriented wire panel, to a raised position wherein the overhead wire panel is received by the bath.



21: 2023/09033. 22: 2023/09/26. 43: 2024/03/26

51: A63H

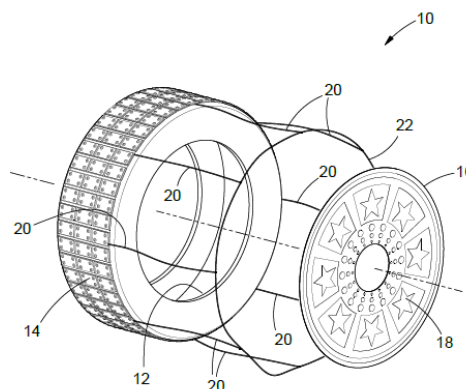
71: HUGHES, WILLIAM BRANDON

72: HUGHES, WILLIAM BRANDON

#### **54: STRETCHABLE RUBBER SLEEVE FOR TOY VEHICLES**

00: -

The invention pertains to a stretchable rubber sleeve tailored for toy vehicle wheels, notably for children's bikes and other similar ride-on toys. Addressing the aesthetics and performance of toy vehicle wheels, this rubber sleeve is designed to be effortlessly pulled over and securely fit onto the existing plastic wheel of a toy. Comprising two distinct layers, the outer layer features a threaded design, enhancing traction and appearance, while the inner layer remains thread-free, ensuring a smooth fit over the plastic wheel. Unique to this invention is the inclusion of a side wall with a printable canvas section, offering customization options through designs, logos, or graphics. Additionally, to maintain the sleeve's secure position on the wheel, an adjustable tightening rope is integrated at the canvas's center. With this invention, toy vehicle wheels not only benefit from enhanced traction and durability but also gain a personalized appearance, making the toy wheels reminiscent of real vehicle tires.



21: 2023/09038. 22: 2023/09/26. 43: 2024/03/26

51: E04G

71: WACO AFRICA (PTY) LIMITED t/a FORMSCAFF

72: ESTERHUYSEN, Eric Carl, POEWELS, Klaas

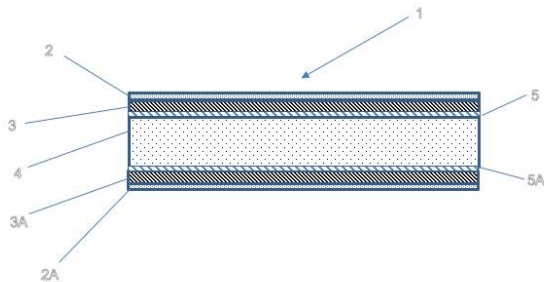
33: ZA 31: 2022/10591 32: 2022-09-26

#### **54: COMPOSITE STRUCTURAL BOARD**

00: -

A composite structural board for predetermined structural applications and assignments comprising a substantially planar, laminated body, having a damage resistant outer skin, a reinforcing layer, located below the outer skin, and a core. The composite structural board further having suitable mechanical and physical properties selected from

the group consisting suitable water resistance, humidity resistance, mass (density), gouge resistance, nail withdrawal resistance, modulus of rupture (MOR), modulus of elasticity (MOE), compressive strength resistance, abrasion resistance, impact resistance, fatigue resistance, workability, reversibility, degradation resistance, thermal properties, including thermal conductivity and thermal expansion coefficient, and reusability, to provide optimum performance capabilities for the predetermined structural applications and assignments.



21: 2023/09043. 22: 2023/09/26. 43: 2024/03/26  
51: G01N

71: UNIVERSITY OF SCIENCE AND TECHNOLOGY BEIJING, XILIN GOL LEAGUE SHANJIN BAIYINHUBU MINING CO., LTD.

72: LI, Teng, ZHU, Zhengkun, FU, Jianxin

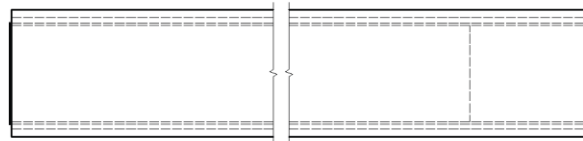
33: CN 31: 2022112313143 32: 2022-10-09

#### **54: IN-SITU SAMPLING DEVICE FOR BACKFILL SLURRY**

00: -

The invention provides an in-situ sampling device for backfill slurry and belongs to the field of mining technology. The in-situ sampling device for backfill slurry includes: a sampling body, the sampling body comprising: a sampling box having no upper and lower surfaces and configured to contain the backfill slurry; an outer lining having three sides connected vertically end to end, wherein a side facing the inside of a stope is closed, and a side facing the outside of the stope has an opening by which the outer lining is fitted over an outer wall of the sampling box; extrusion fixing mechanisms, each extrusion fixing mechanism comprising an outer cover plate and a cover plate lining, wherein the cover plate linings are configured to cover the upper and lower surfaces of the sampling box and to separate the sampling box from the backfill slurry, and the outer cover plates cover the cover plate linings; and a support

mechanism configured to support and fix the sampling body. The present invention does not involve an external force, thereby ensuring the original stress state of the slurry to a certain extent. The slurry is closer to the actual engineering state and has good representativeness. Each component of the device adopts a double-layer separated structure, which solves the problem of adhesion in the sampling box or adhesion to backfill, for example, slurry.



21: 2023/09051. 22: 2023/09/26. 43: 2024/03/26

51: G21C

71: FRAMATOME

72: DUPUIS, Alexandre, SZCZUREK, Eddy, LALLIER, Mickael

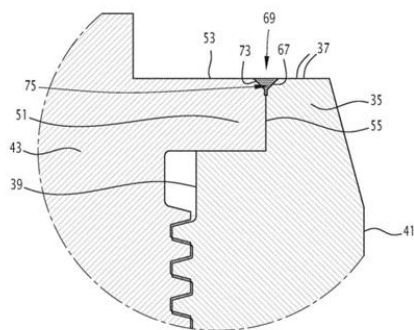
33: FR 31: 2103357 32: 2021-03-31

#### **54: METHOD FOR MAINTAINING A NUCLEAR REACTOR**

00: -

The maintenance method is applied to a nuclear reactor (1) having at least one control assembly (17) for controlling a rod cluster assembly (13) comprising a casing (21) for receiving a lifting mechanism (23) and a sheath (25) for receiving the control rod (15), a first lip (61) at an upper casing end (35) and a second lip (63) at a sheath lower end (43) forming an omega seal (65). The maintenance method comprises the following steps: - removing the first and second lips (61, 63); - carrying out at least one maintenance operation on the control assembly (17); - creating a welding surface (67) by machining said upper casing end (35); - creating a leak-tight welded connection (69) by welding the welding surface (67) and a complementary welding surface (73) provided at the lower end of the sheath or of a replacement sheath (71).





21: 2023/09073. 22: 2023/09/27. 43: 2024/03/27

51: G06Q

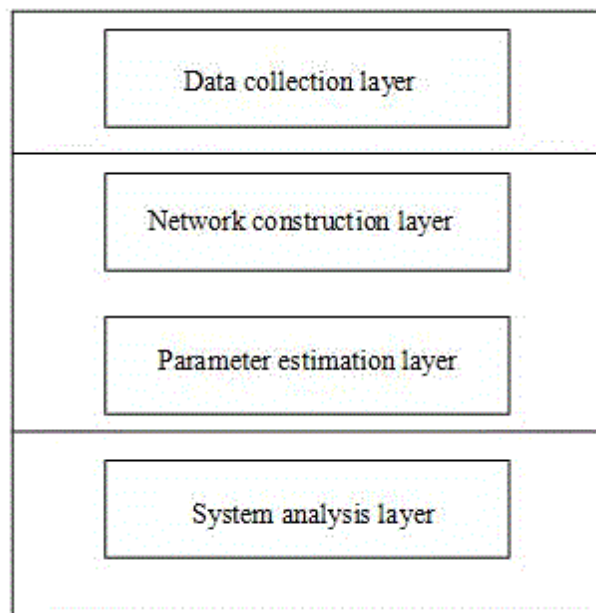
71: Shanghai Maritime University

72: XIAO Guangnian, CHEN Liu, CUI Qing'an

#### **54: NETWORK DYNAMIC EVOLUTION SYSTEM OF SOCIAL NETWORK ANALYSIS AND RANDOM ACTOR MODEL**

00: -

The invention relates to a network dynamic evolution system of social network analysis and random actor model, which comprises a data acquisition model for acquiring scientific research cooperation data; The cooperation model construction module is used for constructing a scientific research cooperation model through scientific research cooperation data, analyzing the social network of the scientific research cooperation model, and obtaining the structure and node attributes of the scientific research cooperation model; The evolution result obtaining module is used for constructing a random actor model, inputting the key elements of network evolution in the scientific research cooperation model into the random actor model for verification, obtaining the parameter estimation value of the key elements, and obtaining the dynamic evolution result of the network according to the parameter estimation value combined with the structure and node attributes of the scientific research cooperation model. The invention can make up for the deficiency of network analysis by scientometrics methods, so as to analyze the essence of the network more comprehensively and obtain more meaningful conclusions.



21: 2023/09074. 22: 2023/09/27. 43: 2024/03/27

51: G01N

71: Lingnan Normal University

72: Jinfang LIU

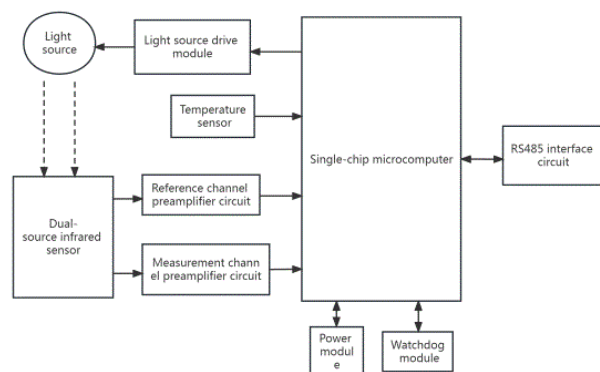
#### **54: A DUAL-BAND COMBUSTIBLE GAS CONCENTRATION DETECTION SYSTEM**

00: -

The present invention discloses a dual-band combustible gas concentration detection system, including a single-chip microcomputer, a power module, a temperature measurement module, a watchdog module, a light source drive module, a light source, a reference channel preamplifier circuit, a measurement channel preamplifier circuit, and a dual-source infrared sensor; the first pin of the single-chip microcomputer is connected to the light source through the light source drive circuit; the second pin of the single-chip microcomputer is connected to the temperature sensor; the third pin of the single-chip microcomputer is connected to the RS485 interface circuit; the fourth pin of the single-chip microcomputer is connected to the power supply module; the fifth pin of the single-chip microcomputer is connected with the watchdog circuit; the sixth pin of the single-chip microcomputer is connected with the first pin of the dual-source infrared sensor through the reference channel preamplifier circuit; the seventh pin of the single-chip microcomputer is connected to the second pin of the dual-source infrared sensor through the



measurement channel preamplifier circuit. The invention adopts a dual-band combustible gas concentration detection system to detect gas concentration and is unaffected by the environment.



21: 2023/09075. 22: 2023/09/27. 43: 2024/03/27

51: B03B

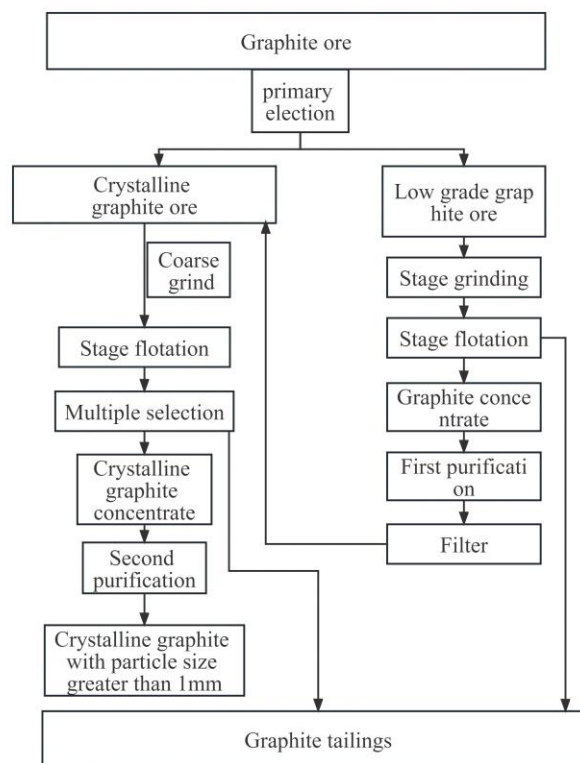
71: China University of Geosciences (Beijing)

72: ZHANG Yihe, ZHANG Na, DI Xiangyun, WANG Xinke, ZHANG Shuai

#### 54: METHOD FOR UTILIZING GRAPHITE ORE RESOURCES

00: -

The invention relates to a method for utilizing graphite ore resource, which comprises the following steps: judging whether a graphite raw ore is rich in crystalline graphite or aphanitic graphite, obtaining first crystalline graphite ore, aphanitic graphite ore and low-grade graphite ore, carrying out stage grinding and stage flotation on the low-grade graphite ore to obtain graphite concentrate and first graphite tailings, and purifying and filtering the graphite concentrate to obtain second crystalline graphite ore and second aphanitic graphite ore; Flotation and beneficiation are carried out on the first crystalline graphite ore and the second crystalline graphite ore to obtain the second graphite tailings and crystalline graphite concentrate; Purifying crystalline graphite concentrate to obtain refined graphite, crushing, grinding and classifying the first aphanitic graphite ore and the second aphanitic graphite ore to obtain the third stone ink tailings and aphanitic graphite concentrate, and purifying aphanitic graphite concentrate to obtain aphanitic graphite; Graphite tailings are prepared into 3D printed building components, composite plates or mineral compound fertilizers to realize the utilization of graphite ore resources.



21: 2023/09076. 22: 2023/09/27. 43: 2024/03/27

51: B60P

71: Zhengzhou University of Aeronautics

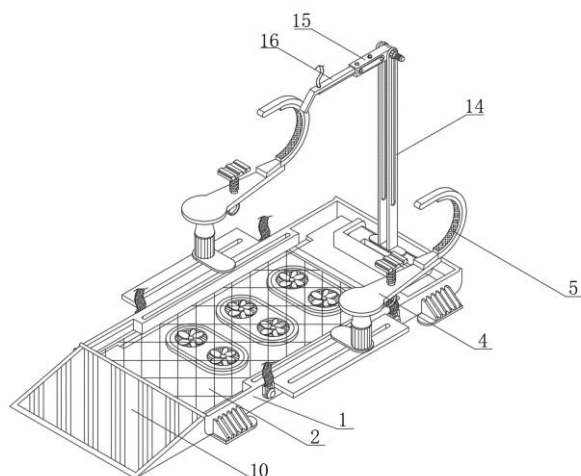
72: Si Qingmin, Li Junyan, Zhao Yonghang, Fu Shuai, Guo Xinyao

#### 54: A LIFE CYCLE DETECTION DEVICE FOR FIXED WING LIGHT SPORT AIRCRAFT

00: -

The present invention relates to the technical field of fixed wing aircraft detection equipment and discloses a fixed wing light motion aircraft life cycle detection device. The present invention effectively solves the problem of poor fixation effect on the fixed wing aircraft after flight, as sliding of the aircraft during maintenance can affect the safety of maintenance, and the overall convenience of aircraft maintenance is relatively insufficient; The technical solution includes: a base plate, a receiving plate, and a hydraulic rod. The top of the hydraulic rod is connected to the limit plate through bolts, and one side of the upper surface of the limit plate is fixedly connected with a restraining ring. This plan is beneficial for fixing and limiting the fixed wing aircraft through the installation of hydraulic rods, limit plates, tie rings, straps, and columns, to prevent sliding movement during maintenance and facilitate

maintenance of the lower part of the fixed wing aircraft.



21: 2023/09078. 22: 2023/09/27. 43: 2024/03/27

51: B22D

71: Zhengzhou Research Institute of Mechanical Engineering Co., Ltd.

72: LI, Zengli, LI, Kerui, CUI, Yu, WEI, Donghai, LI, Tong, CHEN, Zhao

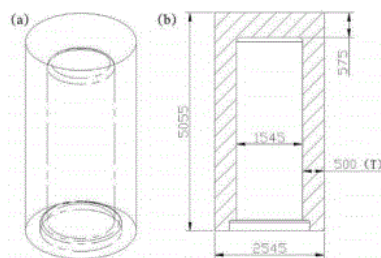
33: CN 31: 202211672453.X 32: 2022-12-26

#### **54: CORE-MAKING METHOD FOR ENHANCED COOLING OF 100-TON DUCTILE IRON CONTAINER CASTING**

00: -

A core-making method for enhanced cooling of 100-ton ductile iron container castings is disclosed.

Melted iron is poured into a casting cavity, the outer wall of the casting is cooled by a set of metal molds, the inner side is cooled by "chills and ventilation circulation inside a core rod", graphite chills and cast iron chills are used for the top and the body of the core rod respectively, chromite sand is filled between each chill and between the chills and the core rod, ventilation holes are formed circumferentially on the wall of the core rod, circulation ventilation pipelines are placed inside the core rod, 5 to 6 hours after pouring, the ventilation circulation inside the core rod can be stopped, and when the temperature at the temperature measurement point is less than 50 degree Celsius, the molds can be removed and the casting can be taken out.



21: 2023/09079. 22: 2023/09/27. 43: 2024/03/27

51: G01N

71: China Railway Seventh Group Guangzhou Engineering Co., Ltd.

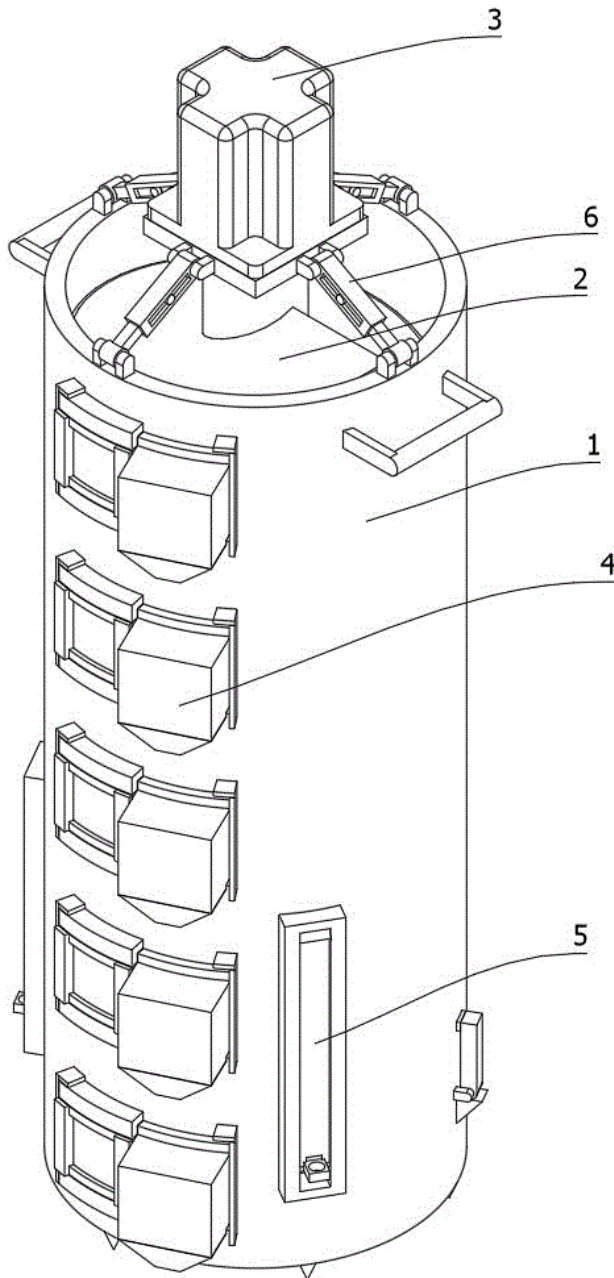
72: Junlong Zu, Zhanhu Fu, Lu Jia, Lei Peng, Xu Wu, Zhan'ao Shi, Wentao Zhi, Miaodi Zhang, Shiliang Du, Bin Tang, Geping Zhang, Tong Niu

33: CN 31: 202321573275.5 32: 2023-06-19

#### **54: A SOIL SAMPLING DEVICE FOR TESTING SOLIDIFICATION CONSTRUCTION**

00: -

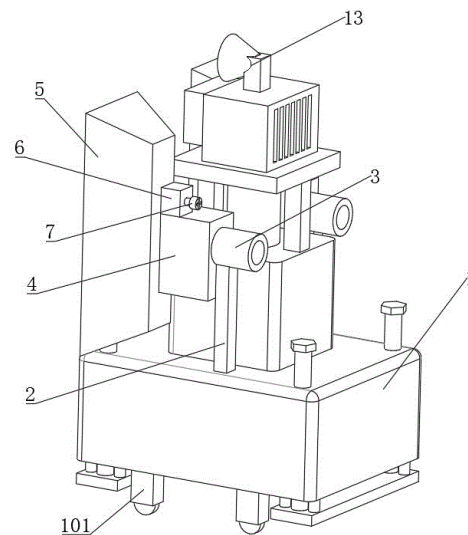
The invention relates to the field of road and bridge construction equipment, in particular to a soil sampling device used for curing construction. The invention comprises a shell, a drill rod, a servo motor and a sampling mechanism, and a sampling hole and a first chute are arranged on the shell; The sampling hole runs through the side wall of the shell, and the two first chutes are arranged on the upper and lower sides of the sampling hole. The sampling mechanism comprises a baffle plate and a sampling component, and the right side wall of the baffle plate is fixedly connected with the left side wall of the sampling component. The upper and lower ends of the baffle plate are provided with a first slide block sliding with a first chute; The sampling component is provided with a second slide, a second limit plate, a sampling cavity and a sampling funnel. The second sliding block is arranged at the upper and lower ends of the sampling component, and the second sliding block is fitted with the first chute. A sampling cavity through the sampling hole is arranged inside the sampling component, and a sampling funnel is arranged below the sampling cavity. The invention solves the problem that it is difficult for people to sample soil of different depths at the same time and the sampling efficiency is low by means of sampling holes and sampling mechanism.



21: 2023/09080. 22: 2023/09/27. 43: 2024/03/27  
 51: B23K  
 71: China Railway Seventh Group CO., LTD., China  
 Railway Seventh Engineering Bureau Group  
 Guangzhou Engineering CO., LTD.  
 72: Chun Zhou, Fan Zhang, Minmin Wei, Qifeng  
 Luo, Hang Zheng, Lungao Cui  
 33: CN 31: 202322277987.9 32: 2023-08-24  
**54: A PROTECTION DEVICE FOR CRUSHING A  
 LARGE SINGLE STONE IN A PIPE JACKING**  
 00: -

The invention discloses a protection device for  
 crushing a large single stone in a pipe jacking, which

comprises a cutting machine body, and a supporting  
 rod is fixed on both sides of the top of the cutting  
 machine body. The top of the supporting rod is  
 provided with a ventilation pipe, the top of the inner  
 cavity of the ventilation pipe is provided with a dust  
 exhaust component, and the input end of the  
 ventilation pipe is fixed with a dust intake cover. The  
 top of the dust intake cover is fixedly connected with  
 a fixing block, one side of the fixing block is  
 interspersed with a connecting rod, and the end of  
 the connecting rod away from the fixing block is  
 fixedly connected with an expanding cover for  
 accelerating dust inhalation. The interpenetration of  
 the connecting rod and the fixing block is provided  
 with a locking component; The invention utilizes the  
 structural design of the combination of an expansion  
 hood and a rubber block, and the motor in the  
 ventilation pipe at the top of the supporting rod  
 drives the fan blade to discharge the laser cut dust  
 through the dust inlet hood and the ventilation pipe.  
 The expanded cover increases the suction area of  
 the dust inlet cover, reduces the dust removal time  
 generated by laser cutting, and protects the health of  
 the site construction personnel.

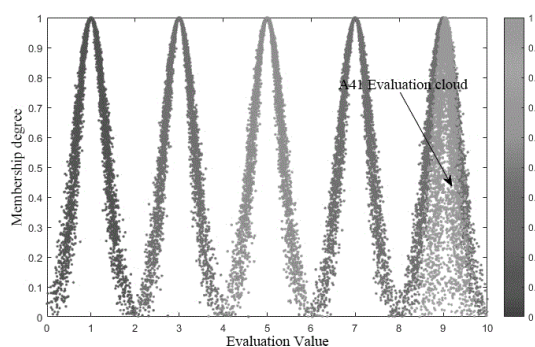


21: 2023/09081. 22: 2023/09/27. 43: 2024/03/27  
 51: G06F  
 71: Guizhou University of Engineering Science  
 72: Zhu Gao, Jing Gao, Wei Xiong, Yilei Liu, Suguo  
 Huang  
**54: A COMPREHENSIVE EVALUATION METHOD  
 FOR WATER INRUSH RISK OF BED-**

## SEPARATION WATER DISASTER BASED ON CLOUD MODEL

00: -

The invention relates to the technical field of water damage assessment in mining area, in particular to a comprehensive evaluation method for water inrush risk of bed-separation water disaster based on cloud model, including the following steps: Constructing an evaluation index system of water inrush risk of bed-separation water disaster; By using the improved AHP method, 10 different experts were invited to score the evaluation indicators, and the subjective weight  $W_1$  was determined. The improved entropy weight method is proposed to determine  $W_2$ , and the Lagrange coefficient method is used to determine the combined weight  $W$ . The beneficial effects are: The invention provides a comprehensive evaluation method for water inrush risk of bed-separation water disaster based on cloud model. In the dynamic evaluation model of water inrush risk of bed-separation water disaster, the index weight has a very important influence on the evaluation result. Therefore, selecting a suitable method is an important way to evaluate the accuracy of water inrush. The combination of subjective weighting method and objective weighting method not only makes up for the defects of contingency and fuzziness, but also makes the calculation result of weights more accurate.



21: 2023/09082. 22: 2023/09/27. 43: 2024/03/27

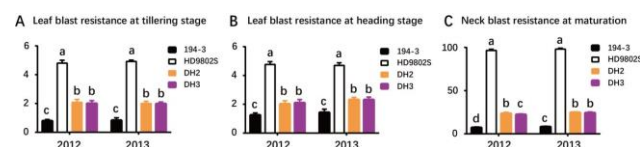
51: C12N

71: RICE RESEARCH INSTITUTE, GUANGDONG ACADEMY OF AGRICULTURAL SCIENCES  
72: CHEN, Pingli, LI, Chen, LIU, Qing, WANG, Yufu, FAN, Zhilan, CHEN, Wenfeng, SUN, Bingrui, MAO, Xingxue, JIANG, Liqun, ZHANG, Jing, LV, Shuwei, YU, Hang

## 54: METHOD FOR GENETIC IMPROVEMENT ON RICE BLAST RESISTANCE OF RICE THERMOSENSITIVE GENIC MALE STERILE LINE

00: -

The present invention discloses a method for genetic improvement on rice blast resistance of a rice thermosensitive genic male sterile line, and belongs to the field of plant transgenic technologies. In the method, a BC3F1 individual plant containing a target gene is screened using an indica rice thermosensitive genic male sterile line and a rice variety containing a blast resistance gene R6 through hybridization and backcrossing technologies in combination with the molecular marker technology, the gene chip technology and a rice blast resistance phenotype in a paddy field; and pollens are taken from the BC3F1 individual plant for induced and differentiated culture, thereby rapidly and efficiently obtaining indica rice thermosensitive genic male sterile lines DH2 and DH3 resistant to rice blast and stable in fertility, which are increased in plant height and number of effective panicles per plant compared with HD9802S.



21: 2023/09084. 22: 2023/09/27. 43: 2024/03/27

51: A01H

71: Shandong Institute of Pomology

72: Xu Li, Zhu Min, Wei Hairong, Tan Yue

33: CN 31: 202311121224.3 32: 2023-09-01

## 54: METHOD FOR RAPID SEEDLING FORMATION AND PROPAGATION OF PRUNUS AVIUM L. ROOTSTOCK TISSUE CULTURE SEEDLINGS

00: -

The invention provide a method for rapid seedling formation and propagation of *Prunus avium* L. rootstock tissue culture seedlings, which comprises the following steps: step 1, taking semi-lignified branches of *Prunus avium* L. rootstock as explants, sterilizing and putting the explants into a bud initiation culture medium for culturing; step 2, transferring the aseptic seedlings into a subculture medium for multiplication culture; step 3, performing culturing in the strong seedling culture medium; step 4, preparing a rooting matrix; step 5, soaking the tissue culture seedlings in rooting agent and planting



them in a hole tray filled with the rooting matrix; step 6, slowly uncovering the greenhouse film after rooting, ventilating and hardening the seedlings, transplanting the rooting seedlings into non-woven bags, then transferring them to a greenhouse for culturing, and grafting in the greenhouse when the thickness of the rootstock reaches the standard to obtain container seedlings. The invention can greatly improve the survival rate and rooting rate of tissue culture seedlings, greatly shorten the culturing period of tissue culture seedlings, and quickly reach the grafting standard; the invention can realize the grafting and propagation of tissue culture seedlings all year round, and is not limited by seasons, so as to realize to provide seedlings all year round; the grafted container seedlings can be transported directly.

21: 2023/09085. 22: 2023/09/27. 43: 2024/03/27  
51: B01D

71: DR. VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, WADGAONKAR, Vinayak S., KHURPADE, Pratiksha, TATPATE, Pallavi, BHATKAR, Siraj, SHENOY, Vignesh

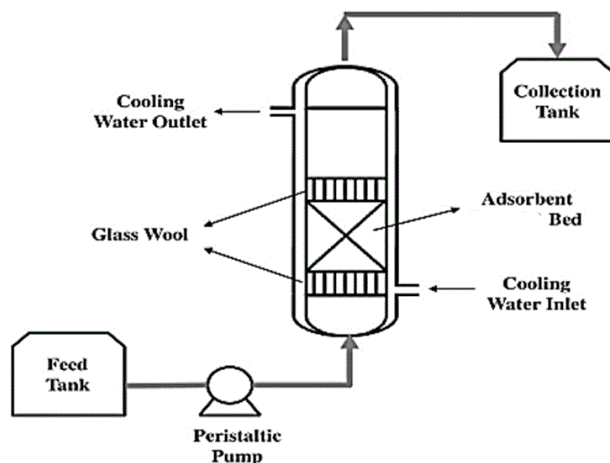
72: WADGAONKAR, Vinayak S., KHURPADE, Pratiksha, TATPATE, Pallavi, BHATKAR, Siraj, SHENOY, Vignesh

**54: A PROCESS FOR REMOVAL OF CR (VI) FROM WATER USING LIMA BEAN HUSK DERIVED ADSORBENT**

00: -

The present invention is related to a process for removal of CR (VI) from water using a lima bean husk-derived adsorbent. It involves the development and utilization of an adsorbent material derived from lima bean husks, a readily available agricultural byproduct. The method encompasses a series of processing steps, including drying, heating, washing, and sieving, resulting in an eco-friendly adsorbent material with a particle size range between 0.15 and 0.25 millimeters. Optimal operational conditions, such as flow rate, bed height, and pH, are established to maximize the adsorption process's efficiency. Under controlled conditions, the process effectively reduces the Cr (VI) concentration by more than 35 percent, rendering the treated water safe for consumption. This method provides an environmentally friendly and economically viable solution for addressing heavy metal contamination in water, with broad applications in water treatment and

environmental remediation. Eco Adsorb embodies sustainability, resourcefulness, and the utilization of natural waste materials to address pressing environmental challenges.



21: 2023/09086. 22: 2023/09/27. 43: 2024/03/27  
51: E01D

71: DR. VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, YADHAV, Adinath D., MINDE, Pravin, SAOJI, Atharva

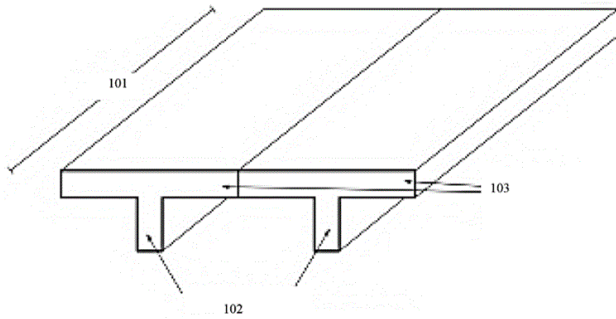
72: YADHAV, Adinath D., MINDE, Pravin, SAOJI, Atharva

**54: A PRECAST SINGLE TEE GIRDER WITH GLASS FIBER REINFORCED POLYMER IN BRIDGE CONSTRUCTION**

00: -

The present invention related to a precast single tee girder with glass Fiber reinforced polymer in bridge construction. The proposed invention aims to precast single tee girder with glass Fiber reinforced polymer in bridge construction. These precast/prestressed concrete units are super, uninterrupted spans and extra heavy load carrying capabilities resulting in lighter weight structures. For this reason, prestressed ideal tees are the best. Ideal Tee girder bridges can be used for spans ranging from 18m to 35m and can be used for straight and highly skewed bridges. Various advantages like good torsional resistance, flexibility in changing flange widths, and aesthetically appealing shape make the ideal. Tee girder can an excellent choice in the future bridge Industry.





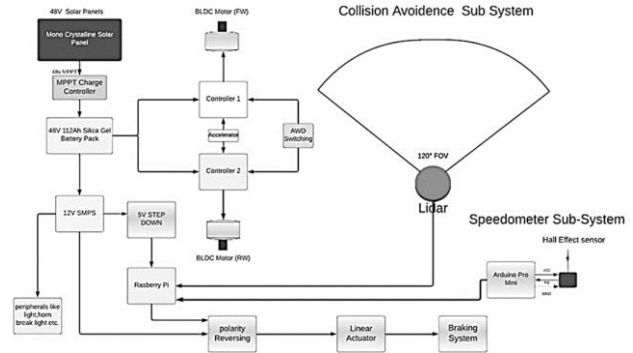
21: 2023/09087. 22: 2023/09/27. 43: 2024/03/27  
51: B60L

71: DR. VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, HIWALE, Anil S., NARKHEDE, Gaurav G., PATIL, Abhishek, SHENDKAR, Mayuresh, CHOPDA, Chirag  
72: NARKHEDE, Gaurav G., PATIL, Abhishek, SHENDKAR, Mayuresh, CHOPDA, Chirag, HIWALE, Anil S.

#### 54: A SOLAR POWERED ELECTRIC VEHICLE ENHANCEMENT SYSTEM

00: -

The present invention is related to a solar powered electric vehicle enhancement system. A low-cost plug and play electric braking system that allows for simultaneous engagement of brake pads on all wheels during braking, reducing wear and preventing accidental acceleration. The system includes a custom MPPT charge controller with Fuzzy logic techniques for efficient voltage regulation and battery charging. An electric vehicle drive sub-system equipped with a four-wheel drive mechanism, boasting 1KW motor power independently allocated to both front and rear wheels. This allows for seamless switching between rear and front-wheel drive, ensuring adaptability to various terrains. A battery management system (BMS) meticulously managing the vehicle's battery pack, delivering a typical range of 160–197 kilometers per charge. An advanced driver assistance system (ADAS) featuring adaptive cruise control, automatic pre-crash braking, and a collision avoidance system utilizing sensors to detect potential collisions with other vehicles, pedestrians, animals, and road obstacles.



21: 2023/09088. 22: 2023/09/27. 43: 2024/03/27  
51: G05D

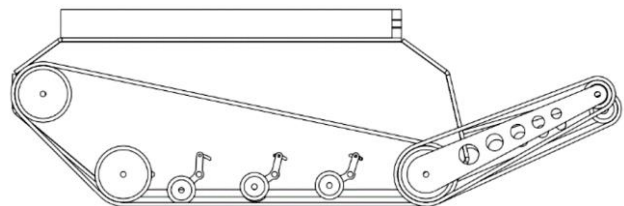
71: DR. VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, AHER, Jaideep Vinod, GADEKAR, Abhijit Suresh, BARVE, Shivprakash B., PATEL, Vibha

72: AHER, Jaideep Vinod, GADEKAR, Abhijit Suresh, BARVE, Shivprakash B., PATEL, Vibha

#### 54: A MODULAR UNMANNED GROUND VEHICLE WITH MULTI-MODAL SENSING AND CONTROL CAPABILITIES

00: -

The present invention related to a modular unmanned ground vehicle with multi-modal sensing and control capabilities. This invention aims to provide a Modular Unmanned Ground Vehicle (UGV) for surveillance and logistics operations. The proposed UGV is equipped with a range of hardware components and communication protocols that enable efficient and effective autonomous navigation, localization, mapping, and teleoperation. The UGV's modular design empowers effortless upgrades and replacement of individual components, leading to optimal performance and adaptability to varying conditions. This invention represents a groundbreaking solution to the limitations of existing UGVs, revolutionizing the field of autonomous ground vehicles for surveillance and logistics operations.



21: 2023/09089. 22: 2023/09/27. 43: 2024/03/27  
51: C08B

71: KANGZIN BIOTECHNOLOGY (BEIJING) CO., LTD.

72: SU, Huashan, SU, Mengzi, KANG, Zifan, SU, Tongxing, KANG, Shengli

33: CN 31: 2023108092509 32: 2023-07-04

**54: A COMPOSITE OLIGOMERIC POLYSACCHARIDE AND AN APPLICATION THEREOF**

00: -

The present invention relates to the technical field of research on polysaccharide activity, in particular to a composite oligomeric polysaccharide and an application thereof. The composite oligomeric polysaccharide of the present invention comprises the following components in parts by mass: 20~25 parts of isomaltooligosaccharide, 10~15 parts of chitosan oligosaccharide, 25~30 parts of soybean oligosaccharide, 20~25 parts of galactooligosaccharide, 12~18 parts of fructooligosaccharide and 10~15 parts of mannan oligosaccharide. These components have a synergistic effect, can improve the cell activity and be used for the root development of the crops and improve the crop yield; When used in livestock, the growth performance and production performance of the livestock can be improved and the immunity performance also can be improved.



21: 2023/09130. 22: 2023/09/28. 43: 2024/04/02

51: B01J; C10G

71: XINJIANG CAREER TECHNICAL COLLEGE

72: LI, Guofeng, YUN, Liang, WANG, Mingquan, YANG, Weiqiang, JIA, Qi

33: CN 31: 2023104801262 32: 2023-04-28

**54: HIGH-EFFICIENCY CATALYST FOR RESIDUAL OIL HYDROGENATION AND PREPARATION METHOD THEREFOR**

00: -

The present invention relates to the technical field of catalysts for residual oil hydrogenation, and particularly discloses a high-efficiency catalyst for residual oil hydrogenation and a preparation method

therefor. The preparation method comprises the following steps: S01. preparing a modified alumina carrier: mixing 1-1.2 parts by weight of pseudo-boehmite, 0.1-0.15 parts by weight of a pore-expanding agent, 0.85-0.15 parts by weight of modified silicon carbide, and 0.45-0.9 parts by weight of a forming aid, kneading, extruding into strips, drying at 120 °C for 4-5 h, and roasting at 600-800 °C for 3-5 h to obtain the modified alumina carrier; and S02. soaking the modified alumina carrier prepared in the step S01 by using a metal active component, drying at 140-150 °C for 5-6 h, and roasting at 400-500 °C for 3-4 h to obtain the catalyst. According to the present invention, the synergistic use of the pore-expanding agent polyacrylamide and the modified silicon carbide can effectively reduce a quantity of small-pore-diameter pores of the alumina carrier, increases the average pore diameter and the pore volume, keeps a good specific surface area, and improves the mechanical strength and thermal conductivity of a product.

21: 2023/09132. 22: 2023/09/28. 43: 2024/04/02

51: C04B

71: Hunan University of Technology

72: Zhe Zhang, Zhaochao Li, Bincheng Yuan, Yichuan Wang, Xuemei Zhou

**54: AN ULTRA-HIGH-PERFORMANCE FIBER-REINFORCED CONCRETE (UHPFRC) FOR ENERGY-EFFICIENT AND ECO-FRIENDLY STRUCTURAL APPLICATIONS**

00: -

An Ultra-High-Performance Fiber-Reinforced Concrete (UHPFRC) for energy-efficient and eco-friendly structural applications, which belongs to the technology field of construction materials, is formulated with concrete, silica fume, mineral admixtures, quartz sand, hybrid fibers, water, and high-efficiency superplasticizer. The mass ratios of the various components are as follows: 1 part concrete, 0.2 to 0.4 parts silica fume, 0.6 to 1.5 parts mineral admixtures, 1 to 1.2 parts quartz sand, and 0.17 to 0.25 parts water. The proportion of the high-efficiency superplasticizer is 1.9% to 2.1%, and the water-binder ratio is 0.14 to 0.20. The total proportion of hybrid fibers ranges from 3% to 9%. The UHPFRC material, which replaces 40% to 60% of the concrete content with mineral admixtures and partially substitutes synthetic fibers for steel fibers,

can effectively take full advantages of the properties of all components within it to enhance the load-bearing capacity of engineering structures, reduce concrete and steel fiber consumption, lower energy consumption, and decrease harmful gas emissions. It's helpful to achieve energy-saving, emission-reduction, and environmentally friendly goals, thereby facilitating the wide application of UHPFRC materials in engineering structures.

21: 2023/09133. 22: 2023/09/28. 43: 2024/04/02  
51: E01D

71: Hunan University of Technology

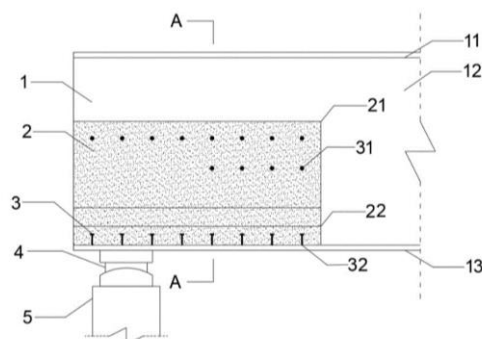
72: Zhaochao Li, Zhe Zhang, Mengqin Wu, Yichuan Wang

**54: A STRENGTHENING STRUCTURE AND A CONSTRUCTION METHOD UTILIZING ULTRA-HIGH-PERFORMANCE CONCRETE FOR REPAIRING CORRODED MAIN BEAM ENDS OF STEEL BRIDGE**

00: -

The present invention proposes a strengthening structure and a construction method of utilizing Ultra-High-Performance Concrete for repairing corroded beam ends of steel bridges, belonging to the field of bridge repair construction technology. The strengthening structure includes casings made of ultra-high-performance concrete (UHPC). The casings, which are longer than the corroded area of main beam end, are connected to main beam through shear connectors, encasing the beam's corroded area. The reason for utilizing UHPC is owing to its dense microstructure, high impermeability, lightweight, high strength, and the ability to effectively prevent from further corrosion. The UHPC material can not only enhance the durability of steel bridge beam, but also improve the structural stiffness and load-bearing capacity of steel main beam. Compared to the undamaged main beam of steel bridge, the load-bearing capacity of repaired main beam is increased by more than 20%, and the bending stiffness is increased by more than 60%. Firstly, the repairing method can reduce welding operations, omit lifting jobs, streamline construction processes, simplify construction procedures, and enhance durability of bridge. Secondly, the method provides repaired main beam of steel bridge with high structural strength and low residual stress. Thirdly, the method is practical,

aesthetically pleasing, and economically beneficial. The method has a potential for wide application in the field of repairing main beam of steel bridge.



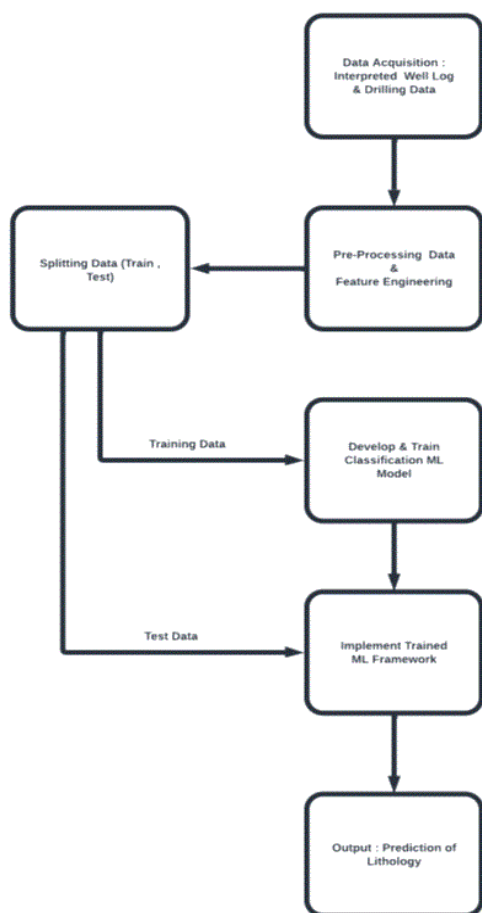
21: 2023/09137. 22: 2023/09/28. 43: 2024/04/02  
51: G06N

71: GUPTA, Pratush, LINGAM, Devashree, MANDYAL, Rashi, SINHARAY, Rajib K., DR. VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, CHAVAN, Hrishikesh, PATIL, Nishant  
72: CHAVAN, Hrishikesh, PATIL, Nishant, GUPTA, Pratush, LINGAM, Devashree, MANDYAL, Rashi, SINHARAY, Rajib K.

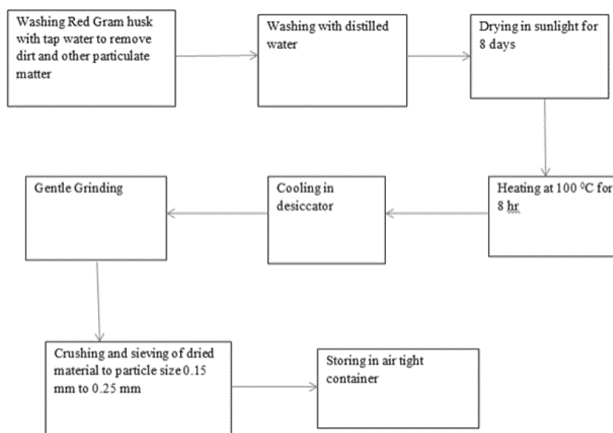
**54: A MACHINE LEARNING MODEL FOR LITHOLOGY PREDICTION USING WELL LOGS AND DRILLING DATA**

00: -

The present invention related to a machine learning model for lithology prediction using well logs and drilling data. The standard well log processing and interpretation workflow produces good results, but because the outcomes rely on the experience of the domain specialists, they may be arbitrary and inconsistent. The workflow can take a while to complete because several iterations may be necessary to produce excellent results. Using improvements in computational capability and machine learning techniques is one way to solve these issues and ultimately enhance the objectivity, consistency, and effectiveness of the well log processing and interpretation workflow. We are concentrating on creating a machine learning-based system that automates the interpretation of lithology workflow, which is just one of many workflows that range from raw logs received in the field to properties analysed by specialists.



comprehension of its unique characteristics. The ultimate goal is to establish standardized protocols for the application of these developed adsorbents, ensuring their efficacy in the removal of heavy metal ions such as Cu (II) from water. The adsorbent is prepared from red gram husk by making slight modifications to and combining traditional methods, which involve drying the husk under sunlight and subsequently heating it to a temperature of 100°C.



21: 2023/09138. 22: 2023/09/28. 43: 2024/04/02  
51: A01N

71: DR. VISHWANATH KARAD MIT WORLD  
PEACE UNIVERSITY, WADGAONKAR, Vinayak S.,  
KHURPADE, Pratiksha, TATPATE, Pallavi,  
BHATKAR, Siraj, SHENOY, Vignesh  
72: WADGAONKAR, Vinayak S., KHURPADE,  
Pratiksha, TATPATE, Pallavi, BHATKAR, Siraj,  
SHENOY, Vignesh

#### **54: A METAL ION ADSORBENT FOR COPPER (II) REMOVAL FROM RED GRAM HUSK**

00: -

The present invention relates to a metal ion adsorbent for copper (ii) removal from red gram husk.

The objective of this invention is to utilize the agricultural byproduct, red gram husk, as an effective adsorbent for Cu (II) metal ions. This is achieved through a process of drying and heating the husk, resulting in the creation of a new adsorbent. The newly produced adsorbent is thoroughly characterized to understand its various physico-chemical properties and structural morphology, thereby facilitating a better

21: 2023/09139. 22: 2023/09/28. 43: 2024/04/02  
51: A01C

71: DR. VISHWANATH KARAD MIT WORLD  
PEACE UNIVERSITY, JOSHI, Ratnadip R.

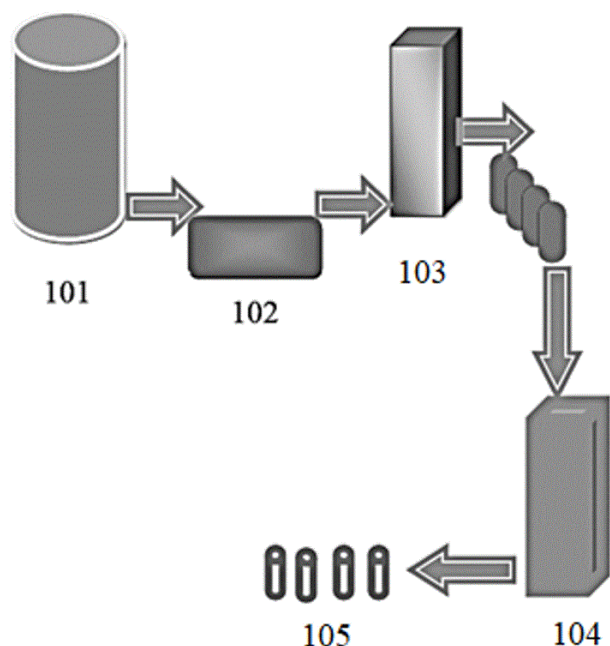
72: JOSHI, Ratnadip R.

#### **54: A SUSTAINED RELEASE GREEN SMART BIO FERTILIZER PELLET**

00: -

The present invention related to a sustained release green smart bio fertilizer pellet. This invention is treating a balanced organic manure from a bio digester. This Bio fertilizer is not mixed, rather coated with bio polymers for Sustained Release of nutrients to the crops. This makes it a Green Smart Bio Fertilizer enhancing soil productivity, reducing fertilizer wastage, reducing soil-water-air pollution, fostering circular economy with more job creation opportunities at localized sectors empowering rural and remote living citizens, especially. These are coated pellets of Green Processed Bio fertilizers which shall have green polymer coatings instead of mixed binders. This Our Sustained Release Green Smart Bio Fertilizer Pellets shall be made up of fully sustainable and green processes.



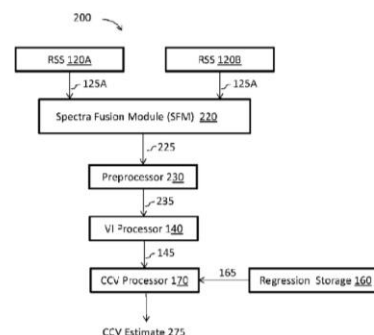


21: 2023/09146. 22: 2023/09/28. 43: 2024/04/02  
 51: A01G; G06T  
 71: THE STATE OF ISRAEL, MINISTRY OF AGRICULTURE & RURAL DEVELOPMENT AGRICULTURAL RESEARCH ORGANIZATION (ARO) (VOLCANI INSTITUTE)  
 72: ROZENSTEIN, Offer, TANNY, Josef, KAPLAN, Grigori  
 33: US 31: 63/154,737 32: 2021-02-28  
 33: WO 31: PCT/IB2022/051748 32: 2022-02-28  
**54: ESTIMATION OF A CROP COEFFICIENT VECTOR BASED ON MULTISPECTRAL REMOTE SENSING**

00: -

A system and method for estimating a crop coefficient vector (CCV) uses one or more remote sensors that provide multispectral images of a crop growing area. The CCV includes a crop coefficient estimate, KC, and at least one of a leaf area index estimate, LAI, and a crop height estimate, CH. The system includes one or more remote sensing subsystems (RSS); a preprocessor configured to generate harmonized spectral data from multispectral images; a vegetation index (VI) processor to calculate VIs from the harmonized spectral data; a storage medium containing pre-determined regression coefficients; and a CCV processor configured to calculate an estimated CCV. The RSS includes an image sensor mounted on a platform which may be airborne, such as an unmanned aerial vehicle, or space-borne, such as

an orbiting satellite. The image sensor includes visual and/or infrared bands.



21: 2023/09163. 22: 2023/09/29. 43: 2024/04/02  
 51: A61K  
 71: GUIZHOU BOTANICAL GARDEN  
 72: ZHOU, Yan, LI, Jing, LI, Weijie  
 33: CN 31: 2023111598681 32: 2023-09-08  
**54: A METHOD FOR IMPROVING THE SEEDLING RATE OF RHODODENDRON BY USING RHODODENDRON SPERMOSPHERE MICROORGANISMS**

00: -

The present invention provides a method for improving the seedling rate of rhododendron by using rhododendron spermosphere microorganisms, and belongs to the technical field of rhododendron planting. The method of the present invention comprises the following steps: (1) Extracting rhododendron spermosphere microorganisms to prepare a spermosphere fungal microbial agent; (2) Mixing the spermosphere fungal microbial agent solution with a substrate, sowing rhododendron seeds and culturing until the seeds germinate; (3) Spraying the spermosphere fungal microbial agent solution onto the germinated rhododendron seedlings. In combination with the rhododendron spermosphere microorganisms, the present invention can improve the germination rate and seedling rate of rhododendron seeds, improve the quality of the seedlings, reduce the use of chemical reagents and drugs and protect the ecological environment.





21: 2023/09205. 22: 2023/09/29. 43: 2024/04/02

51: C05F

71: TOOPI ORGANICS

72: HUGUIER, Pierre, ROES, Michael

33: FR 31: FR2102612 32: 2021-03-16

**54: METHOD FOR TREATING HUMAN OR ANIMAL URINE BY BASIFICATION AND USES OF THE URINE OBTAINED IN PARTICULAR AS FERTILISING SUBSTANCE**

00: -

The subject matter of the invention is a method for treating human or animal urine, comprising the implementation of the following steps: - a step of basifying the urine in such a way that the urine has a pH of greater than or equal to 9, - a step of filtering the urine, - a step of transforming the urine by fermentation. The invention also relates to the transformed urine obtained and to the coproducts of this method, and also to the uses thereof, in particular as fertilising substance.

21: 2023/09213. 22: 2023/10/02. 43: 2024/04/03

51: F24F

71: EVAPCO, INC.

72: WRIGHT, Kenneth Calvin, JOHNSON, Patrick Stephen

33: US 31: 63/169,420 32: 2021-04-01

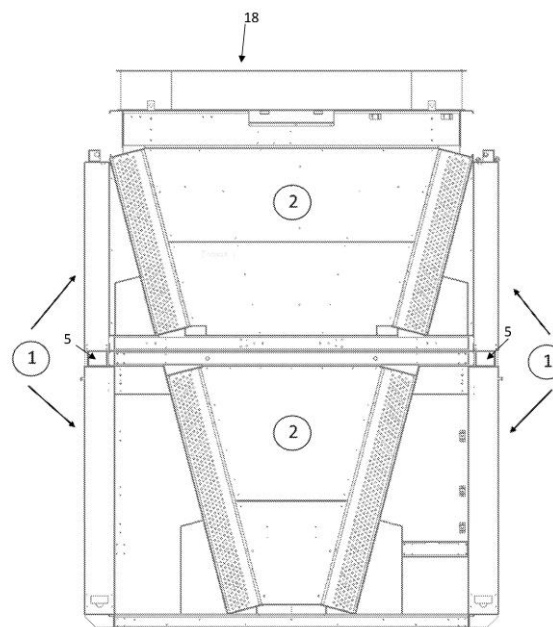
33: US 31: 17/711,504 32: 2022-04-01

**54: ADIABATIC PRE-COOLING REDISTRIBUTION SYSTEM**

00: -

A water redistribution system for adiabatically pre-cooled dry coolers having stacked adiabatic panels, the water redistribution system located between

upper and lower adiabatic panels and having a plurality of alternating baffles arranged to reduce water free-fall height and resultant splashing. Upwardly turned flanges at the top of each baffle inhibit the travel of water out of the interior water channel.



21: 2023/09235. 22: 2023/10/03. 43: 2024/04/03

51: G06Q

71: DR. VISHWANATH KARAD MIT WORLD

PEACE UNIVERSITY, RANE, Rashmi

Ashwinikumar, SABU, Nidhi, UTTAM, Sanket,

SHIRBHATE, Venkatesh Dilip, CHAUDHARI, Keyur

Sunit, DESHPANDE, Kalyani Prashant

72: RANE, Rashmi Ashwinikumar, SABU, Nidhi,

UTTAM, Sanket, SHIRBHATE, Venkatesh Dilip,

CHAUDHARI, Keyur Sunit, DESHPANDE, Kalyani

Prashant

**54: A SYSTEM FOR EVALUATING AND RANKING CANDIDATE RESUMES**

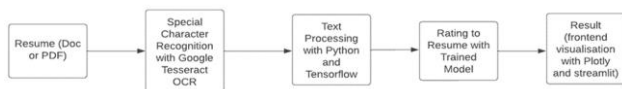
00: -

The present invention related to a system for evaluating and ranking candidate resumes. The proposed application is based on optical character recognition and deep learning methods.

The application will take the job resume (pdf) as input. It will use optical character recognition to extract the text irrespective of the font and size.

Then the extracted data is fed the machine learning model (Universal Sentence Encoder) which then

returns the ranking of the resume based on the job description provided.



21: 2023/09236. 22: 2023/10/03. 43: 2024/04/03

51: A61D

71: DR. VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, WAGHMARE, Pratap, THOTE, Abhishek M.

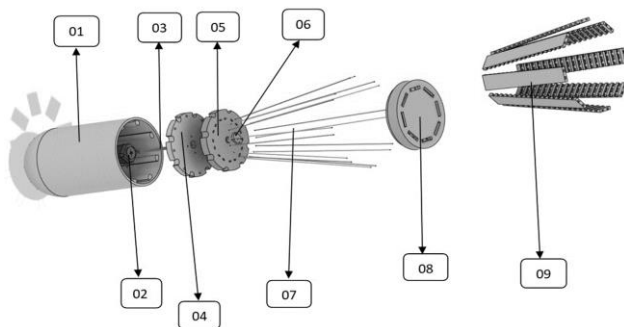
72: WAGHMARE, Pratap, THOTE, Abhishek M.

#### **54: A SOFT UNDERWATER MULTIARMED ROBOTIC GRIPPER**

00: -

The present invention related to a soft underwater multiarmed robotic gripper. The soft multiarmed robotic gripper will be helpful to pick soft and delicate living and non-living objects inside the water bodies like river, sea, lake, etc. The purpose of this task is to rescue soft and delicate objects submerged inside the water bodies without any harm to them.

Additionally, underwater living things can be studied by taking some specimen from the water bodies for scientific study or display.



21: 2023/09237. 22: 2023/10/03. 43: 2024/04/03

51: C02F

71: DR. VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, PATEL, Hitik, KULKARNI, Kaustubh Ganesh, TAMHANKAR, Neel, HAVALDAR, Sanjay Narayan

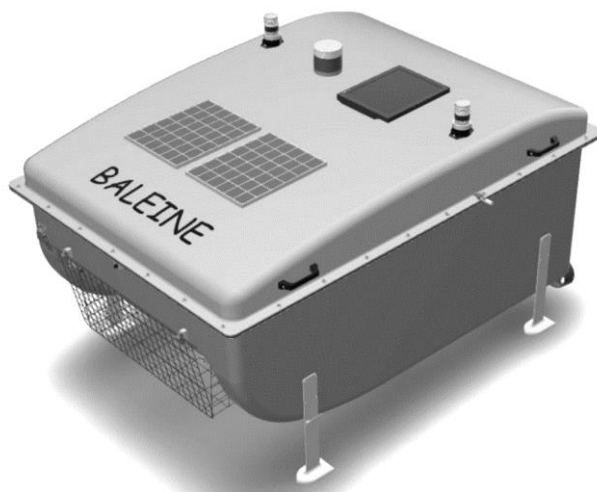
72: PATEL, Hitik, KULKARNI, Kaustubh Ganesh, TAMHANKAR, Neel, HAVALDAR, Sanjay Narayan

#### **54: A WATER CLEANING BOAT**

00: -

The present invention related to a water cleaning boat. The main sources of plastic debris found in the ocean are land-based, Ocean-based plastic pollution originates primarily from the fishing industry, nautical

activities and aquaculture. The Baliene Boat is an aqua boat that removes plastics and other floating debris from the water surface. It is designed especially for use in ports and harbors. Shaped like a catamaran, it can collect approx. up to 350 kg of trash at a time inside its cage with tremendous number of new features which leads to the greater heights of innovation while saving our environment.



21: 2023/09238. 22: 2023/10/03. 43: 2024/04/03

51: C09K

71: Ramadhin, Jagjeet K Saluja, Ravi Shrivastava, Vikas Dubey

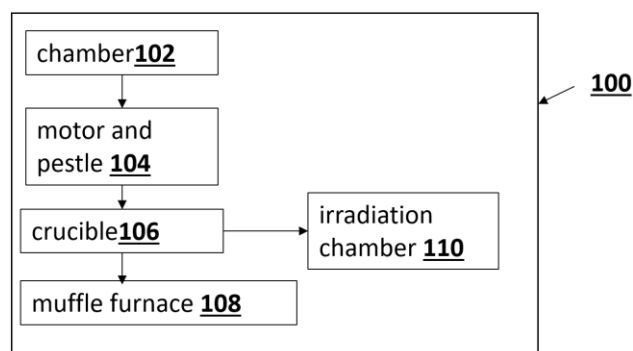
72: Ramadhin, Jagjeet K Saluja, Ravi Shrivastava, Vikas Dubey

#### **54: A DEVICE FOR PRODUCING YTTRIUM ZIRCONATE (Y<sub>2</sub>Zr<sub>2</sub>O<sub>7</sub>:Gd<sup>3+</sup>) DOPED PHOSPHOR**

00: -

A device (100) for producing Yttrium Zirconate (Y<sub>2</sub>Zr<sub>2</sub>O<sub>7</sub>:Gd<sup>3+</sup>)doped phosphor, wherein the device (100) comprises of: a chamber (102) for collecting a plurality of materials such as Yttrium (III) Oxide (Y<sub>2</sub>O<sub>3</sub>), Zirconium Oxide (ZrO<sub>2</sub>), Gadolinium Oxide (Gd<sub>2</sub>O<sub>3</sub>) as an activator, and boric acid (H<sub>3</sub>BO<sub>3</sub>) as a flux; a motor and pestle (104) in association with the chamber (102) for grinding the collected plurality of materials along with phosphor into a fine powder; a crucible (106) in association with the motor and pestle (104) for placing the grounded phosphor and heating in a muffle furnace (108) at an ambient temperature to 1300-1400oC followed by cooling; and an irradiation chamber (110) in association with the crucible (106) for

exposing the cooled grounded powder to gamma rays for producing gamma radiation by phosphor.



21: 2023/09240. 22: 2023/10/03. 43: 2024/04/03

51: B02C; B07B; B65G

71: METSO FINLAND OY

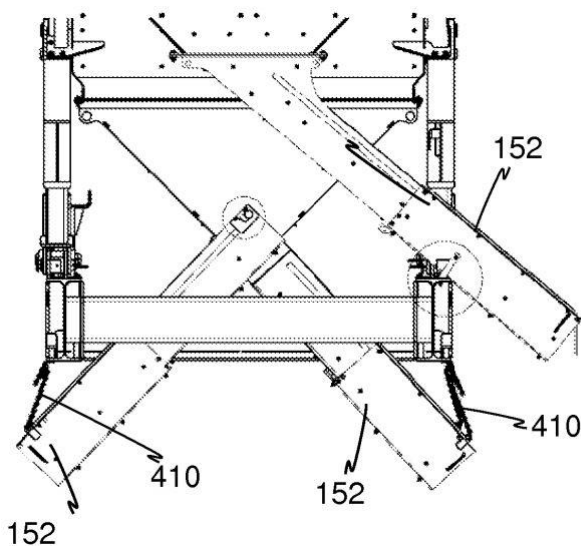
72: SHARMA, Jasvinder

33: IN 31: 202111019069 32: 2021-04-26

#### **54: DIVIDING HOPPER AND TRANSPORTABLE SCREENING APPARATUS**

00: -

A method and system adapting a mineral material crushing system (100) between operating and transport configurations. A screen support frame (120) receives and supports a multideck screen (130) with a plurality of stacked screen decks outputting different size fractions at a discharge end. A dividing hopper (150) receives different size fractions from the multideck screen). A chute (152) guides the different size fractions to a chute output position. A platform frame (110) movably supports the screen support frame (120) allowing the screen support frame (120) and the multideck screen (130) move between an elevated operating position and to a lowered transport position. The chute output position laterally resides outside a lateral footprint bordered by the platform frame. The chute (152) moves between chute transport and operating states so that at least a portion of its weight remains carried by the dividing hopper (150).



21: 2023/09245. 22: 2023/10/03. 43: 2024/04/03

51: B01D; C22B

71: SEABRIDGE GOLD INC.

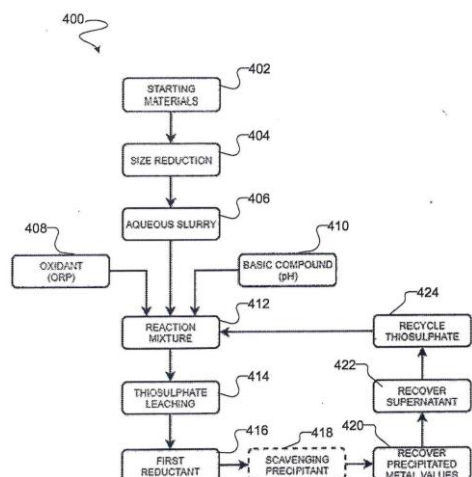
72: MELASHVILI, Mariam, SMOLIK, Theodore James, DREISINGER, David

33: US 31: 63/174,409 32: 2021-04-13

#### **54: IN-SITU GENERATION OF THIOSULPHATE LIXIVANT SYSTEMS AND METHODS FOR PRECIOUS METAL LEACHING AND RECOVERY**

00: -

A method of extracting precious metal values from a starting material using thiosulphate as a lixiviant. The precious metal values can be recovered from solution using a reductant. The reductant may be a naturally occurring ore including as a component pyrite, chalcopyrite, marcasite and/or pyrrhotite, or can be ferrous sulphate. Sodium hydrosulphide can be added as a scavenging precipitant after the reductant to regenerate thiosulphate. The thiosulphate can be recycled to leach additional precious metal values.



21: 2023/09300. 22: 2023/10/04. 43: 2024/04/10  
51: A21D

71: PURATOS NV

72: BOSMANS, Geertrui, PAREYT, Bram

33: BE 31: BE2021/5325 32: 2021-04-27

**54: PHOSPHATE-FREE BAKING POWDER**

00: -

The present invention relates to baking powders suitable for use as a phosphate-free leavening agent in baking, more particularly in cakes, comprising baking salt(s) and oxidase(s) of class EC 1.1.3. Also, phosphate-free cake batters or cake products comprising baking salt(s) and oxidase(s) of class EC 1.1.3, and methods to obtain them, are provided herein.

21: 2023/09302. 22: 2023/10/04. 43: 2024/04/10  
51: C05F

71: TOOPI ORGANICS

72: HUGUIER, Pierre, ROES, Michael

33: FR 31: FR2102613 32: 2021-03-16

**54: METHOD FOR TREATING HUMAN OR ANIMAL URINE BY DILUTION AND FERMENTATION AND USES OF THE URINE OBTAINED IN PARTICULAR AS FERTILIZING SUBSTANCE**

00: -

The invention relates to a method for treating human or animal urine comprising the implementation of the following steps: - a step of diluting the urine in water, and - a step of fermentation. The invention also relates to the transformed urine obtained and the coproducts of this method, and also the uses thereof, particularly as fertilizing substance.

21: 2023/09353. 22: 2023/10/06. 43: 2024/04/10  
51: H02J

71: ENPHASE ENERGY, INC.

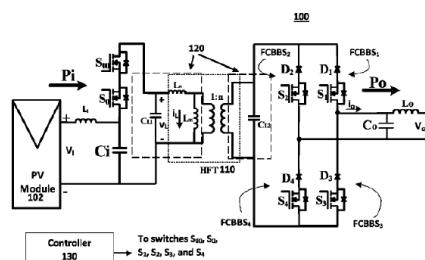
72: MOZAFFARI, Khalegh, RODRIGUEZ, Fernando, CHAPMAN, Patrick Lyle

33: US 31: 63/159,415 32: 2021-03-10

**54: PARTIAL-RESONANT CONVERTERS FOR PV APPLICATIONS**

00: -

A partial-resonant converter is provided herein and includes a partial resonant link formed by a magnetizing link inductor connected in parallel with a first capacitor on a primary winding side of a transformer and a second capacitor on a secondary winding side of the transformer, a pair of series connected switches coupled across the magnetizing link inductor and the first capacitor, and a plurality of forward conducting bidirectional blocking switches that connect an input source and an output load to the magnetizing link inductor during operation.



21: 2023/09379. 22: 2023/10/09. 43: 2024/04/09  
51: C12N

71: Institute of Animal Husbandry, Henan Academy of Agricultural Sciences

72: ZHANG Jiaqing, LV Lingyan, XING Baosong, WANG Xianwei, YAN Xiangzhou, LIU Hongbo, LU Qingxia, SHEN Ming, REN Qiaoling

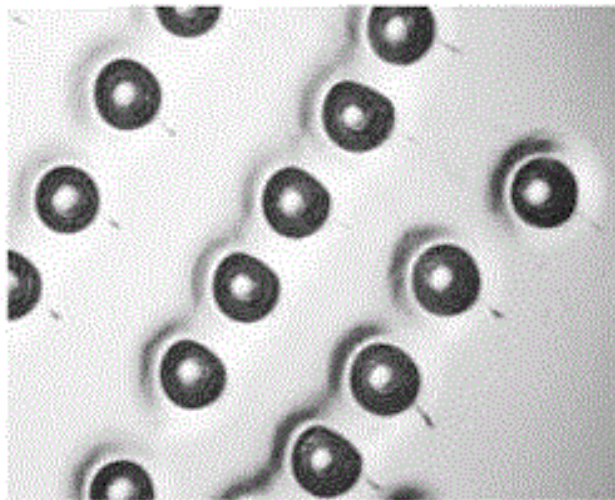
**54: METHOD FOR CULTURING ZONA-FREE CLONED EMBRYOS**

00: -

The invention discloses a method for culturing zona-free cloned embryos. A new reagent, phytoagglutinin (PHA), is adopted, and low-concentration PHA is added into micro-wells, so that the micro-wells are soaked in PHA, and the inner wall of the micro-wells is fully contacted with PHA. Under the action of PHA, the reconstructed zona-free embryos are manually cloned, and blastomeres develop close to the inner wall of the micro-wells from the cleavage step, and



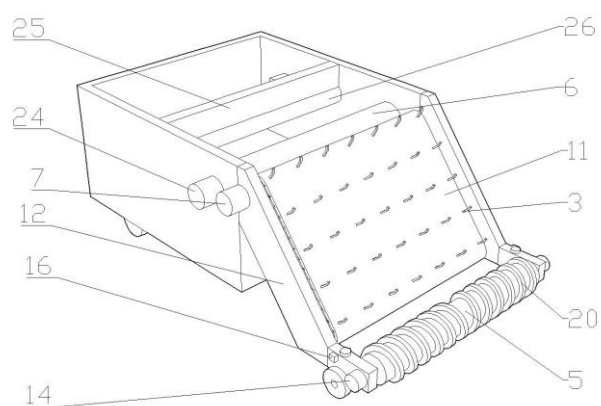
the cleavage rate and blastocyst rate in the micro-wells are significantly improved.



21: 2023/09380. 22: 2023/10/09. 43: 2024/04/09  
51: A01B  
71: Agriculture Resource and Environment Research Institute, Tibet Academy of Agriculture and Animal Science  
72: ZHANG Huaguo  
**54: PLASTIC FILM RESIDUE-FREE RECYCLING DEVICE**  
00: -

The invention belongs to the technical field of plastic film recycling treatment, and provides a plastic film residue-free recycling device, which comprises a mounting frame arranged at the front end of a machine body, a film rake arranged on the mounting frame, the film rake is rotationally adapted to the machine body, and the film rake is used for conveying the plastic film into a collection box arranged on the machine body; the stripping assembly comprises a stripping roller and an absorption accessory arranged in the collection box, where the stripping roller is connected with the collection box, and the direction of rotation of the stripping roller is opposite to that of the film rake; one end of the film rake extending into the collection box is in sliding contact with the stripping roller, and the absorption accessory is used for absorbing the mulching film; the cleaning assembly comprises a cleaning roller which is switched at the front end of the mounting frame, a guide piece is arranged on the cleaning roller, and the cleaning roller and the guide piece are matched for moving the object to be cleaned along the two sides of the machine body;

the lifting piece is arranged on the mounting frame, and the lifting end of the lifting piece is connected with a guide wheel arranged on the mounting frame, and the guide wheel lifts relative to the machine body through the lifting piece, and the guide wheel is used for contacting the ground. The invention can effectively improve the efficiency and effect of plastic film recycling.



21: 2023/09381. 22: 2023/10/09. 43: 2024/04/10  
51: G06K  
71: Hunan University  
72: Zhaohui HU  
**54: INTELLIGENT ASSEMBLY METHOD OF ELECTRONIC PARTS PRODUCTS BASED ON MACHINE VISION RECOGNITION**  
00: -

The present invention discloses an intelligent assembly method of electronic parts products based on machine vision recognition, including the following steps: S1, model improvement and training; S2, camera calibration, get the conversion relationship between pixel coordinates and robot coordinates; S3, assembly position detection; S4, robot guided assembly. The present invention adopts the above-mentioned intelligent assembly method of electronic parts products based on machine vision recognition, which combines deep learning and image processing methods to ensure that the assembly position of parts can be detected smoothly, which greatly improves the assembly efficiency and assembly accuracy of parts, and reduces the failure of assembly due to the deviation of parts position.

21: 2023/09382. 22: 2023/10/09. 43: 2024/04/10  
51: G06K



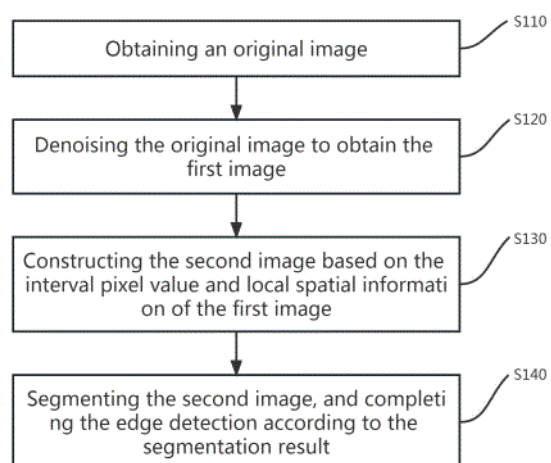
71: Hunan University

72: Zhaohui HU, Zhaobin ZOU

**54: ADAPTIVE THRESHOLD NEUTROSOPHIC SET ALGORITHM SUITABLE FOR THE VEHICLE BODY AND ITS ELECTRICAL FRAME**

00: -

The embodiment of this invention provides an edge detection method, device, equipment, and computer-readable storage medium. The method includes obtaining the original image; denoising the original image to obtain the first image; constructing the second image based on an interval pixel value and local spatial information of the first image; segmenting the second image, and completing the edge detection according to the segmentation result. In this way, the fast edge detection can be performed on the image, which improves the detection speed while improving the detection accuracy and is robust to Gaussian image noise and salt-and-pepper image noise.

21: 2023/09383. 22: 2023/10/09. 43: 2024/04/09  
51: A23L; C12N

71: LI, Changhong

72: LI, Changhong, ZHOU, Yinfei

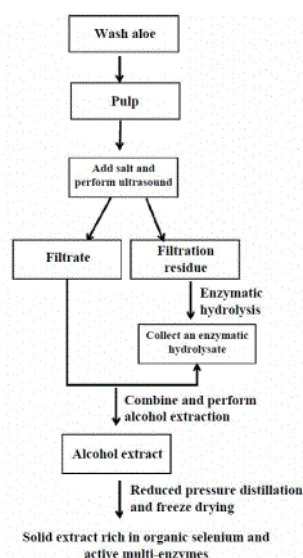
33: CN 31: 202211633029.4 32: 2022-12-19

**54: METHOD FOR SIMULTANEOUSLY EXTRACTING ACTIVE MULTI-ENZYMES AND ORGANIC SELENIUM FROM ALOE**

00: -

The present invention discloses a method for simultaneously extracting active multi-enzymes and organic selenium from aloe, and relates to the technical field of aloe processing. In the present invention, aloe is first pulped, then inorganic salt is

added to perform ultrasonic extraction. A filtration residue and a filtrate are obtained after filtration, then the filtration residue is subjected to enzymatic hydrolysis to obtain an enzymatic hydrolysate, and finally the enzymatic hydrolysate and the filtrate are combined to perform alcohol extraction. An obtained alcohol extract is subjected to reduced pressure distillation and freeze drying so as to obtain a powder product. The powder product of the present invention is rich in SOD active enzymes and organic selenium, greatly enhancing the efficacy of the extract.

21: 2023/09384. 22: 2023/10/09. 43: 2024/04/09  
51: A61H

71: Dongguan University of Technology

72: CHU, Hongpeng, CHEN, Huizhi, ZENG, Daxing

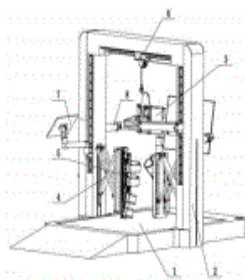
33: CN 31: 2023110443024 32: 2023-08-18

**54: ROBOT SYSTEM ASSISTING IN LOWER LIMB REHABILITATION**

00: -

Disclosed is a robot system assisting in lower limb rehabilitation. The robot system includes: a treadmill, a machine frame, a straightening assisting unit, a transverse movement unit and an orthopedic unit. The straightening assisting unit can support a lower back of a patient and can be slid to adapt to patients of various heights, such that support safety and stability are improved, The orthopedic unit can fix legs of the patient and is connected to the machine frame with the aid of the transverse movement unit, and the transverse movement unit can drive the orthopedic unit to reciprocate. The robot system can

reproduce changes of a center of gravity during real walking of human lower limbs, such that various complex gait training requirements are satisfied, an effect of lower limb rehabilitation training is enhanced, and comprehensive recovery of motor functions of the lower limbs is promoted.



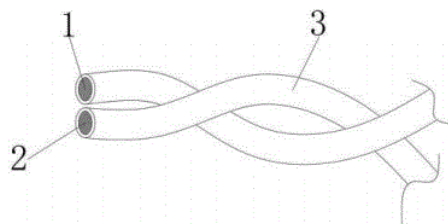
21: 2023/09385. 22: 2023/10/09. 43: 2024/04/10  
51: C03C

71: Jiangsu DR.GREEN Textile Co., LTD.  
72: QIN, Congcong, QIN, Zisheng, LIU, Wei, ZHANG, Shouyun

#### **54: FIBERGLASS BULKED FILTER CLOTH AND MANUFACTURING METHOD THEREOF**

00: -

The present invention discloses a fiberglass bulked filter cloth and a manufacturing method thereof, the fiberglass bulked filter cloth including a fiberglass bulked warp and a fiberglass bulked weft each including an acidified fiberglass and a hydrophobically modified layer coated on the surface of the acidified fiberglass, and the fiberglass bulked warp and the fiberglass bulked weft being woven in an intersecting manner. The fiberglass bulked filter cloth provided in the present invention uses an acid-washed acidified fiberglass, thereby achieving stable properties and a wide application range. Meanwhile, in the present invention, the surface of the acidified fiberglass is coated with the hydrophobically modified layer, thereby preventing bacteria from proliferating on the surface, achieving an excellent anti-hardening effect. The filtration rate hardly decreases in long-term use, and the filtration rate is high.



21: 2023/09386. 22: 2023/10/09. 43: 2024/04/10  
51: C03C

71: Jiangsu DR.GREEN Textile Co., LTD.  
72: QIN, Congcong, QIN, Zisheng, LIU, Wei, ZHANG, Shouyun

#### **54: HIGH-STRENGTH FIBERGLASS WOVEN CLOTH AND PREPARATION METHOD THEREOF**

00: -

The present invention relates to the technical field of fiberglass woven cloth, and more particularly, to a high-strength fiberglass woven cloth and a preparation method thereof. The high-strength fiberglass woven cloth disclosed in the present invention includes a first flexible layer, a first wear layer, a fiberglass composite base cloth layer, a second wear layer, and a second flexible layer that are laminated successively. The fiberglass composite base cloth layer includes a first fiberglass composite yarn, a second fiberglass composite yarn, and an elastic string inserted therebetween. The first fiberglass composite yarn and the second fiberglass composite yarn are fiberglass-polyimide fiber composite yarns and form a criss-cross mesh structure. Meanwhile, wear layers and flexible layers are added to outer surfaces of the fiberglass composite base cloth layer, so that the elasticity, wear resistance, and comfort of the cloth are improved, and the strength of the cloth is further enhanced.

21: 2023/09387. 22: 2023/10/09. 43: 2024/04/09  
51: A01G

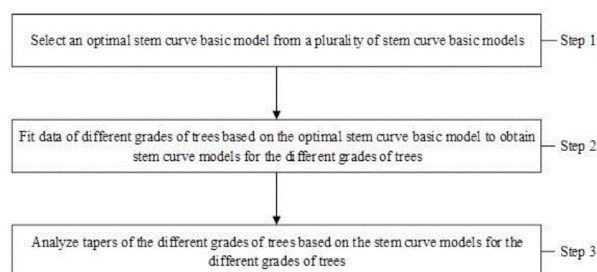
71: Research Institute of Forest Resource Information Techniques, Chinese Academy of Forestry  
72: PANG, Lifeng, FU, Liyong, HUANG, Hongchao, FENG, Linyan, XIE, Dongbo

#### **54: METHOD FOR ANALYZING TREE TAPER BASED ON CONSTRUCTION OF TREE GRADING STEM CURVE**

00: -

The present invention discloses a method for analyzing a tree taper based on the construction of a

tree grading stem curve. The present invention selects an optimal stem curve basic models for different tree species in a selection process and performs fitting according to different tree grades in a fitting process, achieving the analysis of states of different tree species and different tree grades and improving the accuracy of analyzing the tree taper.



21: 2023/09388. 22: 2023/10/09. 43: 2024/04/09  
51: B27N

71: Sichuan Academy of Animal Science

72: Yang JI, Xiaoyu LIANG, Yanan LIU, Liang ZHANG, Yuanbin HU, Linxiang LI, Zhixin YI, Changfeng WU

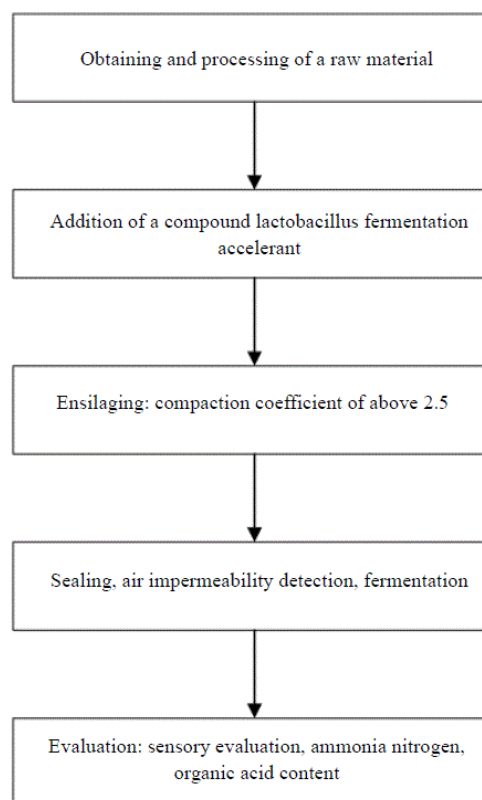
33: CN 31: 2023111017113 32: 2023-08-30

#### **54: HIGH MOISTURE ENSILAGING METHOD FOR PENNISETUM ALOPECUROIDES**

00: -

The present invention discloses a high moisture ensilaging method for *Pennisetum alopecuroides*, including the following steps: (1) obtaining and processing of a raw material: chopping *Pennisetum alopecuroides* into pieces of 1.0 cm to 2.0 cm; (2) addition of a compound lactobacillus fermentation accelerant: controlling a moisture content of the *Pennisetum alopecuroides* silage and adding a compound lactobacillus additive; (3) ensilaging: when ensilaging, compacting the *Pennisetum alopecuroides* silage; (4) sealing: sealing after ensilaging, and detecting air impermeability; fermenting at a temperature of 20 degrees Celsius to 30 degrees Celsius for 45 days to complete ensilaging; and fermenting at 20 degrees Celsius for 60 days to complete ensilaging; and (5) evaluation. The present invention improves the quality of the *Pennisetum alopecuroides* silage, enriches supply sources of high-quality coarse fodder for meat cattle and sheep, facilitates solving the problem of lack of fresh forage grass in winter, further reduces the feeding cost, and promotes efficient utilization of

*Pennisetum alopecuroides* resources and farmer income increase.



21: 2023/09389. 22: 2023/10/09. 43: 2024/04/09  
51: G06Q

71: Urban Vocational College Of Sichuan

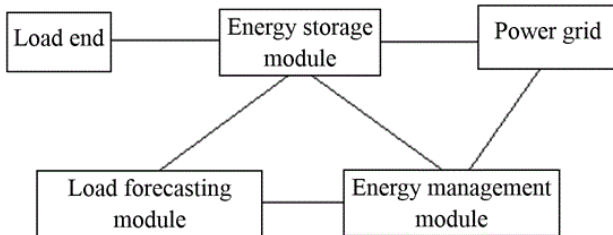
72: LIN Lin, WANG Shunli, CHEN Guo

#### **54: SMART GRID ENERGY STORAGE SYSTEM**

00: -

The application discloses a smart grid energy storage system, which includes an energy storage module, a load forecasting module and an energy management module; the energy storage module is respectively connected with the load forecasting module, the energy management module and the load end, and is used for storing the redundant electric energy of the power grid; the load forecasting module is also connected with the energy management module, and is used for forecasting the electricity consumption of the load side to obtain a load forecasting result; the energy management module is used to control the charging and discharging of the energy storage module based on the load forecasting result. The application can predict the running status of the load and the power

demand of the load system, improve the operating efficiency of the equipment and the utilization efficiency of electric energy, and realize the overall control, coordination and optimization of power generation equipment, power consumption equipment and power consumption quality of the power grid, including intermittent energy generation plan, load power consumption plan, load control, energy storage and the like.



21: 2023/09402. 22: 2023/10/09. 43: 2024/04/10

51: H02H

71: NARAINSAMY, Ashley Clifford

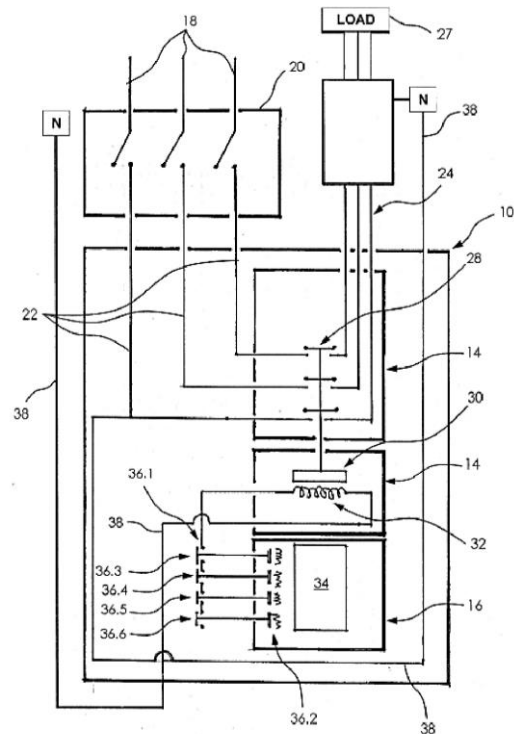
72: NARAINSAMY, Ashley Clifford

33: ZA 31: 2022/03944 32: 2022-10-07

#### **54: ELECTRICAL LOAD SHEDDING PROTECTION SYSTEM**

00: -

The invention relates to a system for protecting against voltage transients in an electrical circuit. The system comprises an incoming electrical supply line that supplies electrical power to an electrical load by means of an outgoing electrical supply line, in which the system includes a secondary contactor, a primary switching circuit, a secondary switching circuit, an electrical current sensor and programmable logic means. The programmable logic means is programmed to monitor the electrical current sensor and to restore electricity supply through the system upon the resumption of electricity supply in the event that an interruption of electricity supply causes a normally open switch in the secondary switching circuit to revert to the open condition of the switch. The programmable logic means is further programmed to re-close and delay the reclosing of the normally open switch in the secondary switching circuit.



21: 2023/09404. 22: 2023/10/09. 43: 2024/04/10

51: A61B

71: Xinjiang Medical University

72: Jiang Hong, Yang Xinling, Zhou Jianmei, Hao Chenguang, Zhang Yufeng, Zhang Shuqi, You Shuping, Zhao Yue, Jiang Xiao'e

33: CN 31: 2023107198101 32: 2023-06-17

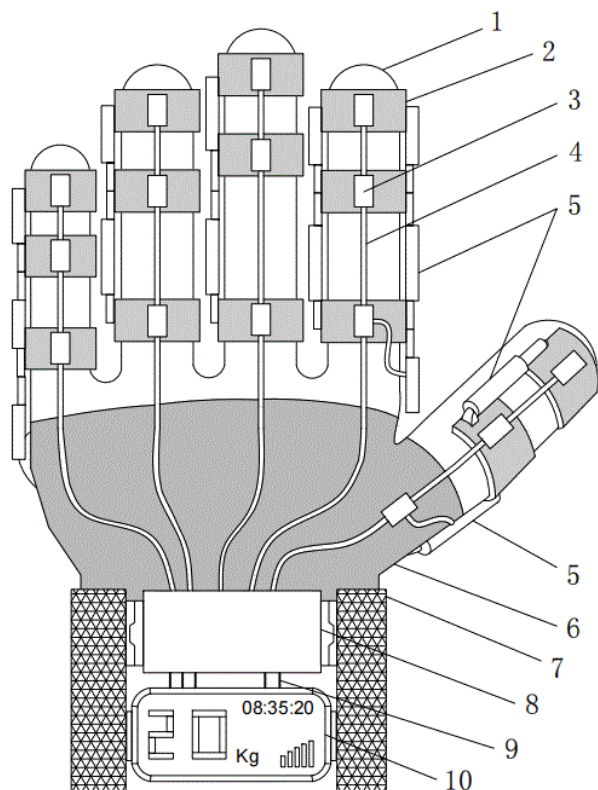
#### **54: GRIP STRENGTH DETECTION GRASPING DEVICE AND A CONTROL METHOD THEREOF**

00: -

The present invention relates to a grip strength detection grasping device and a control method thereof, and the device at least includes finger fasteners, pipe fasteners, fluid pipes, hydraulic telescopic units, a hand protective glove, a wrist band, a hydraulic control unit, control circuits and a wrist watch. Compared with the prior art, the grip strength detection grasping device of the present invention is a grip strength detection device as well as a grasping device. The grasping device can be wore and used anytime and anywhere, and is especially suitable for some patients with hemiplegia and myasthenia, and has higher grip strength detection accuracy using a hydraulic detection method covering all fingers and all digital joints. The finger fastener is in a split structure, which can not only be buckled on the finger to realize disassembly,



but also be hinged to and fix the hydraulic telescopic unit. In addition, intelligent auxiliary training is realized according to a pressure value generated by the user's fist made by an empty hand, such that the patients with hemiplegia and myasthenia, as well as the function of digital joints and muscles can recover as soon as possible, thus improving the efficiency of rehabilitation training and improving the user experience.



21: 2023/09405. 22: 2023/10/09. 43: 2024/04/10  
51: B09C

71: HUNAN VEGETABLE RESEARCH INSTITUTE(HVRI)

72: Zheng Jingyuan, Zhou Shudong, Li Xuefeng, Zhu Chunhui, Li Jie, Luo Meng, Xu Wuyi

33: CN 31: 202211272228.7 32: 2022-10-18

#### **54: METHOD FOR IN-SITU REMEDIATION OF HEAVY METAL-CONTAMINATED SOIL BY CROP INTERPLANTING**

00: -

The invention discloses a method for in-situ remediation of heavy metal-contaminated soil by crop interplanting, which comprises the following steps: firstly, treating the land, namely, uprooting the heavy metal-contaminated soil, then laying a degradable impervious film on the uprooted soil to

prevent the heavy metals from moving down, and then backfilling the uprooted soil and leveling the land; then applying organic fertilizer to the land, ploughing and mixing evenly again, then sowing super-enriched herb seeds, and after the plants grow to a certain extent, strip-uprooting them as planting belts, forming the ridges on the planting belts to plant cash crops, and then performing conventional field management; after the crops are harvested, all the aboveground plants are removed from the field, and the management is completed after 3-5 crops of cash crops are repeatedly interplanted. The plants and cash crops with heavy metal enrichment function are used for interplanting to avoid the accumulation of heavy metals in cash crops, and heavy metals in soil are removed through harvesting to achieve the effect of remediation and ensure the economic benefits.

21: 2023/09406. 22: 2023/10/09. 43: 2024/04/10  
51: F21L

71: Xinyu University

72: Hong Yun, Hu Shaozhong

33: CN 31: 2023111722674 32: 2023-09-12

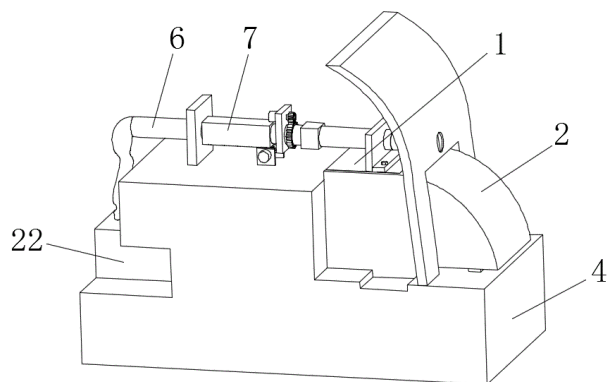
#### **54: AUTOMATIC CONTROL DEVICE FOR CAR LAMPS**

00: -

The present invention discloses an automatic control device for car lamps, and relates to the technical field of car lamps. The device includes a housing, a lampshade and a car body, the housing is fixedly installed in the car body, and the housing and the lampshade are connected via a detachable assembly. During a use of the device, when a driver finds that light has dark spots during driving, the device is started, a second motor drives a rotating rod to rotate, an adapter is driven to move outside the car body under an action of a second transmission assembly, and then a rigid pipe and a nozzle are driven to move synchronously; and when the nozzle moves to positions of two trapezoidal sliders, the two trapezoidal sliders are squeezed to move in opposite directions, the nozzle is extended out of the car body, a water pump and a first motor are started synchronously, the first motor drives a rotating shaft to rotate back and forth, then drives the rigid pipe to rotate back and forth under an action of the first transmission assembly, and cooperates with the water pump to suck water from



a water tank to clean the lampshade, so as to prevent the dark spots of the light from endangering driving safety.



21: 2023/09407. 22: 2023/10/09. 43: 2024/04/16  
51: H02P

71: Baicheng Normal University

72: Li Bing, Zhao Qiang, Gu Lijun, Tang Wanru,  
Zhao Haipeng, Liu Yingxuan

#### **54: ELECTRICAL MACHINE CONTROL SYSTEM BASED ON WIRELESS REMOTE CONTROL**

00: -

The present invention provides an electrical machine control system based on wireless remote control, and relates to the field of electrical machine control systems. The electrical machine control system based on wireless remote control includes a remote control module, an electrical machine control module, a sensor module, a power module, a security module, a database module and a user interface module. According to the present invention, data are encrypted and decrypted by the security module to ensure confidentiality and integrity of the data during data transmission and storage, and power supply required by the system is managed and adjusted by the electrical machine control module to prevent abnormal situations such as overload, overheating and short circuit of an electrical machine.

### **Electrical machine control system**

**Remote control module**

**Electrical machine control module**

**Sensor module**

**Power module**

**Security module**

**Database module**

**User interface module**

21: 2023/09444. 22: 2023/10/10. 43: 2024/04/10  
51: D01F

71: Hainan Tropical Ocean University, Yazhou Bay  
Innovation Institute of Hainan Tropical Ocean  
University

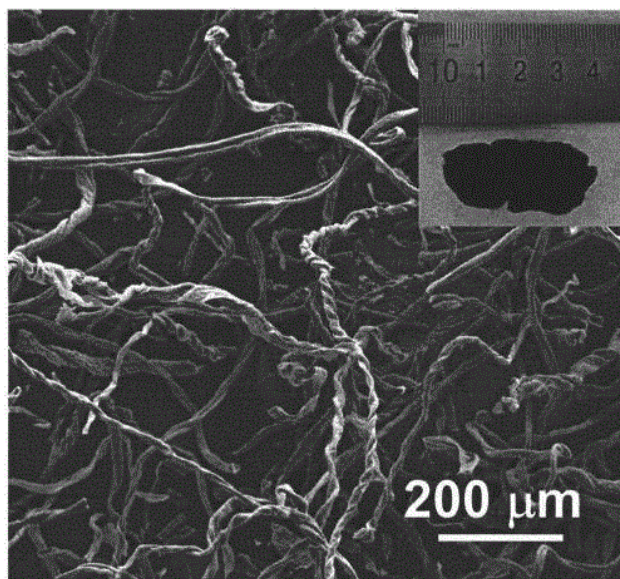
72: WEI Weijie, SHI Yaqin, BAI Shiwei, LI Yu, CHEN  
Qingrong, WANG Yingfei, WAN Wubo, LIN  
Wenqiang, GUO Yaxu, YANG Chun

#### **54: METHOD FOR IMPROVING THE STABILITY OF COTTON CARBON FIBER CATALYSTS**

00: -

The present invention relates to a method for improving the stability of cotton carbon fiber catalysts. The present invention is characterized in that cotton is used as the raw material, and a catalyst precursor is obtained after being treated with a mixture of concentrated sulfuric acid/nitric acid and a metal salt solution. After being calcined under

protective gas, a metal or metal oxide loaded carbon fiber integrated catalyst is obtained. The metal or metal oxide loaded carbon fiber monolithic catalyst prepared by the invention has catalyst particles uniformly dispersed on the surface of carbon fibers and exhibits high catalytic activity and stability. The present invention has the advantages of environmental friendliness, simple process, and easy operation, and the obtained catalyst exhibits good application prospects in the field of water treatment.

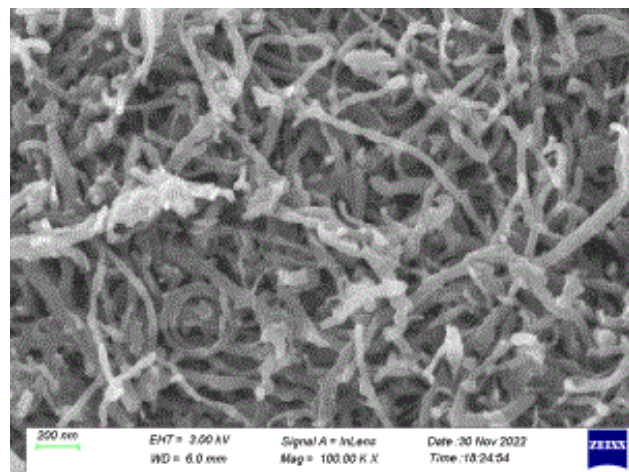


21: 2023/09445. 22: 2023/10/10. 43: 2024/04/10  
51: C01B  
71: East China Jiaotong University  
72: Yi LUO, Chan KE, Ziqiang CHENG, Haoran LIU, Shanchuan CUI, Zhimin LIU  
33: CN 31: 2022117323438 32: 2022-12-30  
**54: A MOLYBDENUM DIPHOSPHIDE-CARBON NANOTUBE COMPOSITE MATERIAL AND ITS PREPARATION METHOD**

00: -

The present invention provides a molybdenum diphosphide-carbon nanotube composite material and a preparation method. The molybdenum diphosphide carbon nanotube composite material includes carbon nanotubes and molybdenum diphosphide generated on the surface of the carbon nanotubes, the preparation method of the molybdenum diphosphide carbon nanotube composite material includes the following steps: including the following steps: s1: the appropriate amount of carbon nanotubes, nano-metal

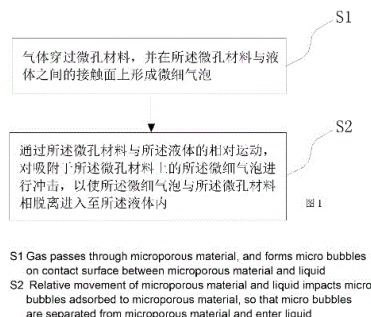
molybdenum powder and red phosphorus powder were ground and mixed; s2: the mixture is pressed under a certain pressure; s3: the mixture after tableting treatment and iodine were vacuum sealed in the reaction vessel, and then the high temperature reaction was carried out. The molybdenum diphosphide-carbon nanotube composite material and its preparation method provided by the invention have the advantages of good crystal quality, good dispersion, high stability, and good conduction electrons, and have broad application prospects in the fields of lithium ion battery and electrocatalysis.



21: 2023/09449. 22: 2023/10/10. 43: 2024/04/11  
51: B01F  
71: MA, Minxiong  
72: MA, Minxiong  
33: CN 31: 202110406058.6 32: 2021-04-15  
**54: MICRO BUBBLE GENERATION METHOD AND GENERATION DEVICE**  
00: -

A micro bubble generation method and generation device. The micro bubble generation method comprises: gas passing through a microporous material, and forming micro bubbles on an interface between the microporous material and a liquid, the bubbles being adsorbed to the surface of the microporous material; a relative movement of the microporous material and the liquid generating a cutting force for impacting the micro bubbles adsorbed to the microporous material, so that the micro bubbles are separated from the microporous material and enter the liquid. The micro bubble generation device comprises a gas accommodating cavity (1) and a gas conveying pipeline (3) that are arranged below the liquid surface. A microporous

material layer (2) is provided on the periphery of the gas accommodating cavity (1). By means of air pressure, gas in the gas accommodating cavity (1) passes through the microporous material layer (2) and forms micro bubbles on the outer surface thereof. The microporous material layer (2) moves and/or liquid on the outer side of the microporous material layer (2) moves, so as to cut the micro bubbles.

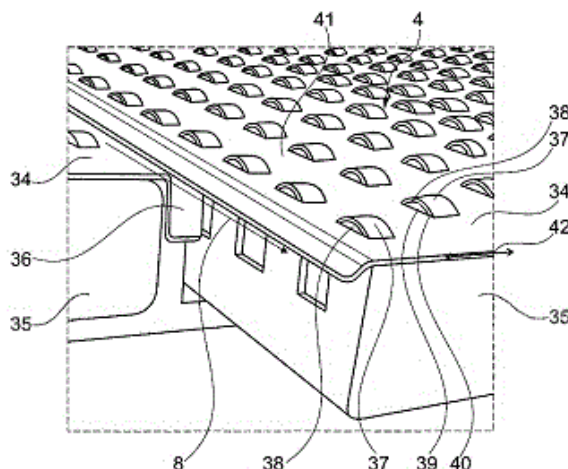


21: 2023/09454. 22: 2023/10/10. 43: 2024/04/10  
 51: H04M; H04W  
 71: PAMA, Thandisizwe Ezwenilethu  
 72: PAMA, Thandisizwe Ezwenilethu  
 33: ZA 31: 2021/01642 32: 2021-03-11  
**54: VISHING DEFENCE METHOD AND SYSTEM**  
 00: -

A computer-implemented method of defending against vishing on mobile phones. The method comprises the steps of directing the mobile phone to treat each incoming call as a trigger to first determine the calling credentials (basically the phone number) of the incoming call. If the calling credentials cannot be determined or are otherwise suspect (basically numbers that do not appear in the mobile phone contact list), the mobile phone monitors for the occurrence of a predetermined vishing procedure, including processing of an OTP; processing a banking app in-app transaction; or voice, keypad or touch screen input of a number that matches a significant number previously stored in the mobile phone, such as a credit card or bank account number. If the execution of such a vishing procedure is detected, the mobile notifies the financial institution associated with the banking app to enable the implementation of appropriate vishing avoidance protocols.

21: 2023/09457. 22: 2023/10/10. 43: 2024/02/13  
 51: F26B  
 71: RWE GENERATION NL B.V.  
 72: EURLINGS, JOHANNES THEODORUS GERARDUS MARIE, DE BEST, CARLO JACOBUS JOHANNES MARIA  
 33: EP 31: 21183993.1 32: 2021-07-06  
**54: WASTE DRYING**  
 00: -

According to the present invention waste (7) is dried by applying the waste (7) to a floor (4) comprising several floor segments (34, 44, 46) and by conveying the waste (7) by a push floor mechanism in which only a part of the floor segments (34, 44, 46) is moved at a time in a direction of movement (8) or a counter direction (61). The energy for drying the waste (7) is provided by warm air (11) through openings (38) in the floor segments (34, 44, 46) from a pressure chamber (3) through the floor (4) into the waste (7) and through the waste (7).

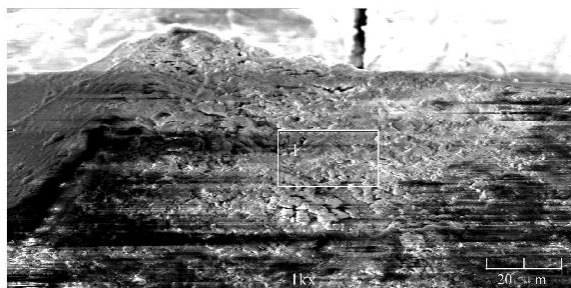


21: 2023/09466. 22: 2023/10/10. 43: 2024/04/10  
 51: C08B; C12N; C22B  
 71: CHINA TIN NONFERROUS METALS CO., LTD., CHINA TIN GROUP CO., LTD.  
 72: TAN, Zongyong, QIN, Zuoming, LIN, Chengxu, ZHAO, Mingyong, TANG, Xiangjun, WANG, Lili, HU, Mingzhen  
 33: CN 31: 202211242468.2 32: 2022-10-11  
 33: CN 31: 202310367804.4 32: 2023-04-07  
 33: CN 31: 202310367797.8 32: 2023-04-07  
**54: PREPARATION METHOD OF IONIC RARE EARTH LEACHING AGENT**  
 00: -

The present application discloses a preparation method of an ionic rare earth leaching agent, which comprises the following steps: (1) domestication



microorganisms with rare earth activated mineral powder culture medium to obtain a microbial suspension; (2) amplifying and culturing the microbial suspension and additives to obtain the amplified culture medium; and (3) mixing the modified sesbania gum with the amplified culture medium to obtain the ionic rare earth leaching agent. In the present application, the activated mineral powder is the active metal-containing mineral powder in nature, which has excellent cation exchange function after activation, and the activated mineral powder and ionic rare earth mineral powder are used as the medium components to domesticate microorganisms, so that microorganisms can survive in the above-mentioned ionic solution and improve the leaching rate of synergistic leaching ionic rare earth.



21: 2023/09467. 22: 2023/10/10. 43: 2024/04/11  
51: B01J; C02F  
71: CHINA TIN NONFERROUS METALS CO., LTD.,  
CHINA TIN GROUP CO., LTD.  
72: HU, Mingzhen, ZHOU, Deyan, NONG, Yongping,  
TAN, Zongyong

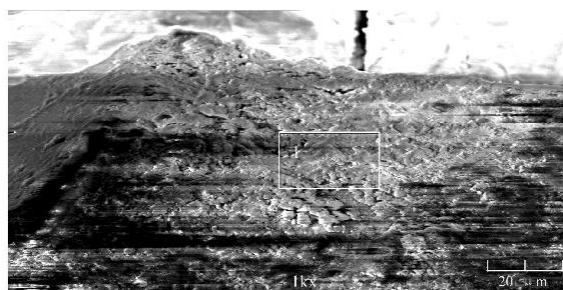
33: CN 31: 202211242468.2 32: 2022-10-11  
33: CN 31: 202310367804.4 32: 2023-04-07  
33: CN 31: 202310367797.8 32: 2023-04-07

#### **54: METHOD FOR PREPARING THE IN<sub>2</sub>SE<sub>3</sub> NANOMATERIALS FOR PHOTOCATALYTIC DEGRADATION OF TETRACYCLINE**

00: -

The present application discloses a preparation method of an ionic rare earth leaching agent, which comprises the following steps: (1) domestication microorganisms with rare earth activated mineral powder culture medium to obtain a microbial suspension; (2) amplifying and culturing the microbial suspension and additives to obtain the amplified culture medium; and (3) mixing the modified sesbania gum with the amplified culture medium to obtain the ionic rare earth leaching agent.

In the present application, the activated mineral powder is the active metal-containing mineral powder in nature, which has excellent cation exchange function after activation, and the activated mineral powder and ionic rare earth mineral powder are used as the medium components to domesticate microorganisms, so that microorganisms can survive in the above-mentioned ionic solution and improve the leaching rate of synergistic leaching ionic rare earth.



21: 2023/09468. 22: 2023/10/10. 43: 2024/04/11  
51: B01J; C01G; C02F; B82Y  
71: CHINA TIN NONFERROUS METALS CO., LTD.,  
CHINA TIN GROUP CO., LTD.  
72: HU, Mingzhen, NONG, Yongping, ZHOU, Deyan,  
WANG, Lili

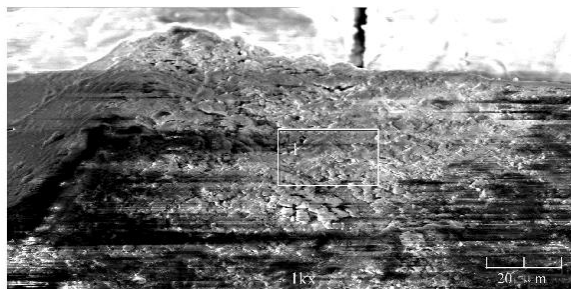
33: CN 31: 202211242468.2 32: 2022-10-11  
33: CN 31: 202310367804.4 32: 2023-04-07  
33: CN 31: 202310367797.8 32: 2023-04-07

#### **54: METHOD FOR PREPARING SHEET TIN DISULFIDE NANOMATERIAL FOR EFFICIENT ADSORPTION OF ORGANIC DYES**

00: -

The present application discloses a preparation method of an ionic rare earth leaching agent, which comprises the following steps: (1) domestication microorganisms with rare earth activated mineral powder culture medium to obtain a microbial suspension; (2) amplifying and culturing the microbial suspension and additives to obtain the amplified culture medium; and (3) mixing the modified sesbania gum with the amplified culture medium to obtain the ionic rare earth leaching agent. In the present application, the activated mineral powder is the active metal-containing mineral powder in nature, which has excellent cation exchange function after activation, and the activated mineral powder and ionic rare earth mineral powder are used as the medium components to domesticate microorganisms, so that microorganisms can survive

in the above-mentioned ionic solution and improve the leaching rate of synergistic leaching ionic rare earth.



21: 2023/09484. 22: 2023/10/11. 43: 2024/04/11  
51: G07F

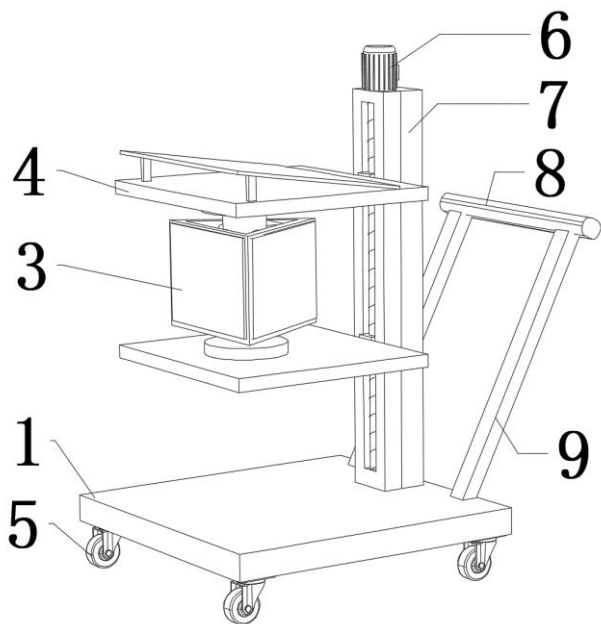
71: Liu Tianji

72: Liu Tianji, Wang Lei

#### **54: NEW MEDIA PUBLICITY DEVICE FOR INNOVATION AND ENTREPRENEURSHIP BY COLLEGE STUDENTS**

00: -

Disclosed is a new media publicity device for innovation and entrepreneurship by college students. The device includes a base, a first supporting column being fixedly connected to a right middle portion of a top of the base, a sliding groove being disposed at an interior of a right side of the first supporting column, and a first sliding block being slidably connected to an upper side of an interior of the sliding groove. In the present invention, two rotary tables rotatably connected between a first supporting plate and a second supporting plate can rotate on the first supporting plate and the second supporting plate, so as to rotate a third supporting column, such that display screen supports fixedly connected to the third supporting column can be rotated, thus realizing multi-angle publicity.



21: 2023/09534. 22: 2023/10/12. 43: 2024/04/12  
51: A61K

71: The Affiliated Hospital of Qingdao University

72: ZHOU Jie, QI Shubin, YIN Qian, GAO Zezheng

#### **54: PHARMACEUTICAL COMPOSITION FOR TREATING CHILDREN'S CHRONIC ALLERGIC RHINITIS AND PREPARATION METHOD THEREOF**

00: -

The invention discloses a pharmaceutical composition for treating children's chronic allergic rhinitis and a preparation method thereof, which includes the following components: 10g of radix astragali preparata, 10g of radix Pseudostellariae, 10g of Atractylodis Macrocephalae, 10g of radix Saposhnikoviae, 6g of Flos Magnoliae, 6g of Radix Angelicae Dahuricae, 6g of Cimicifuga, 6g of cicada slough, 10g of radix Paeoniae Rubra, 10g of mume fructus and 3g of licorice. It is suitable for children with chronic allergic rhinitis. The above-mentioned drugs are combined with pungent-warming and beneficial-promoting products and have effects of cold and warm in parallel, dispersing while astringing, and interdependence between ascending and descending, regulating nutrient qi and defensive qi, and harmonizing yin and yang, so they are adjuvant drugs.

21: 2023/09535. 22: 2023/10/12. 43: 2024/04/12  
51: A61P

71: CHEN, Hailin



72: CHEN, Hailin, CHEN, Lingfeng

**54: MEDICINE FOR RELIEVING POSTOPERATIVE SYNDROME OF RENAL ARTERY EMBOLIZATION**

00: -

Discloses is a medicine for relieving postoperative syndrome of renal artery embolization, including a traditional Chinese medicine composition and an excipient. The traditional Chinese medicine composition includes galangal fruit, dogwood fruits, *Herba Patriniae*, bergamot, ginseng rootlets, ginkgo nuts, *Polyporus umbellatus*, silkworm chrysalis, earthworms, *Acorus tatarinowii*, Indian strawberry, roses, *Eucommia ulmoides*, *Agrimonia pilosa*, dodder seeds, peony root bark, *Angelica sinensis*, *Asparagus fern*, *Petiolus Trachycarpi*, dendrobe, hippocampi, *Panax notoginseng*, geckos, raspberries, the fruit of Cherokee rose, *Cornu Cervi*, *Curcuma radix*, *Vinegar Cyperus*, coltsfoot flowers, membranes of chicken gizzards, *Poria cocos*, greater selaginella, white-stiff silkworms, gorgon fruit, barbed skullcap, ternate buttercup roots, tortoise plastron, turtle shells, and liquorice; the excipient includes cyclodextrin and chitosan. The traditional Chinese medicine composition in the present invention can effectively treat renal cell carcinoma and the pathogenesis of pathological changes of recurrence and metastasis of renal cell carcinoma after surgery.

21: 2023/09536. 22: 2023/10/12. 43: 2024/04/12

51: A61P

71: CHEN, Hailin

72: CHEN, Hailin, CHEN, Lingfeng

**54: TRADITIONAL CHINESE MEDICINE COMPOSITION FOR TREATING POSTOPERATIVE HILAR CHOLANGIOCARCINOMA AND CANCER METASTASIS**

00: -

The present invention discloses a traditional Chinese medicine composition for treating postoperative hilar cholangiocarcinoma and cancer metastasis, which includes the following raw materials: *radix changii*, *radix curcuma*, *cyperus rotundus*, *fructus aurantii immaturus*, *rhizoma chuanxiong*, *alpinia galanga*, *polyporus*, chicken's gizzard membrane, *herba lycopi*, *angelica sinensis*, *rhizoma corydalis*, *rhizoma atractylodis macrocephalae*, *hirudo*, *herba artemisiae scopariae*, *rhizoma arisaematis*, amber, *pheretima*, *lysimum christinae hance*, *radix*

*astragali*, ginseng fibrous root, *cuscuta chinensis*, *gadflies*, *scutellaria barbata*, peach kernels, *lygodium japonicum*, *rhubarb*, *lobelia chinensis*, *rose*, *poria cocos*, fried spina date seeds, *platycladus orientalis*, tortoise plastron, *taxillus chinensis*, and *glycyrrhiza uralensis fisch*. In the present invention, prescriptions are made according to each of the above Chinese herbal medicines to determine the process of diminished transformation and extinction of drug property in the mechanism of the disease and the multi-directional evolution of Qi activity, and finally the cancer cells are rapidly reversed into normal human physiological cells.

21: 2023/09537. 22: 2023/10/12. 43: 2024/04/12

51: A61P

71: CHEN, Hailin

72: CHEN, Hailin, CHEN, Lingfeng

**54: ACUPOINT PATCH FOR TREATING LIVER CIRRHOSIS AND CIRRHOTIC ASCITES AND PREPARATION METHOD THEREOF**

00: -

The present invention discloses an acupoint patch for treating liver cirrhosis and cirrhotic ascites and a preparation method thereof, which falls within the technical field of traditional Chinese medicine. The effective ingredients of the acupoint patch include *fructus citri sarcodactylis*, *fructus aurantii immaturus*, chicken's gizzard membrane, *cyperus rotundus*, *carthami flos*, *herba artemisiae anomalae*, *radix curcuma*, *faeces troglodyteri*, *rhizoma chuanxiong*, *herba lycopi*, *paeoniae radix rubra*, *polyporus*, *cornu bubali*, *herba artemisiae scopariae*, *vaccaria segetalis*, *hirudo*, *lobelia chinensis*, *herba agrimoniae*, *pheretima*, amber, ginseng fibrous root, *gadflies*, *cortex moutan*, *rhizoma curcuma*, *lygodium japonicum*, *rhizoma atractylodis macrocephalae*, fried spina date seeds, *ostreidae*, *tsaoko amomum* fruit, tortoise plastron, and turtle shell. The acupoint patch provided in the present application has a good effect on liver cirrhosis within a short time, and the results are stable and do not lead to disease relapse.

21: 2023/09538. 22: 2023/10/12. 43: 2024/04/12

51: A41D; A61J

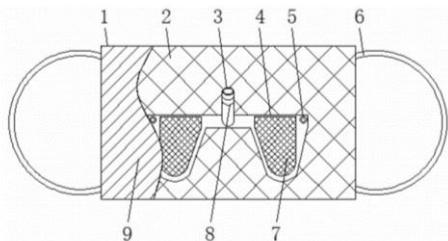
71: THE AFFILIATED HOSPITAL OF GUIZHOU MEDICAL UNIVERSITY

72: ZENG, Xi, CUI, Junshuan, WANG, Xingsong, CAO, Yi, CHEN, Guangtang, SHI, Xueping, FENG, Xiaoyun, SONG, Wenxue, YANG, Yuanmei, WU, Zeya, ZHUO, Yingquan

**54: MASK WITH SPUTUM DISCHARGE FUNCTION AND SPUTUM DISCHARGE METHOD THEREOF**

00: -

Provided are a mask with a sputum discharge function and a sputum discharge method thereof. The mask includes a mask body, a hose, a sputum storage bag and an exhaust pipe, where the mask body consists of a filter layer and a water-absorbing layer in a composition manner, the sputum storage bag is fixedly arranged between the filter layer and the water-absorbing layer, one end of the hose is fixedly connected and communicated with an upper end of the sputum storage bag, a first end of the exhaust pipe is fixedly connected and communicated with an upper end of the sputum storage bag, and an air-permeable shield is fixedly arranged on a second end of the exhaust pipe; a filter and an aspirator are fixedly arranged in the exhaust pipe, and a plurality of ultraviolet disinfection lamps are fixedly arranged on an inner wall of the exhaust pipe.



21: 2023/09539. 22: 2023/10/12. 43: 2024/04/12  
51: G01N

71: Hohai University, THE CIVIL ENGINEERING GROUP CORPORATION OF CHINA CONSTRUCTION SECOND ENGINEERING BUREAU LTD., CHINA CONSTRUCTION SECOND ENGINEERING BUREAU LTD.

72: LIAO Manping, YAO Zaifeng, GAO Lei, HU Xiaochuan, DING Xuezheng

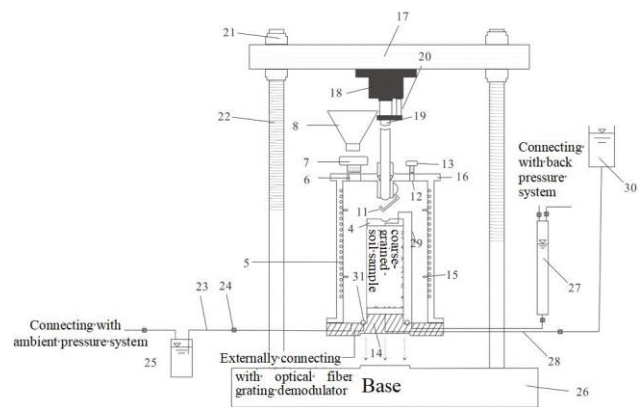
33: CN 31: 2023204647706 32: 2023-03-13

**54: MULTI-FIELD TEMPERATURE TRIAXIAL TEST DEVICE FOR COARSE-GRAINED SOIL**

00: -

The invention discloses a multi-field temperature triaxial test device for coarse-grained soil, which comprises a freeze-thaw cycle module, an axial pressure shearing module and a waterway system;

according to the invention, the vacuum steel cover provided with the heating resistance wire forms the pressure chamber cover of the freeze-thaw cycle module, liquid nitrogen is used for cooling, and the heating resistance wire is used for heating to achieve the effect of controlling the temperature of the pressure chamber, thus effectively simulating the real freeze-thaw environment. By installing a miniature camera on the inner wall of the vacuum steel cover, the deformation state of coarse-grained soil during freezing and thawing and loading can be monitored. The device realizes the real simulation of freeze-thaw cycle of coarse-grained soil and the integration of indoor full-scale triaxial shearing test equipment for coarse-grained soil, and solves the research problem of stress-strain and strength characteristics of coarse-grained soil under freeze-thaw cycle.



21: 2023/09541. 22: 2023/10/12. 43: 2024/04/12  
51: B22F

71: Changzhou Institute of Technology

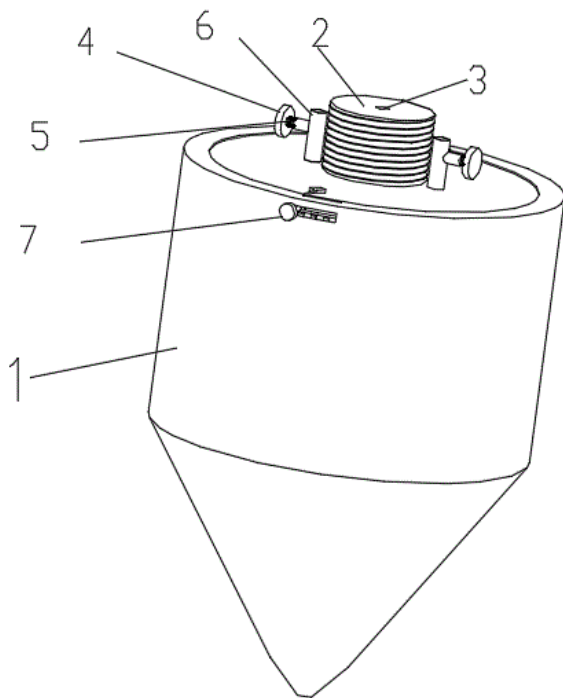
72: Bai Jianhui, Guo Hun, He Yafeng, Xu Bo

**54: LASER 3D PRINTING NOZZLE FOR METAL POWDER**

00: -

Disclosed is a laser 3D printing nozzle for metal powder, falling in the field of 3D printing nozzles, and its technical solution includes a nozzle body, a first fixed round block and a laser channel; specifically, a plurality of protective gas conveying pipes are arranged at a top of the nozzle body, and threaded rods are movably arranged at exteriors of the protective gas conveying pipes; an oscillation cavity is disposed in the nozzle body, an oscillation assembly for the laser channel is arranged in the oscillation cavity, and the oscillation assembly includes a third fixed rod, a fourth fixed round block

and a plurality of groups of fan blades; metal powder conveying pipes are arranged in the nozzle body; and a powder volume adjustment assembly acting on the metal powder conveying pipes is arranged at a top of the nozzle body, and the powder volume adjustment assembly includes second fixed round blocks, telescopic rods, inner connecting rotary rods, second fixed rods and third fixed round blocks. According to the present invention, impurities attached to an inner wall of the laser channel are cleaned by means of the oscillation assembly, and the flow of the metal powder is controlled by means of the powder volume adjustment assembly, which can better improve the utilization rate of the metal powder, and has the characteristic of improving the printing quality and efficiency.



21: 2023/09542. 22: 2023/10/12. 43: 2024/04/12  
51: G01N

71: Xi'an Shiyou University

72: Kang Simin

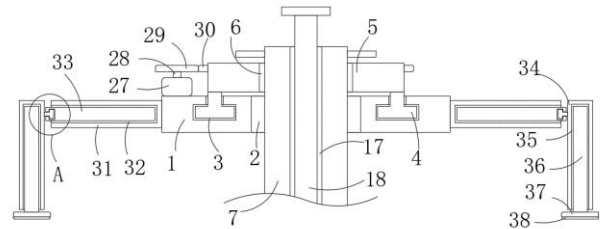
33: CN 31: 202211291316.1 32: 2022-10-19

#### **54: AUTOMATIC TESTING DEVICE FOR BOTTOM PLATES OF OIL STORAGE TANK**

00: -

The present invention discloses an automatic testing device for bottom plates of an oil storage tank, and the device includes a base, specifically, through

holes are disposed on the base; T-shaped annular grooves are disposed on an upper end face of the base, a plurality of arc-shaped blocks with shapes matched with the annular grooves are slidably connected in the annular grooves, the plurality of arc-shaped blocks are fixedly connected to workbenches, threaded grooves opposite to the through holes are disposed on the workbenches, and threaded columns are threadedly connected in the threaded grooves; one end of one of the threaded columns, far away from the base, is fixedly connected to a connecting block, one end of the connecting block, far away from the threaded column, is fixedly connected to a working pipe, a threaded hole is disposed in the working pipe, a threaded rod is threadedly connected in the threaded hole, and one end of the threaded rod, close to the threaded column, is fixedly connected to a square rod. According to the present invention, testing of the bottom plates of the oil storage tank may be completed more comprehensively, so that quality of the testing is ensured.



21: 2023/09545. 22: 2023/10/12. 43: 2024/04/12  
51: E01B

71: PENN-CLARKE, Craig

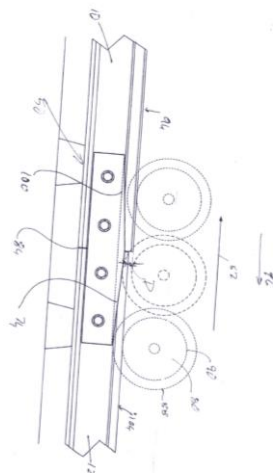
72: PENN-CLARKE, Craig

33: ZA 31: 2022/07748 32: 2022-07-13

#### **54: RAIL JOINT**

00: -

A device which includes a fish plate for mechanically securing a first rail to an abutting second rail and structure which forms at least a first ramp which is configured to engage with a flange of a rail wheel on the second rail thereby to elevate the rail wheel as it moves towards the first rail.



21: 2023/09585. 22: 2023/10/13. 43: 2024/04/15  
51: A61K

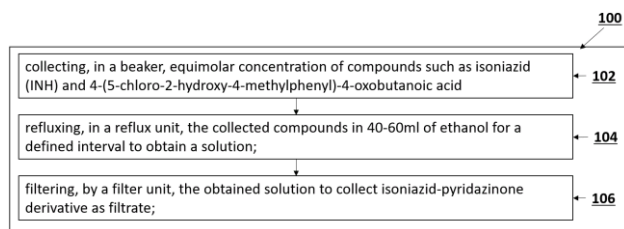
71: Abida Ash Mohd, Mohd Imran, Noura Yousif Alnaser, Shams Saud Altmyat, Northern Border University

72: Abida Ash Mohd, Mohd Imran, Noura Yousif Alnaser, Shams Saud Altmyat

#### **54: COMPOSITION AND METHOD FOR SYNTHESIZING ISONIAZID-PYRIDAZINONE BASED DPRE1 INHIBITORS AS ANTI-TUBERCULAR AGENTS**

00: -

A composition and method (100) for synthesizing isoniazid-pyridazinone based DprE1 inhibitors as anti-tubercular agents, comprises of: collecting 0.005-0.015 mole each of isoniazid (INH) and 4-(5-chloro-2-hydroxy-4-methylphenyl)-4-oxobutanoic acid and refluxing with 40-60ml of ethanol for a defined interval to obtain a solution; and filtering, by a filter unit, the obtained solution to collect isoniazid-pyridazinone derivative as filtrate.



21: 2023/09586. 22: 2023/10/13. 43: 2024/04/15  
51: H04L

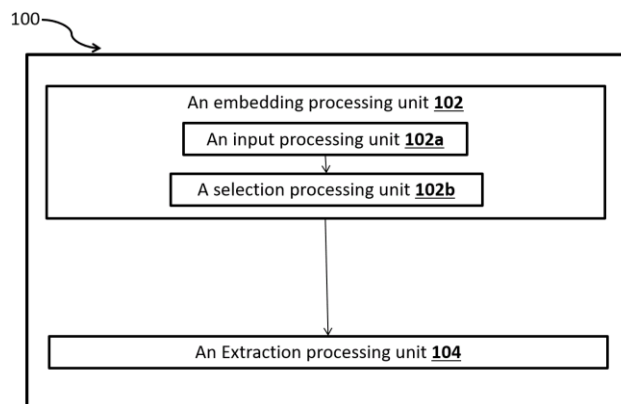
71: Gyankamal J. Chhajed, Dr. Bindu R. Garg, Jitendra B. Chhajed, Neha J. Chhajed

72: Gyankamal J. Chhajed, Dr. Bindu R. Garg, Jitendra B. Chhajed, Neha J. Chhajed

#### **54: A SYSTEM FOR HIDING DATA IN BINARY IMAGES TO PROVIDE SECRET AND SECURE COMMUNICATION**

00: -

The present disclosure relates to a system for hiding data in binary images for providing secret and secure communication of secret message. The proposed data hiding technique provides a new approach to using a decision tree for data hiding in binary images, where a decision tree is used to select an appropriate block for data hiding. In this technique, the LRUD pattern of the 3 × 3 pixel block, is matched with a block of 4-bit encrypted data to be hidden, and it is decided accordingly whether the 3 × 3 pixel block is suitable for data hiding or not. Because the message block is matched to the LRUD patterns of the image blocks and indicator bits, it minimizes distortion. The experimental result shows that the proposed system makes significant use of existing image patterns by flipping very few pixels to hide the entire message, which proves that the technique provides high hiding power with less distortion.



21: 2023/09601. 22: 2023/10/13. 43: 2024/02/13  
51: A61L

71: AALTO UNIVERSITY FOUNDATION SR

72: ROJAS, ORLANDO, AJDARY, RUBINA, MIKKOLA, TOMI, KUULA, JANI, RAUSSI-LEHTO, EIJA

33: FI 31: 20217052 32: 2021-03-16

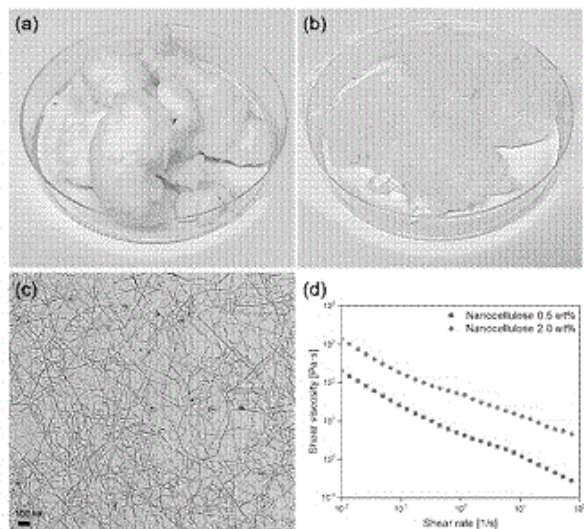
#### **54: A COMPOSITION FOR USE IN THE TREATMENT OF URINARY OR FAECAL INCONTINENCE**

00: -

According to an example aspect of the present invention, there is provided a composition for use in the treatment of urinary or faecal incontinence, the



composition comprising a nanostructured cellulosic material.



21: 2023/10308. 22: 2023/11/06. 43: 2024/03/27

51: H05K

71: SRNE SOLAR CO., LTD

72: LI, Ke, CHEN, Yong

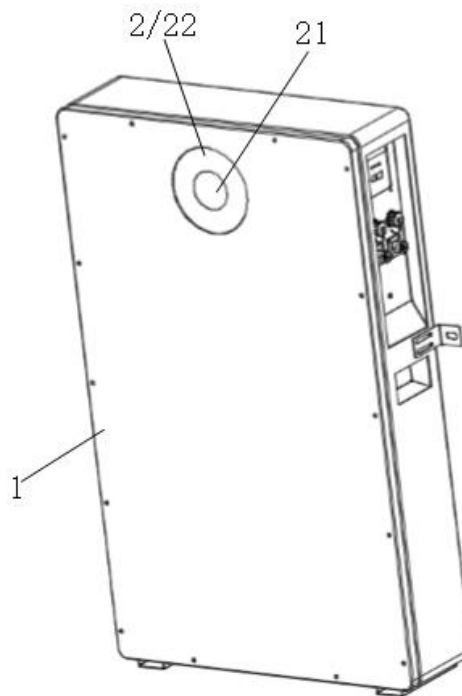
33: CN 31: 202223095733.7 32: 2022-11-21

#### **54: ENERGY STORAGE CASE**

00: -

The present utility model discloses an energy storage case. The energy storage case includes a case housing, a display screen, a plastic protection plate and a wireless transmission module. The case housing is provided with an opening, and the display screen is mounted in the case housing and is located at the opening. The plastic protection plate covers the opening, and the plastic protection plate has a transparent display area and a non-transparent non-display area, and the display area corresponds to the display screen to display the display screen. The wireless transmission module is mounted in the case housing, and the antenna of the wireless transmission module is arranged at the overlapping position between the non-display area of the plastic protection plate and the opening. In the energy storage case of the present utility model, the antenna of the wireless transmission module is arranged at the overlapping position between the non-display area of the plastic protection plate and the opening, so that the case housing can be prevented from isolating the signal of the wireless transmission module, while the plastic protection

plate is not easy to isolate the signal of the wireless transmission module, and the transmission performance of the wireless transmission module can be improved.



21: 2023/10318. 22: 2023/11/06. 43: 2024/04/04

51: G06K

71: ZHEJIANG NORMAL UNIVERSITY

72: ZHU, Xinzhong, XU, Huiying, TANG, Chang, ZHAO, Jianmin

33: CN 31: 202110447625.2 32: 2021-04-25

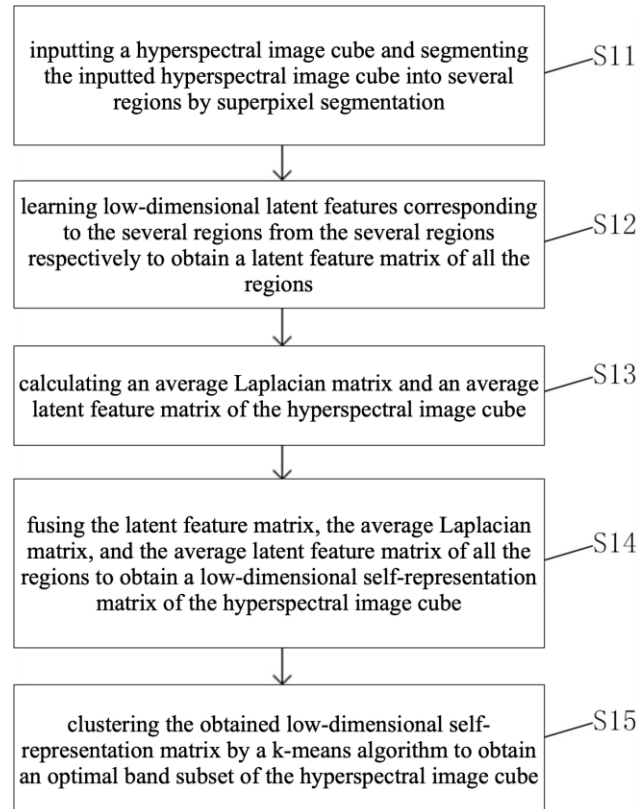
#### **54: HYPERSPECTRAL IMAGE BAND SELECTION METHOD AND SYSTEM BASED ON LATENT FEATURE FUSION**

00: -

The present application discloses a hyperspectral image band selection method and system based on latent feature fusion. The hyperspectral image band selection method based on latent feature fusion comprises: S11, inputting a hyperspectral image cube and segmenting the inputted hyperspectral image cube into several regions by superpixel segmentation; S12, learning low-dimensional latent features corresponding to the several regions from the several regions respectively to obtain a latent feature matrix of all the regions; S13, calculating an average Laplacian matrix and an average latent



feature matrix of the hyperspectral image cube; S14, fusing the latent feature matrix, the average Laplacian matrix, and the average latent feature matrix of all the regions to obtain a low-dimensional self-representation matrix of the hyperspectral image cube; and S15, clustering the low-dimensional self-representation matrix by a k-means algorithm to obtain an optimal band subset of the hyperspectral image cube.



obtaining a plurality of affinity matrices according to self-representation characteristics of the original data; S13, mining a high-order correlation between the plurality of affinity matrices by means of tensor factorization; S14, learning a unified affinity matrix from the plurality of affinity matrices, so as to obtain a global affinity matrix; S15, constructing a hypergraph on the basis of the global affinity matrix, and constraining an incomplete part of incomplete multi-view data by using a hypergraph-induced Laplacian matrix; S16, integrating the global affinity matrix, the tensor factorization and the hypergraph-induced Laplacian matrix constraint into a unified learning framework, so as to obtain an objective function; S17, solving the obtained objective function by means of an alternating iterative optimization strategy, so as to obtain a solution result; and S18, applying spectral clustering to the global affinity matrix according to the obtained solution result, so as to obtain a clustering result.

21: 2023/10319. 22: 2023/11/06. 43: 2024/04/04

51: G06K

71: ZHEJIANG NORMAL UNIVERSITY

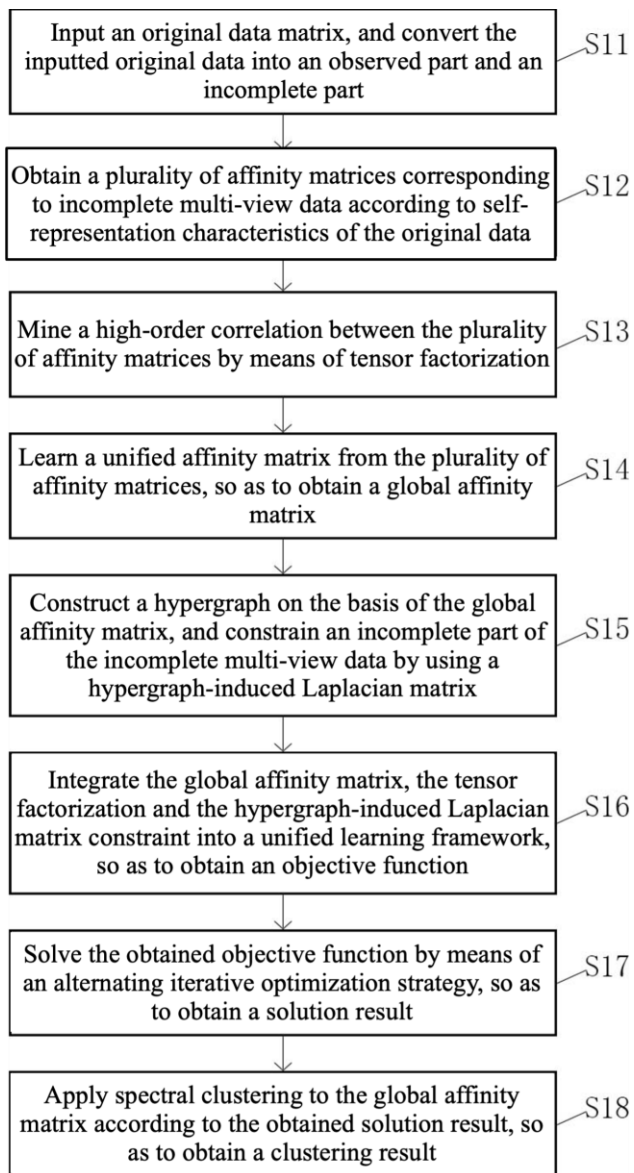
72: ZHU, Xinzhong, XU, Huiying, TANG, Chang, ZHAO, Jianmin

33: CN 31: 202110446987.X 32: 2021-04-25

#### **54: HIGH-ORDER CORRELATION PRESERVED INCOMPLETE MULTI-VIEW SUBSPACE CLUSTERING METHOD AND SYSTEM**

00: -

Disclosed in the present application are a high-order correlation preserved incomplete multi-view subspace clustering method and system. The involved clustering method comprises: S11, inputting an original data matrix, and converting original data into an observed part and an incomplete part; S12,



21: 2023/10324. 22: 2023/11/06. 43: 2024/04/16

51: A61K; C12N

71: QINGDAO RUISIDE BIOLOGICAL TECHNOLOGY CO., LTD.

72: CHEN, Mengmeng, ZHANG, Bingqiang

33: CN 31: 202210579694.3 32: 2023-02-26

#### 54: INDUCER FOR INDUCING DIFFERENTIATION OF MESENCHYMAL STEM CELLS INTO ESTRADIOL-SECRETING CELLS

00: -

The present disclosure belongs to the field of biological medicines, and relates to an inducer for inducing differentiation of mesenchymal stem cells into estradiol-secreting cells. The inducer for inducing differentiation of mesenchymal stem cells into estradiol-secreting cells uses human

mesenchymal stem cell serum-free culture medium as a substrate and comprises the following components in mass concentration ratios: 20-60 mg/L of bone morphogenetic protein-4, 20-60 mg/L of bone morphogenetic protein-7, 2-8 mg/L of retinoic acid, 2-8 mg/L of resveratrol, 2-8 mg/L of icariin, 2-8 µg/L of benzamide, 2-8 µg/L of chloroplatinic acid hexahydrate, 2-8 µg/L of ethanolamine, 2-10 µg/L of erythropoietin and 2-10 µg/L of vascular endothelial growth factor. The inducer for inducing differentiation of mesenchymal stem cells into estradiol-secreting cells provided by the present disclosure has a high induction efficiency.

21: 2023/10602. 22: 2023/11/15. 43: 2024/02/21

51: B01J; C10G

71: CHEVRON PHILLIPS CHEMICAL COMPANY LP

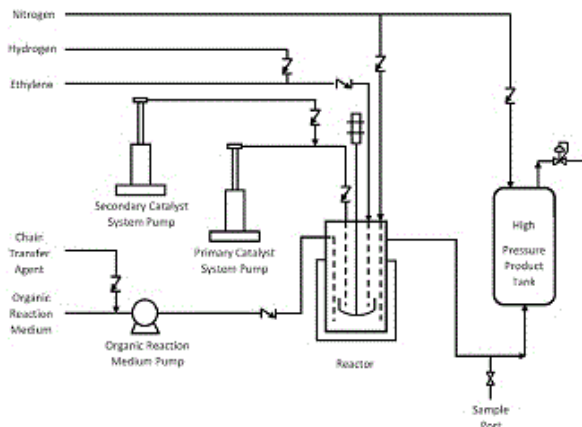
72: SMALL, BROOKE L, SYDORA, ORSON L, KNUDSEN, RONALD D

33: US 31: 17/330,523 32: 2021-05-26

#### 54: ETHYLENE OLIGOMERIZATION PROCESSES

00: -

Process for producing alpha olefins comprising contacting ethylene, a zirconium based catalyst system comprising, a hydrocarbylmetal compound, a chain transfer agent, and optionally an organic reaction medium. Chain transfer agents which can be utilized include a) hydrogen, b) a compound comprising a hydrogen silicon bond, a compound having a hydrogen sulfur bond, a compound having a hydrogen phosphorus bond, or c) a transition metal compound chain transfer agent.



21: 2023/10608. 22: 2023/11/15. 43: 2024/03/27

51: B29C

71: KT PROJEKTENTWICKLUNGS-GMBH

72: TSOUROUKIDOU, Eleni, TSIBERIDIS, Konstantin

**54: TIRE REPAIR APPARATUS FOR ATTACHMENT TO A VEHICLE WHEEL**

00: -

The invention relates to a tire repair device (10) for attachment to a vehicle wheel, which is attached to a vehicle by wheel nuts or wheel bolts (100). The tire repair device (10) comprises: - a carrier element (16), associated with which is a center line (A) and a circumferential direction (U) and which has a side (18) facing the wheel and a side (20) facing away from the wheel; - a compressor (22) attached to the carrier element (16); - a drive mechanism for the compressor (22) which is operationally connected to the compressor (22); - a sealant container (60) for taking up a tire sealant, wherein the compressor (22) is connected in a fluid-conducting manner to the sealant container (60); - a connection line (12), which is configured to be connected in a fluid-conducting manner to the sealant container (60) and to a tire to be repaired; and - a number of sleeve-shaped mounting elements (88), which each have an attachment end (90) and a free end (92), wherein the mounting elements (88) are connected at their attachment end (90) to the carrier element (16) and respectively extend from the side (18) of the carrier element (16) facing the wheel along a longitudinal axis (L) parallel to the center line (A) and are spaced at a distance from one another in the circumferential direction (U), wherein the positions of the sleeve-shaped mounting elements (88) correspond at least approximately to positions of wheel nuts or wheel bolts (100) by means of which the vehicle wheel is attached to the vehicle, and wherein an end section (106) of each sleeve-shaped mounting element (88) adjacent to the free end (92) is configured to retentively engage with a head (104) of a wheel nut or wheel bolt (100).

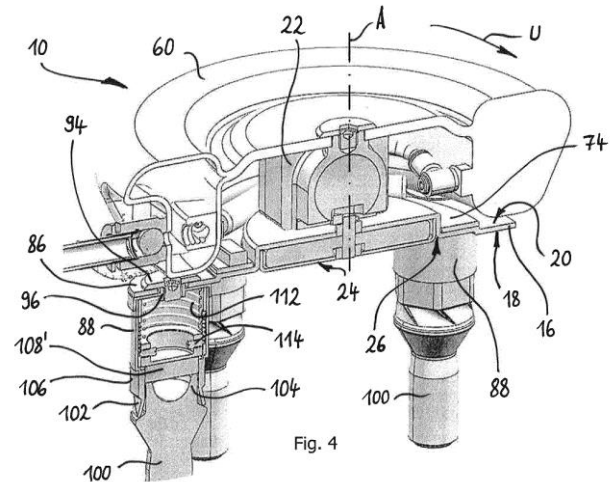


Fig. 4

21: 2023/10619. 22: 2023/11/15. 43: 2024/04/04

51: G06F

71: ZHEJIANG NORMAL UNIVERSITY

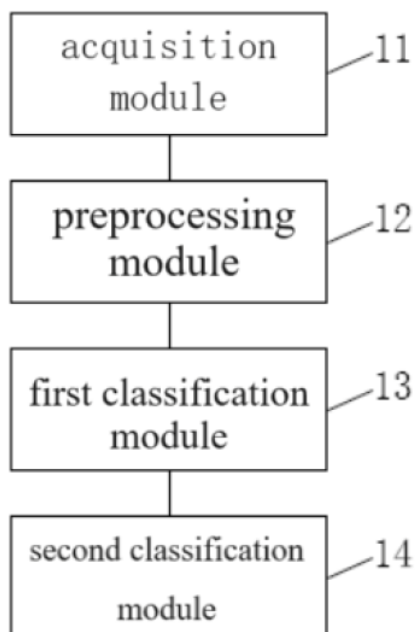
72: ZHU, Xinzong, XU, Huiying, TANG, Chang, ZHAO, Jianmin

33: CN 31: 202110460404.9 32: 2021-04-27

**54: METHOD AND SYSTEM FOR DISCRIMINATING DIGITAL PATHOLOGICAL IMAGES OF COLORECTAL CANCER BASED ON WEAKLY SUPERVISED LEARNING**

00: -

The present disclosure discloses a method and system for discriminating digital pathological images of colorectal cancer based on weakly supervised learning. The system includes an acquisition module, configured to acquire a digital pathology image data set of colorectal cancer; a preprocessing module, configured to preprocess the data in a collected data set to obtain preprocessed data; a first classification module, configured to construct a sampling block discrimination model based on a weakly supervised learning algorithm, and input the preprocessed data into the constructed sampling block discrimination model for processing to obtain a classification result of all pathological image blocks in a Whole slice Bag, and a second classification module, configured to construct a decision fusion model, and input the obtained classification result of the pathological image block into the decision fusion model for fusion processing to obtain a classification result of a Whole slice Image.



21: 2023/11601. 22: 2023/12/18. 43: 2024/04/04  
51: A24F

71: ZHANGJIAGANG ALIEN NEW MATERIAL  
TECHNOLOGY CO., LTD

72: Lin ZHANG

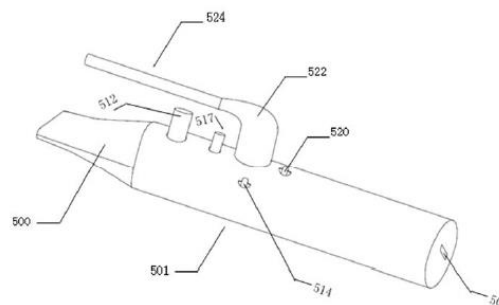
33: CN 31: 202111118288.9 32: 2021-09-24

**54: ELECTRONIC CIGARETTE USED IN  
CONJUNCTION WITH MOUTH AND NOSE**

00: -

An electronic cigarette used by cooperation of mouth and nose, including: mouth suction electronic cigarette module and nasal suction module. The mouth suction electronic cigarette module adopts one of vapor electronic cigarette and heat-not-burn electronic cigarette. The nasal suction module is arranged on outside or inside of the mouth suction electronic cigarette module, and the nasal suction module includes at least one essence carrier (1501). Essence is placed in the essence carrier (1501). According to the electronic cigarette used by cooperation of mouth and nose, the essence can be partially or completely transferred from the mouth suction electronic cigarette module into the nasal suction module, so that the utilization rate of the essence and the transmission efficiency and the discrimination accuracy of the aroma molecules reaching the olfactory nerve of the nasal cavity are improved, and the using risk of the electronic cigarette caused by suction of the essence, the essence solvent, and the essence-related substance

from mouth to lungs is reduced. Moreover, the types of the available essences of the electronic cigarette can be increased by means of the nasal suction module, which further helps to simplify the essence blending technology of cigarette materials such as e-liquid, solid cartridge and cigarette paste.



21: 2023/11603. 22: 2023/12/18. 43: 2024/04/04

51: A24B; A24F

71: ZHANGJIAGANG ALIEN NEW MATERIAL  
TECHNOLOGY CO., LTD

72: Lin ZHANG

33: CN 31: 202110695874.3 32: 2021-06-23

**54: ELECTRONIC ATOMIZATION LIQUID  
COMPOSITION AND PACKAGING CONTAINER  
THEREOF**

00: -

An electronic atomization liquid composition and packaging container thereof are disclosed in the present invention. The electronic atomization liquid composition comprises an e-liquid and an adsorption slow-release carrier in solid state, wherein the adsorption slow-release carrier is located in the e-liquid, and the shape of the adsorption slow-release carrier is at least one of an irregular shape, a spherical shape, a block shape, a granular shape, a columnar shape, a pipe shape, a sheet shape, a letter, a word, a graphic, a symbol, a cartoon, a character, an animal, a plant and a trademark design. In this manner, in the electronic atomization liquid composition and the packaging container thereof of the present invention, the adsorption slow-release carrier adsorbs volatile substances such as essences, cooling agents and nicotine, and then slowly releases same to e-liquid, thereby improving the vaping experience in the middle and late stages. The adsorption slow-release carrier can also adsorb harmful elements such as lead, cadmium, mercury, arsenic, nickel and chromium in the e-liquid, thereby improving the usage safety of electronic cigarettes.



21: 2023/11802. 22: 2023/12/21. 43: 2024/03/27  
51: B22D; C21C

71: WUXI JULI HEAVY INDUSTRY CO., LTD.

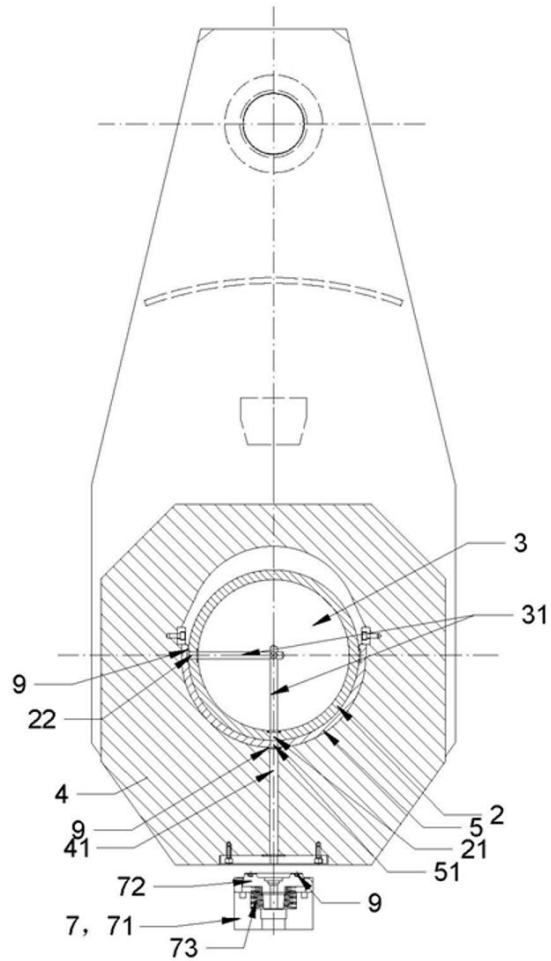
72: HUA, Zhijian

33: CN 31: 202111332349.1 32: 2021-11-11

**54: LADLE WITH A DUAL-PATH LIFTING ARM TYPE AUTOMATIC ARGON GAS JOINT**

00: -

A ladle with a dual-path lifting arm type automatic argon gas joint includes a ladle (1) and a lifting arm (4), with trunnion sleeves (2) installed on both sides of the ladle, trunnions (3) fitted inside the trunnion sleeves, the lifting arm having a through-hole with a lining sleeve (5) installed inside the through-hole, the trunnion sleeve rotatably fitted within the lining sleeve, the lifting arm pressed upon a bearing seat (6), a flat automatic joint (7) installed on the bearing seat, one end of the flat automatic joint connected to the argon gas pipeline (8), the other end connected to the first gas path (41) inside the lifting arm; the first gas path connected to the second gas path (51) inside the lining sleeve; the trunnion sleeve provided with a third gas path (21) and a fourth gas path (22), the third and fourth gas paths forming an angle of 90 degrees centered on the rotation center of the trunnion sleeve, the third and fourth gas paths respectively connected to the sixth gas path (11) inside the ladle through two fifth gas paths (31) on the trunnion. This structure enables the ladle to connect smoothly to the argon gas pipeline even in a maintenance state.



21: 2023/11803. 22: 2023/12/21. 43: 2024/03/27  
51: B66C; F27D

71: WUXI JULI HEAVY INDUSTRY CO., LTD.

72: ZHANG, Fei, WANG, Fengliang

33: CN 31: 202111468841.1 32: 2021-12-04

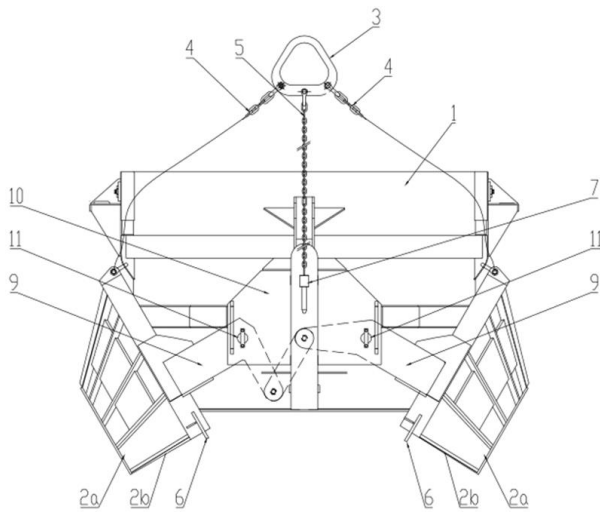
**54: BASKET LOCKING MECHANISM**

00: -

The invention provides a basket locking mechanism that can solve the technical problem of gaps forming due to uneven forces causing the existing tank bottom to open outward. A basket locking mechanism includes a tank body, a tank bottom, a traction suspension frame, and a main chain. The tank bottom includes two tank bottom half-shells distributed on the left and right sides, hinged to the side of the tank body by rotating arms on the front and back sides. The traction suspension frame is connected to the two tank bottom half-shells by two main chains. It is characterized by also including a locking plate, a locking pin, a guide pipe, and a



secondary chain. The locking plate is installed on the splice end face side of the tank bottom half-shell, with a locking hole provided on the locking plate. The locking pin is connected to the traction suspension frame through the secondary chain and is vertically set within the guide pipe. The guide pipe is installed on the rotary support base and is vertical, located above the splice location after the two tank bottom half-shells are closed. When the two tank bottom half-shells are closed, the two locking plates are distributed above and below, and the locking hole is directly aligned with the locking pin.



21: 2023/11804. 22: 2023/12/21. 43: 2024/03/27  
51: C21C; F16L

71: WUXI JULI HEAVY INDUSTRY CO., LTD.

72: ZHANG, Fei, WANG, Fengliang

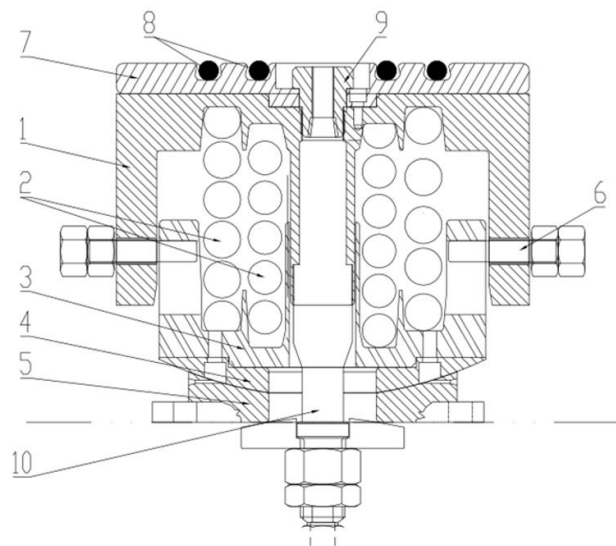
33: CN 31: 202111468842.6 32: 2021-12-04

#### **54: SELF-REGULATING ARGON BLOWING JOINT**

00: -

The invention provides a self-regulating argon blowing joint that can solve the problem of weak sealing and argon gas leakage caused by the inclination of the end face of the upper joint. A self-regulating argon blowing joint includes an upper joint and a lower joint, the lower structure comprising a joint body and a spring, the joint body including a pressing part and a tubular part set in the middle of the bottom of the pressing part, the tubular part forming a lower argon gas passage that penetrates the pressing part, a seal ring installed at the top of the pressing part surrounding the lower argon gas passage, the spring fitted over the outside of the

tubular part, the upper end of the spring abutting the pressing part, characterized in that: the lower joint also includes a spring seat and an adjusting block, the seat body of the spring seat abutting the lower end of the spring, the seat body provided with an upwardly extending lower guide sleeve, the pressing part provided with an upwardly extending upper guide sleeve, the lower guide sleeve and the upper guide sleeve being sleeved together and limited by a vertical limiting structure, the lower part of the seat body being matched with the adjusting block through an arc surface.



21: 2023/11805. 22: 2023/12/21. 43: 2024/04/04  
51: F16M

71: ANQING NORMAL UNIVERSITY

72: WANG, Yuanzhi, ZHANG, Shugang, ZHANG, Xiaoying, ZHANG, Shuyong, LIU, Kui, SHI, Peicheng, WU, Qiong, WEI, Jinzhan, LI, Bohan, WU, Peng, LIU, Deyang, AI, Liefu, ZHANG, Chaolong

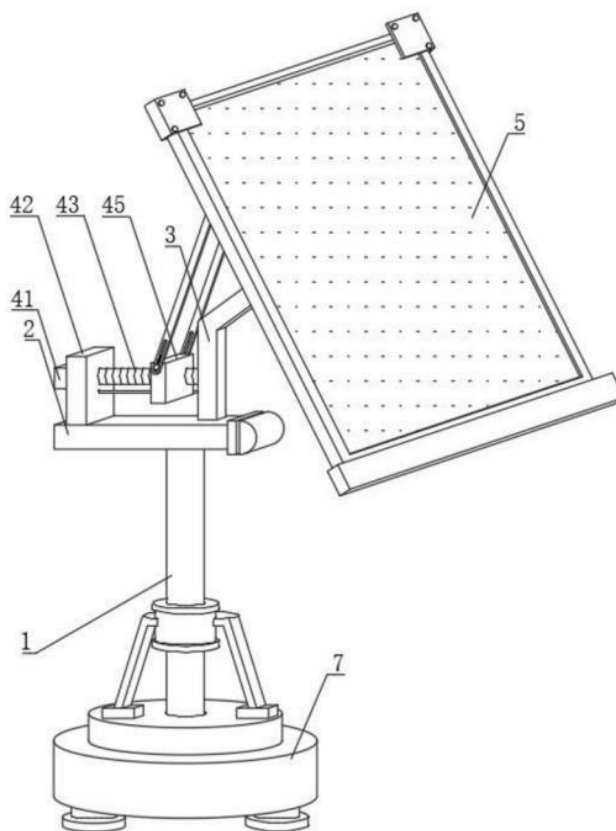
33: CN 31: 202211038009.2 32: 2022-08-26

#### **54: MOUNTING CONNECTING FRAME FOR GRAPHIC IMAGE PROCESSING DEVICE**

00: -

The present disclosure provides a mounting connecting frame for a graphic image processing device, and relates to the field of graphic image processing. The mounting connecting frame for the graphic image processing device includes an upright column. An upper end of the upright column is fixedly connected to a support block. A support column is arranged on one side of an upper end of the support block. An upper end of the support

column is connected to an image display through a mounting mechanism. An adjustment mechanism is arranged on the other side of the upper end of the support block. The adjustment mechanism includes a first motor. The first motor drives a connecting shaft that is fixedly connected to a side end of a screw to rotate. One end of the connecting shaft is connected to a fixed block, and the other end is rotatably connected to the support column. The screw is meshed with a sleeve block. Compensation rods are fixedly connected to a front end and a rear end of the sleeve block. The compensation rods are connected to the interior of a compensation slot in a sliding manner. The compensation slot is a slot formed in a pull rod. The other end of the pull rod is connected to the mounting mechanism by using a hinge spring. The adjustment mechanism is arranged, so that the image display arranged on the mounting mechanism is rotatably adjusted in a vertical direction. This apparatus can adjust a viewing angle of the image display for the heights of different persons, has high adjustment accuracy, and avoids the jolting damage to the image display caused by vibration generated by adjustment.



21: 2023/11806. 22: 2023/12/21. 43: 2024/04/04  
51: D02G

71: ANHUI HANLIAN TOP DYED MELANGE YARN CO., LTD.

72: ZHANG, Yi, ZHANG, Heng, HOU, Shuai, ZHENG, Yang, JI, Kang

**54: ANTIBACTERIAL COLORED SPUN YARN AND COLOR SPINNING PROCESS THEREOF**  
00: -

The present disclosure discloses an antibacterial colored spun yarn and a color spinning process thereof. The antibacterial colored spun yarn comprises cotton fibers, modified fibers, polyester fibers, polynosics and other components. The antibacterial colored spun yarn of the present disclosure is a yarn obtained by combining multiple types of fibers while performing antibacterial modification on bamboo fibers. Not only does the yarn have relatively high product physical property, but also a fabric made of the yarn of the present disclosure has the advantages of excellent antibacterial property, long-lasting antibacterial effect and good washing resistance.

21: 2024/00110. 22: 2024/01/02. 43: 2024/03/27

51: F23L; F28D; F28F

71: ZHEJIANG XINGHE INTELLIGENT DEVELOPMENT TECHNOLOGY CO., LTD.

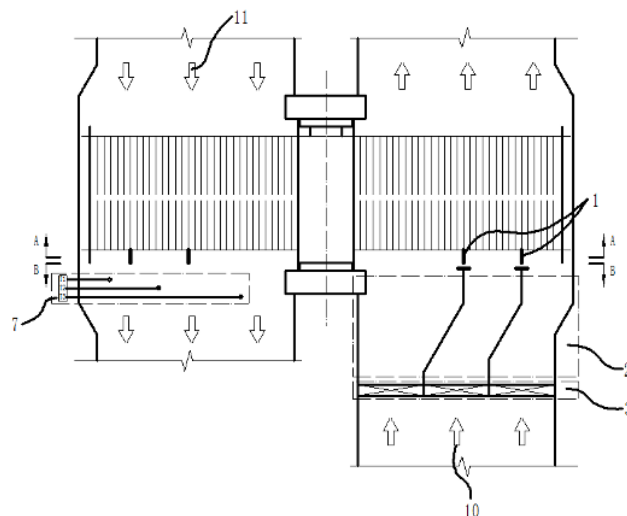
72: SHI, Weiwei, WEI, Hongqi, SHEN, Xiannian

33: CN 31: 202111005676.6 32: 2021-08-30

**54: ANTI-BLOCKING SYSTEM AND ANTI-BLOCKING METHOD BASED ON SPLIT RING ROUND-ROBIN HEATING FOR ROTARY HEAT EXCHANGER**

00: -

Disclosed are an anti-blocking system and an anti-blocking method based on ring-wise round-robin heating for a rotary heat exchanger. A cold end surface of a heat exchanger rotor is divided into N concentric rings by a circumferential partition plate, and N is greater than or equal to 2. N profiled cold medium pipes are arranged at a cold end of at least one cold medium compartment. Each of the profiled cold medium pipes is provided with a fan-shaped opening at a first end thereof and a rectangular opening at a second end thereof. The fan-shaped opening is arranged to correspond to a respective one of the concentric rings. Radial edges on two sides of the fan-shaped opening are respectively connected to side edges of cold-end fan-shaped plates in the respective one of the concentric rings, and a plane at which the fan-shaped opening is located is flush with sealing surfaces of the cold-end fan-shaped plates. The rectangular opening is provided with an automatic adjusting valve configured to adjust a flow of a cold medium, and the flow of the cold medium in each of the profiled cold medium pipes is reduced in a round-robin manner, to increase a wall temperature of heat storage elements in the respective one of the concentric rings, so that condensed or crystallized substances adhering to the heat storage elements are gradually gasified, and are discharged out of the heat exchanger rotor along with a hot medium. Therefore, the problem of blockage and corrosion of the rotary heat exchanger is effectively solved.



21: 2024/00209. 22: 2024/01/05. 43: 2024/03/27

51: B01D

71: China Agricultural University

72: Changwei ZHAO, Jincheng LI

33: CN 31: 2023108097536 32: 2023-07-04

**54: A POSITIVELY CHARGED NANOFILTRATION MEMBRANE FOR REMOVING URANIUM AND CESIUM FROM NUCLEAR RADIOACTIVE WASTEWATER AND ITS PREPARATION METHOD**

00: -

The invention provides a positively charged nanofiltration membrane for removing uranium and cesium from nuclear radioactive wastewater and its preparation method. The nanofiltration substrate membrane is immersed in the aqueous phase solution, and the branched polyethyleneimine is adsorbed on the surface of the nanofiltration substrate membrane. Then, the immersed nanofiltration substrate membrane is taken out and its surface solution is dried by a rubber roller, after that, it is immersed in the organic phase solution, so that the adsorbed branched polyethyleneimine and trimesoyl chloride generate interfacial polymerization reaction to form a polyamide layer. After heat treatment, the formed polyamide layer is further cross-linked and solidified to obtain a pre-modified nanofiltration membrane, which is then placed in the quaternized modified solution for oscillation reaction, in resulting that the H atoms in the primary amine and secondary amine groups of the branched polyethyleneimine are substituted by alkyl to form a quaternary ammonium group with stronger positive charge, which improves the positive charge of the

nanofiltration membrane, and successfully prepares the positively charged nanofiltration membrane with high selectivity or high interception rate for removing uranium and cesium from nuclear radioactive wastewater while maintaining high flux.

21: 2024/00277. 22: 2024/01/08. 43: 2024/04/04

51: C08B; C12N; C22B

71: CHINA TIN NONFERROUS METALS CO., LTD., CHINA TIN GROUP CO., LTD.

72: TAN, Zongyong, QIN, Zuoming, LIN, Chengxu, ZHAO, Mingyong, TANG, Xiangjun, WANG, Lili, HU, Mingzhen

33: CN 31: 202211242468.2 32: 2022-10-11

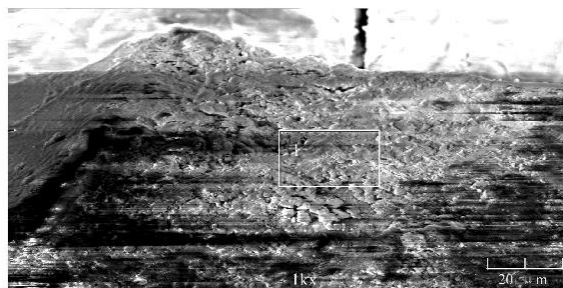
33: CN 31: 202310367804.4 32: 2023-04-07

33: CN 31: 202310367797.8 32: 2023-04-07

#### **54: PREPARATION METHOD OF IONIC RARE EARTH LEACHING AGENT**

00: -

The present application discloses a preparation method of an ionic rare earth leaching agent, which comprises the following steps: (1) domestication microorganisms with rare earth activated mineral powder culture medium to obtain a microbial suspension; (2) amplifying and culturing the microbial suspension and additives to obtain the amplified culture medium; and (3) mixing the modified sesbania gum with the amplified culture medium to obtain the ionic rare earth leaching agent. In the present application, the activated mineral powder is the active metal-containing mineral powder in nature, which has excellent cation exchange function after activation, and the activated mineral powder and ionic rare earth mineral powder are used as the medium components to domesticate microorganisms, so that microorganisms can survive in the above-mentioned ionic solution and improve the leaching rate of synergistic leaching ionic rare earth.



21: 2024/00278. 22: 2024/01/08. 43: 2024/04/04

51: C08B; C12N; C22B

71: CHINA TIN NONFERROUS METALS CO., LTD., CHINA TIN GROUP CO., LTD.

72: HU, Mingzhen, ZHOU, Deyan, NONG, Yongping, TAN, Zongyong

33: CN 31: 202211242468.2 32: 2022-10-11

33: CN 31: 202310367804.4 32: 2023-04-07

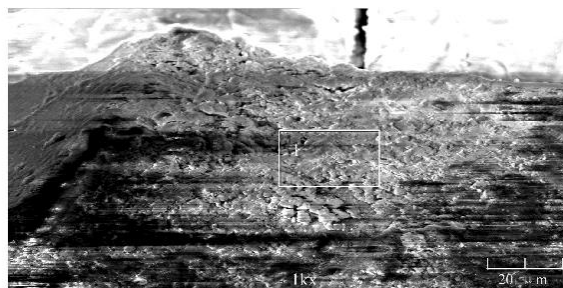
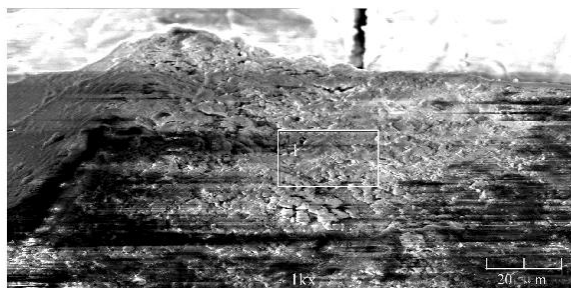
33: CN 31: 202310367797.8 32: 2023-04-07

#### **54: METHOD FOR PREPARING THE IN<sub>2</sub>SE<sub>3</sub> NANOMATERIALS FOR PHOTOCATALYTIC DEGRADATION OF TETRACYCLINE**

00: -

The present application discloses a preparation method of an ionic rare earth leaching agent, which comprises the following steps: (1) domestication microorganisms with rare earth activated mineral powder culture medium to obtain a microbial suspension; (2) amplifying and culturing the microbial suspension and additives to obtain the amplified culture medium; and (3) mixing the modified sesbania gum with the amplified culture medium to obtain the ionic rare earth leaching agent. In the present application, the activated mineral powder is the active metal-containing mineral powder in nature, which has excellent cation exchange function after activation, and the activated mineral powder and ionic rare earth mineral powder are used as the medium components to domesticate microorganisms, so that microorganisms can survive in the above-mentioned ionic solution and improve the leaching rate of synergistic leaching ionic rare earth.





21: 2024/00279. 22: 2024/01/08. 43: 2024/04/04  
51: B01J  
71: CHINA TIN NONFERROUS METALS CO., LTD.,  
CHINA TIN GROUP CO., LTD.  
72: HU, Mingzhen, NONG, Yongping, ZHOU, Deyan,  
WANG, Lili

33: CN 31: 202211242468.2 32: 2022-10-11

33: CN 31: 202310367804.4 32: 2023-04-07

33: CN 31: 202310367797.8 32: 2023-04-07

**54: METHOD FOR PREPARING SHEET TIN  
DISULFIDE NANOMATERIAL FOR EFFICIENT  
ADSORPTION OF ORGANIC DYES**

00: -

The present application discloses a preparation method of an ionic rare earth leaching agent, which comprises the following steps: (1) domestication microorganisms with rare earth activated mineral powder culture medium to obtain a microbial suspension; (2) amplifying and culturing the microbial suspension and additives to obtain the amplified culture medium; and (3) mixing the modified sesbania gum with the amplified culture medium to obtain the ionic rare earth leaching agent. In the present application, the activated mineral powder is the active metal-containing mineral powder in nature, which has excellent cation exchange function after activation, and the activated mineral powder and ionic rare earth mineral powder are used as the medium components to domesticate microorganisms, so that microorganisms can survive in the above-mentioned ionic solution and improve the leaching rate of synergistic leaching ionic rare earth.

21: 2024/00660. 22: 2024/01/18. 43: 2024/02/15  
51: B01D

71: HEGDE, Shreepad

72: HEGDE, Shreepad

33: IN 31: 202141028033 32: 2021-06-22

**54: AN APPARATUS AND PROCESS FOR  
COMPLETE TREATMENT OF SLURRY AND  
POWDER**

00: -

Embodiments of the present invention provide an apparatus (10) and a process for complete treatment of slurry and powder. The apparatus (10) comprises a rotable lower bowl assembly (100); an rotatable upper bowl assembly (200) adapted to be assembled with the lower bowl assembly (100); a drive including atleast a geared motor, connected with each of the lower bowl assembly (100) and the upper bowl assembly (200); and a main frame assembly (300) to movably mount the lower bowl assembly (100) and the upper bowl assembly (200). Herein, the lower bowl assembly (100) and the upper bowl assembly (200) are assembled together to form a spherical bowl assembly in a vertical orientation, on the main frame assembly (300). The spherical bowl assembly (400) receives the slurry for treatment, processes the slurry into a dried product after treatment, and safely discharges the dried product out of the spherical bowl assembly (400).

21: 2024/01864. 22: 2024/03/05. 43: 2024/03/27  
51: A44C; G06K

71: VEGA PAY INFORMATION TECHNOLOGY  
NETWORK SERVICES LLC

72: GAZIN, Aleksei Vladimirovich, TIMOFEEVA,  
Elena Aleksandrovna

33: RU 31: 2021117422 32: 2021-06-16

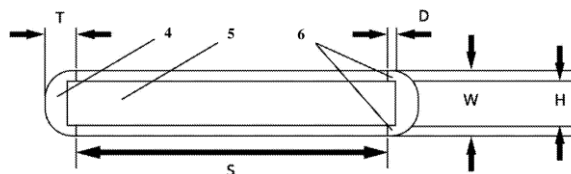
**54: CONTACTLESS RING-SHAPED SMART  
CARD**

00: -

The invention relates to smart cards in the form of rings, operating on the basis of near-field



communication (NFC) technology. The claimed article comprises a loop antenna connected to an NFC microchip on an electrically conductive support, and a single-piece housing having on the side adjacent the wearer's finger a rectangular recess with a height of not more than 5.0 mm and a depth of not more than 1.5 mm for receiving the antenna and the microchip, said recess being hermetically sealed across its height, and the thickness of the protrusions of the housing above the recess being from 1.0 to 1.5 mm. The result is that of reducing the weight and size of a ring having a single-piece housing and a recess on its inner side, while maintaining the performance of the components of the ring and the level of protection of said components against external mechanical effects.



21: 2024/01865. 22: 2024/03/05. 43: 2024/03/14  
51: B24B; B25J

71: Anhui Ruilin Precision Technology Co., Ltd

72: JIANG Aimin, CHU Yafei

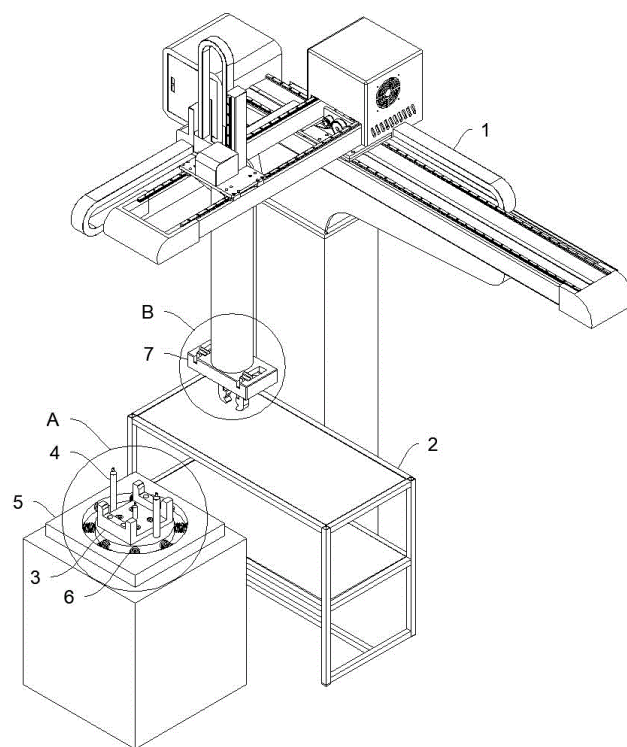
33: CN 31: 2022109890732 32: 2022-08-17

#### **54: AUTOMATIC MATERIAL PREPARATION SYSTEM**

00: -

The invention relates to the technical field of automatic production, and in particular to an automatic material preparation system. The system includes a rack, a handling manipulator, a material table, and a material preparation carrier; the handling manipulator, the material table and the material preparation carrier are all arranged on the rack, the material table and the material preparation carrier are used for holding materials, and the handling manipulator is used for conveying the materials on the material table to the material preparation carrier; it also includes: a displacement compensation device, wherein the displacement compensation device is jointly provided with the material preparation carrier and the handling manipulator, and automatically compensates the position deviation of materials in the horizontal direction caused by the tilt when the handling

manipulator tilts. In this invention, by arranging the guide posts, the guide holes, the base, the sliding table and a plurality of springs, when the handling manipulator tilts, in the process of inserting the guide posts into the guide holes, the sliding table overcomes the elastic force of multiple springs and displaces horizontally, thus compensating the horizontal position deviation of the materials.



21: 2024/01917. 22: 2024/03/07. 43: 2024/04/04  
51: H04N

71: Hainan University

72: Jie CUI, Kuilong WANG, Youliang ZHANG, Kaijian CAI, Chao LI

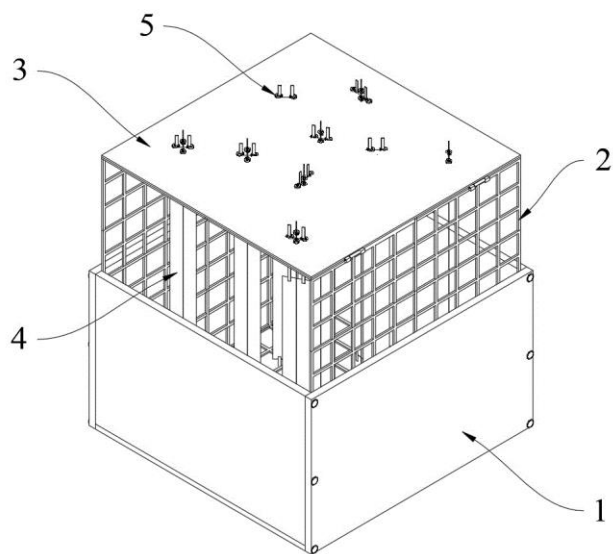
33: CN 31: 2023104451911 32: 2023-04-24

#### **54: APPARATUS AND METHOD FOR PREPARING FLEXIBLE INSERT SAMPLE THAT ACCURATELY CONTROL RANDOM CRACK OPENING**

00: -

The present invention relates to an apparatus and a method for preparing a flexible insert sample that can accurately control a random crack opening. The apparatus for sample preparation includes a sample box, a support frame, a flexible cover plate, a crack sheet assembly, and a fastening clamp. The support frame is disposed in the sample box from an opening on a top side of the sample box. A top of the

support frame is higher than a top of the sample box. The flexible cover plate is laid flat on a top side of the support frame. The crack sheet assembly includes a flexible insert, an upper fastened sheet, and a lower fastened sheet. The flexible cover plate is provided with cracks. The upper fastened sheet of the crack sheet assembly passes through a crack of the flexible cover plate and is clamped and fastened by the fastening clamp, and the lower fastened sheet is fastened on an inner bottom surface of the sample box. The method for sample preparation is operated and completed by using the foregoing apparatus for sample preparation. According to the present invention, a random crack network with different opening states including single cracks and cross cracks is prefabricated in a rock-like material; and unification of apparatuses and methods for sample preparation for cracked rock-like samples with different opening states are implemented, and indoor test results of cracked samples with different openings can be compared.



21: 2024/02002. 22: 2024/03/11. 43: 2024/03/27  
51: B22C

71: Zhongshan City People's Hospital  
72: Linkun Zhong, Jianhang Miao, Bo Xu, Shan Jiang

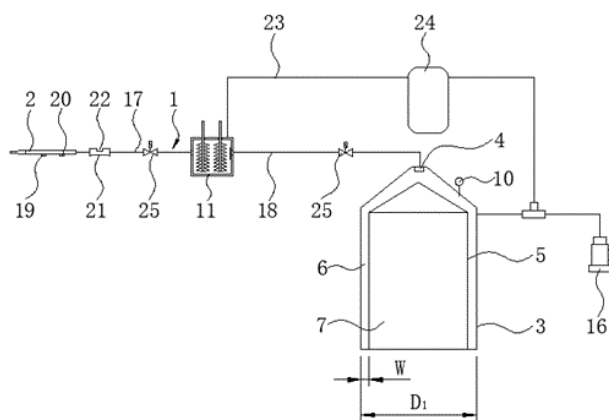
33: CN 31: 202310999808.4 32: 2023-08-10

#### **54: DRAINAGE DEVICE**

00: -

Disclosed is a drainage device, a drainage device, including a drainage pipe and a fluid storage tank, where one end of the drainage pipe is provided with

a drainage head, the fluid storage tank includes a hollow tank body, a fluid inlet is formed at the top of the tank body, the fluid inlet is provided with a one-way valve, the one-way valve is located inside the tank body, and the other end of the drainage pipe is connected to the fluid inlet; a separator is arranged inside the tank body, a fluid inlet cavity is formed between the separator and inner walls of the tank body, and the fluid inlet cavity is communicated with the fluid inlet; and the upper end of the separator is sealed and opposite to the fluid inlet; and an outer wall of the tank body is connected to a negative pressure pump.



21: 2024/02155. 22: 2024/03/18. 43: 2024/03/27  
51: B01D

71: ZHEJIANG ZHIYUAN ENVIRONMENTAL TECHNOLOGY CO., LTD.

72: Huilin LI, Qiqi CHU, Guogan DENG, Jibao ZHU, Guodong AN, Shaojun SHI, Caifang SHEN, Jianfa PAN, Xiufeng JIN, Lijuan WANG

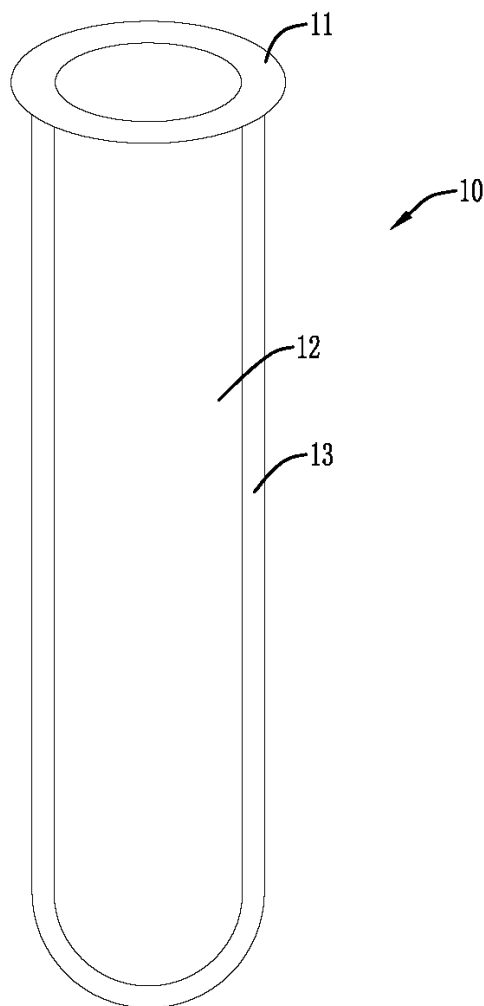
33: CN 31: 202211507981.X 32: 2022-11-29

#### **54: CERAMIC COMPOSITE FIBER CATALYTIC FILTER PIPE FOR DESULFURIZATION, DENITRATION, AND DIOXIN REMOVAL AND PREPARATION METHOD THEREOF**

00: -

The present application discloses a ceramic composite fiber catalytic filter pipe for desulfurization, denitration, and dioxin removal and a preparation method thereof. The ceramic composite fiber catalytic filter pipe for desulfurization, denitration, and dioxin removal comprises: a ceramic composite fiber pipe body and a catalyst formed on the surface of the ceramic composite fiber pipe body, the catalyst is a vanadium-titanium composite oxide. The preparation method thereof comprises

using an artificial intelligence control algorithm based on deep learning to extract global-based multi-scale implicit correlation features of multiple sets of reference data of the slurry as a reference feature matrix, and performing feature query from the reference feature matrix based on the global implicit correlation features of the actual detection data of the slurry, so as to determine a blanking reference value of the slurry of the blank pipe of the ceramic composite fiber catalytic filter pipe for desulfurization, denitration, and dioxin removal. In this way, the blanking reference value can be accurately determined according to the actual parameters of the slurry to improve the efficiency of preparation.



71: CHINA UNIVERSITY OF GEOSCIENCES (BEIJING)

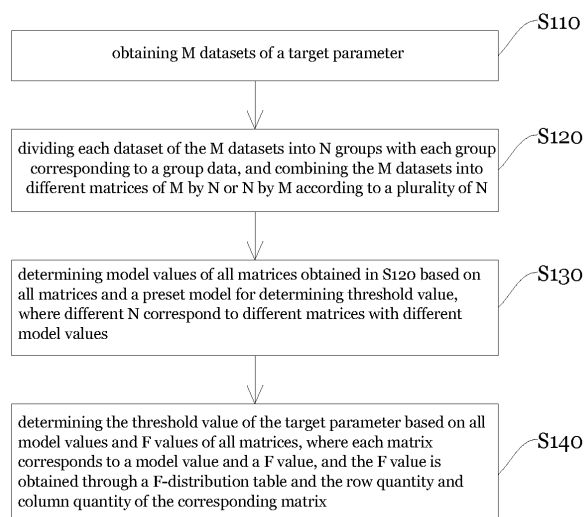
72: YUAN, Tianshu, ZHANG, Jinchuan, YU, Bingsong

33: CN 31: 202310935548.4 32: 2023-07-27

**54: METHOD, DEVICE, EQUIPMENT AND STORAGE MEDIUM FOR DETERMINING THRESHOLD VALUE OF GEOLOGICAL**

00: -

A method for determining a threshold value of a geological parameter are provided by the present application, which includes following steps: firstly, obtaining M datasets of a target parameter; secondly, dividing each dataset into N groups, and combining the M datasets into different matrices according to a plurality of N; thirdly, determining model values of all the matrices according to these matrices and a preset model for determining threshold value; fourthly, determining the threshold value of the target parameter based on all model values and F values of all matrices. By the steps above, the threshold value of geological parameters can be quantitatively and scientifically determined, and the resource calculation error that occurs because the number of sampling data of geological parameter does not reach the threshold value is reduced.



21: 2024/02367. 22: 2024/03/20. 43: 2024/04/04  
51: E21B; G06F

21: 2024/02551. 22: 2024/04/02. 43: 2024/04/04

51: G06T

71: KINGFAR INTERNATIONAL INC.

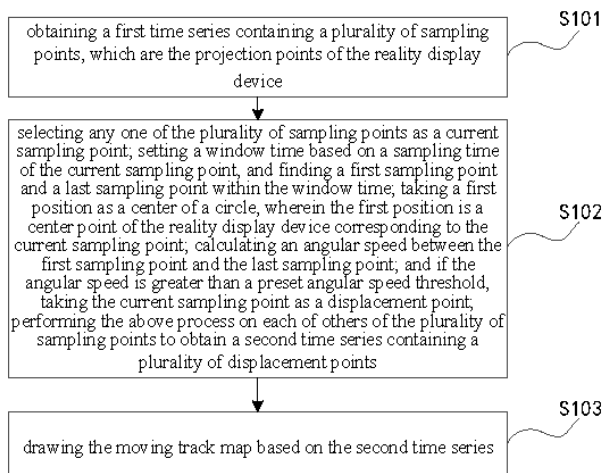
72: ZHAO, Qichao, YANG, Ran

33: CN 31: 202111172921.2 32: 2021-10-08

#### 54: METHOD, APPARATUS, DEVICE, SYSTEM AND STORAGE MEDIUM FOR COLLECTING SPATIOTEMPORAL BEHAVIORS AND GENERATING A SPATIOTEMPORAL BEHAVIOR TRACK

00: -

The present application relates to a method, apparatus, device, system and storage medium for collecting spatiotemporal behaviors and generating a spatiotemporal behavior track. The method includes: obtaining a first time series containing a plurality of sampling points; taking one sampling point as a current sampling point; setting a window time, and finding a first sampling point and a last sampling point within the window time; taking a first position as a center of a circle, which is a center point of the reality display device corresponding to the current sampling point, and calculating an angular speed between the first sampling point and the last sampling point; if the angular speed is greater than a preset angular speed threshold, taking the current sampling point as a displacement point; processing the plurality of sampling points as described above to obtain a second time series; drawing a moving track map.



**HYPOTHECATIONS**

No records available

**JUDGMENTS**

No records available

**OFFICE PRACTISE NOTICES****NOTICE TO IP STAKEHOLDERS/CLIENTS**

Due to Wednesday 29 May 2024 having been declared a public holiday in view of the national elections taking place on that day, kindly note that the publication date for the May 2024 Patent Journal will be **30 May 2024.**

---

**Dennemeyer & Associates Pty Ltd: New Address****OLD ADDRESS**

Hyde Park Corner Offices, Suite 415  
Corner of William Nicol and Jan Smuts Avenue, 2196 Johannesburg, South Africa

**NEW ADDRESS**

Office F11 26 Sturdee Avenue, Rosebank, 2196 Johannesburg, South Africa



## 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 2024/03/25 -

A2024/00297 - DECATHLON Class 21. TENT

- APPLIED ON 2024/03/27 -

F2024/00304 - GREGS BRANDS INTELLECTUAL PROPERTY HOLDINGS COMPANY (PTY) LTD Class 09.  
ENERGY DRINK CONCENTRATE MIXING BOTTLE

A2024/00302 - McCain Foods Limited Class 1. FOOD PRODUCTS

F2024/00305 - GREGS BRANDS INTELLECTUAL PROPERTY HOLDINGS COMPANY (PTY) LTD Class 09.  
ENERGY DRINK CONCENTRATE MIXING BOTTLE

A2024/00303 - McCain Foods Limited Class 1. FOOD PRODUCTS

F2024/00298 - Shaista Gayaram Class 23. SHAI INNOVATIONS - PORTABLE BIDET

A2024/00301 - McCain Foods Limited Class 1. FOOD PRODUCTS

A2024/00300 - OMNI UNITED (S) PTE LTD Class 12. TYRE

A2024/00299 - OMNI UNITED (S) PTE LTD Class 12. TYRE TREAD

- APPLIED ON 2024/04/02 -

A2024/00310 - Tshwane University of Technology Class 2. ACADEMIC GOWNS

A2024/00323 - Tshwane University of Technology Class 2. ACADEMIC GOWNS

A2024/00322 - Tshwane University of Technology Class 2. ACADEMIC GOWNS

A2024/00325 - Tshwane University of Technology Class 2. ACADEMIC GOWNS

A2024/00306 - Gridspertise S.r.l. Class 10. METERS

A2024/00313 - Tshwane University of Technology Class 2. ACADEMIC GOWNS

A2024/00319 - Tshwane University of Technology Class 2. ACADEMIC GOWNS

A2024/00318 - Tshwane University of Technology Class 2. ACADEMIC GOWNS

A2024/00320 - Tshwane University of Technology Class 2. ACADEMIC GOWNS

A2024/00312 - Tshwane University of Technology Class 2. ACADEMIC GOWNS

F2024/00308 - Rocabolt Technologies (Pty) Ltd. Class 8. A STRUCTURAL SPACER MEMBER FOR A ROCK BOLT

A2024/00321 - Tshwane University of Technology Class 2. ACADEMIC GOWNS

A2024/00315 - Tshwane University of Technology Class 2. ACADEMIC GOWNS

A2024/00307 - Escorts Kubota Limited Class 12. TRACTOR FT7110-IIIA OPEN STATION PLATFORM

A2024/00311 - Tshwane University of Technology Class 2. ACADEMIC GOWNS

A2024/00324 - Tshwane University of Technology Class 2. ACADEMIC GOWNS

A2024/00317 - Tshwane University of Technology Class 2. ACADEMIC GOWNS

A2024/00314 - Tshwane University of Technology Class 2. ACADEMIC GOWNS

A2024/00316 - Tshwane University of Technology Class 2. ACADEMIC GOWNS

A2024/00309 - Rocabolt Technologies (Pty) Ltd. Class 9. A BOX AND A BLANK FOR MAKING THE BOX

- APPLIED ON 2024/04/03 -

A2024/00326 - QLOCKTWO License GmbH Class 10. ASTRONOMICAL CLOCKS

F2024/00327 - YOGANATHAN GOVENDER Class 08. PLUNGER

- APPLIED ON 2024/04/04 -

F2024/00328 - HYDROGEN ENERGY APPLICATIONS (PTY) LTD Class 23. GAS DISTRIBUTOR

A2024/00330 - YETI COOLERS, LLC Class 7. ICE TRAY

A2024/00331 - YETI COOLERS, LLC Class 7. ICE TRAY

F2024/00329 - HYDROGEN ENERGY APPLICATIONS (PTY) LTD Class 9. CLOSURE MEANS

- APPLIED ON 2024/04/05 -

A2024/00334 - B. BRAUN MELSUNGEN AG Class 09. BOTTLE

F2024/00332 - AQUIRIAN TECHNOLOGY PTY LTD Class 13. CABLE MARKER

A2024/00338 - B. BRAUN MELSUNGEN AG Class 09. BOTTLE

A2024/00336 - B. BRAUN MELSUNGEN AG Class 09. BOTTLE

A2024/00342 - R.J. Goldspink Pty Limited Class 10. MOVEMENT MONITORS

A2024/00340 - B. BRAUN MELSUNGEN AG Class 09. BOTTLE

A2024/00335 - B. BRAUN MELSUNGEN AG Class 09. BOTTLE

A2024/00341 - B. BRAUN MELSUNGEN AG Class 09. BOTTLE

A2024/00339 - B. BRAUN MELSUNGEN AG Class 09. BOTTLE

A2024/00337 - B. BRAUN MELSUNGEN AG Class 09. BOTTLE

A2024/00333 - B. BRAUN MELSUNGEN AG Class 09. BOTTLE

. - APPLIED ON 2024/04/08 -

F2024/00343 - RUSTAMJON MUSAV Class 09. AN ICE-CREAM CUP

F2024/00345 - COCHRANE STEEL PRODUCTS (PTY) LTD Class 06. BOTTLE HOLDER

A2024/00344 - COCHRANE STEEL PRODUCTS (PTY) LTD Class 06. BOTTLE HOLDER

. - APPLIED ON 2024/04/09 -

A2024/00349 - HUBBLE ENERGY (PTY) LTD Class 13. BATTERY ENCLOSURE

F2024/00348 - HUBBLE ENERGY (PTY) LTD Class 13. BATTERY ENCLOSURE

A2024/00347 - HUBBLE ENERGY (PTY) LTD Class 13. BATTERY ENCLOSURE

F2024/00346 - HUBBLE ENERGY (PTY) LTD Class 13. BATTERY ENCLOSURE

. - APPLIED ON 2024/04/10 -

F2024/00355 - VICTAULIC COMPANY Class 23. GASKET

F2024/00356 - VICTAULIC COMPANY Class 23. GASKET

F2024/00353 - Super Telecom Co., Ltd. Class 10. ELECTRICITY METERS

F2024/00351 - VICTAULIC COMPANY Class 23. GASKET

F2024/00354 - VICTAULIC COMPANY Class 23. GASKET

A2024/00350 - HYUNDAI MOTOR COMPANY, KIA CORPORATION Class 12. AUTOMOBILE

F2024/00352 - VICTAULIC COMPANY Class 23. GASKET

. - APPLIED ON 2024/04/11 -

A2024/00360 - YETI COOLERS, LLC Class 7. CUP

F2024/00357 - OCIN PRODUCTS, S.L Class 12. SPARE WHEEL COVER

A2024/00358 - YETI COOLERS, LLC Class 7. CUP

A2024/00361 - YETI COOLERS, LLC Class 7. CUP

A2024/00359 - YETI COOLERS, LLC Class 7. CUP

A2024/00362 - UNILEVER GLOBAL IP LIMITED Class 9. JAR

. - APPLIED ON 2024/04/12 -

A2024/00363 - Honda Motor Co., Ltd. Class 12. MOTORCYCLES

A2024/00364 - Mpho Mothelesi Class 02. SOUL REGALO

- APPLIED ON 2024/04/15 -

A2024/00365 - GREENLIGHT PLANET INCORPORATED Class 13. AN INVERTER

A2024/00366 - GREENLIGHT PLANET INCORPORATED Class 13. A POWER CONTROL UNIT

- APPLIED ON 2024/04/16 -

A2024/00368 - HALEWOOD SALES LIMITED Class 09. BEVERAGE BOTTLES

A2024/00367 - ORKLA HEALTH AS Class 24. TEETHING RING

A2024/00371 - DICK, James Quinton Cameron, WRIGHT, Brennan Kevin Class 09. PLANT PROPAGATION APPARATUS

A2024/00369 - ORKLA HEALTH AS Class 24. TEETHING RING

A2024/00372 - ORKLA HEALTH AS Class 24. TEETHING RING

A2024/00370 - ORKLA HEALTH AS Class 24. TEETHING RING

- APPLIED ON 2024/04/17 -

A2024/00374 - FERRARI S.P.A. Class 12. CAR

A2024/00375 - FERRARI S.P.A. Class 21. TOY CAR

F2024/00373 - DICK, James Quinton Cameron, WRIGHT, Brennan Kevin Class 09. PLANT PROPAGATION APPARATUS

- APPLIED ON 2024/04/18 -

F2024/00377 - TALYA NECHAMA LEVIN Class 24. WHEELED WALKING AID

A2024/00376 - Letaba Kwekery (Pty) Ltd Class 32. LETABA NURSERY LOGO

- APPLIED ON 2024/04/19 -

F2024/00380 - Katlego Masibi Class 20. TAXI DRINK BOX

A2024/00379 - OMNI UNITED (S) PTE LTD Class 12. TIRE SIDEWALL

A2024/00378 - ETA SA MANUFACTURE HORLOG?RE SUISSE Class 3. WATCH CASE

### 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



No records available

**APPLICATION TO CORRECT AND/OR AMEND DESIGNS APPLICATION OR REGISTRATION**

No records available

**NOTICE OF REGISTRATION OF DESIGNS**

Notice of registration of the designs mentioned below has been issued by the Registrar of Designs in terms of the Designs Act, 1993 (Act No. 195 of 1993)

**INSPECTION OF DESIGNS**

A design application, may after a notice of registration has been published, be inspected during office hours at the Designs Office, Pretoria, at a charge of R3, 00

**COPIES OF DOCUMENTS**

The Designs Office, Private Bag X400, Pretoria, supplies photocopies of all design documents at R1, 00 per page.

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.

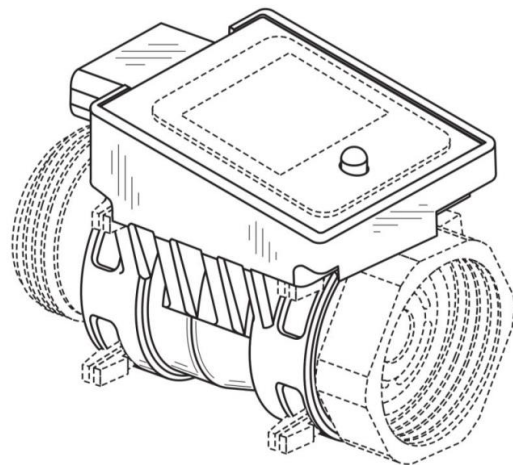
**Registrar of Designs**

21: A2022/00059 22: 2022-01-21 23:  
43: 2022-08-08  
52: Class 10 24: Part A  
71: INTELLIGENT AGRICULTURAL SOLUTIONS  
LLC

33: US 31: 29/800,668 32: 2021-07-22

**54: SPRAY SENSOR**

57: The design is applied to a spray sensor. 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 spray sensor, substantially as illustrated in the accompanying representation. Features shown in broken lines do not form part of the design and are disclaimed.



LEFT FRONT PERSPECTIVE VIEW

21: A2022/00060 22: 2022-01-21 23:

43: 2024-03-15

52: Class 14 24: Part A

71: INTELLIGENT AGRICULTURAL SOLUTIONS LLC

33: US 31: 29/800,470 32: 2021-07-21

**54: SET OF DISPLAY SCREENS OR PORTION THEREOF WITH A GRAPHICAL USER INTERFACE**

57: The design is applied to a set of display screens or portion thereof with a graphical user interface.

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 set of display screens or portion thereof with a graphical user interface, substantially as illustrated in the accompanying representation. Features shown in broken lines do not form part of the design and are disclaimed.

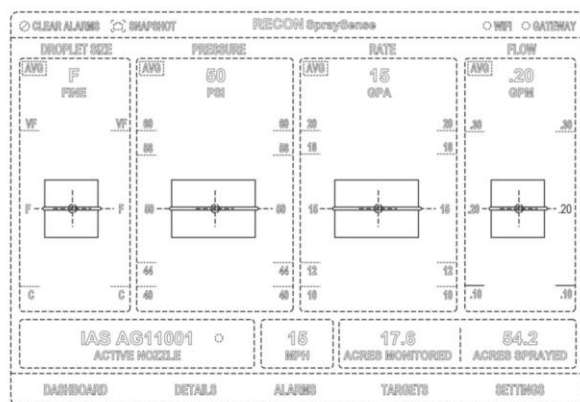


FIGURE 2: SECOND VIEW

21: A2022/00061 22: 2022-01-21 23:

43: 2024-03-15

52: Class 14 24: Part A

71: INTELLIGENT AGRICULTURAL SOLUTIONS LLC

33: US 31: 29/800,470 32: 2021-07-21

**54: SET OF DISPLAY SCREENS OR PORTION THEREOF WITH A GRAPHICAL USER INTERFACE**

57: The design is applied to a set of display screens or portion thereof with a graphical user interface.

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 set of display screens or portion thereof with a graphical user interface, substantially as illustrated in the accompanying representation. Features shown in broken lines do not form part of the design and are disclaimed.

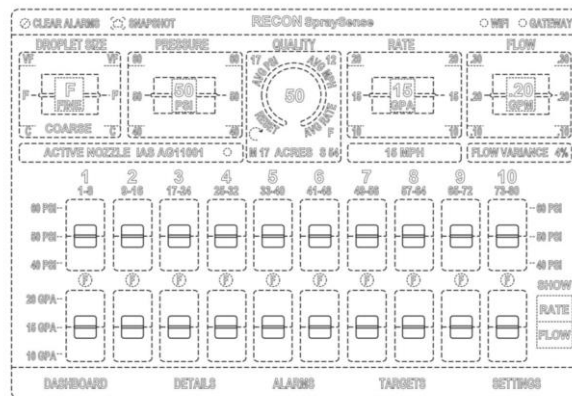


FIGURE 2: SECOND VIEW

21: A2022/00062 22: 2022-01-21 23:

43: 2024-03-15

52: Class 14 24: Part A

71: INTELLIGENT AGRICULTURAL SOLUTIONS LLC

33: US 31: 29/800,470 32: 2021-07-21

**54: SET OF DISPLAY SCREENS OR PORTION THEREOF WITH A GRAPHICAL USER INTERFACE**

57: The design is applied to a set of display screens or portion thereof with a graphical user interface.

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 set of display screens or portion thereof with a graphical user interface, substantially as illustrated in the accompanying representation. Features shown in broken lines do not form part of the design and are disclaimed.

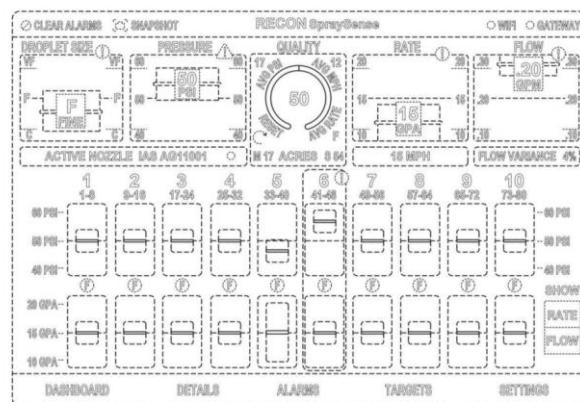


FIGURE 2: SECOND VIEW

21: A2022/00063 22: 2022-01-21 23:

43: 2024-03-15

52: Class 14 24: Part A

71: INTELLIGENT AGRICULTURAL SOLUTIONS LLC

33: US 31: 29/800,470 32: 2021-07-21

**54: SET OF DISPLAY SCREENS OR PORTION THEREOF WITH A GRAPHICAL USER INTERFACE**

57: The design is applied to a set of display screens or portion thereof with a graphical user interface. 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 set of display screens or portion thereof with a graphical user interface, substantially as illustrated in the accompanying representation. Features shown in broken lines do not form part of the design and are disclaimed.

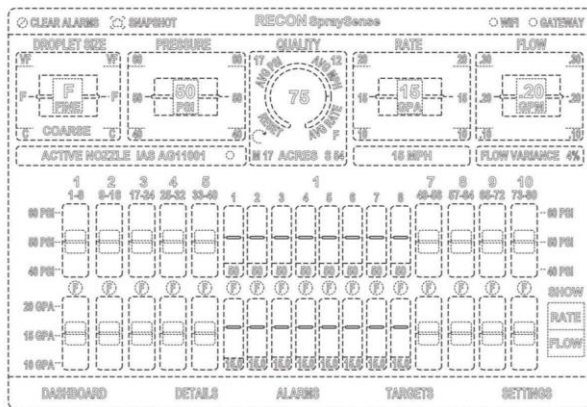


FIGURE 1: FIRST VIEW

21: A2022/00245 22: 2022-03-11 23:

43: 2024-03-19

52: Class 12 24: Part A

71: COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN

33: US 31: 29/807458 32: 2021-09-12

**54: TYRE**

57: The design is to be applied to a tyre. 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.



FRONT RIGHT PERSPECTIVE VIEW

21: A2023/00163 22: 2023-02-06 23:

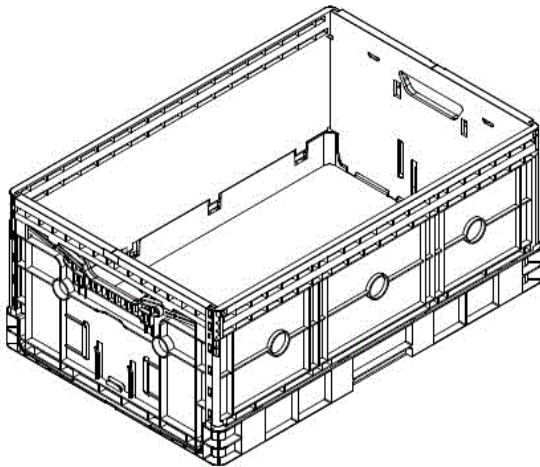
43: 2024-02-09

52: Class 9 24: Part A

71: MPact Plastic Containers Proprietary Limited

**54: CRATES**

57: The design relates to a crate as shown in the accompanying representations. The crate is open-topped and has a generally rectangular shape in an erected configuration of the crate and comprises a base wall, a pair of opposite side walls and a pair of opposite end walls. The crate is collapsible when not in use, with the end walls and the side walls being hinged foldable onto the base wall forming a compact space-saving arrangement. Handles with associated latching mechanisms are mounted to external sides of the end walls. The underside of the base wall has a centrally-positioned inner rectangular grid pattern and an outer grid pattern surrounding the inner grid pattern.



Three-dimensional view from top

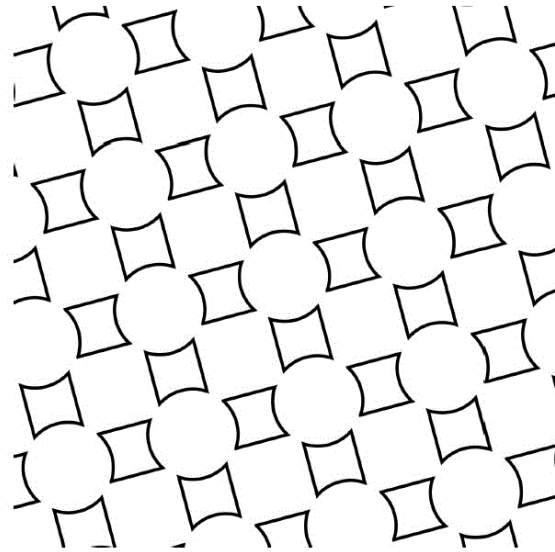


Figure 1

Front view

21: A2023/00249 22: 2023-02-22 23:  
43: 2022-08-23  
52: Class 32 24: Part A  
71: QLOCKTWO License GmbH  
33: EM(DE) 31: 009155153-0001 32: 2022-08-23

**54: SURFACE PATTERNS**

57: The design is a regular pattern of graphical elements each having the shape of an hourglass. Each graphical element has a circumference with two straight sections on opposite sides and with two inwardly curved sections on opposite sides. The graphical elements are arranged such that four straight sections of neighboring graphical elements create the visual impression of a square, and such that four inwardly-curved sections of neighboring graphical elements create the visual impression of a circle. The dimensions and arrangement of the graphical elements are selected such that the surface areas of the squares and circles are the same.

21: A2023/00250 22: 2023-02-22 23:  
43: 2022-08-23  
52: Class 32 24: Part A  
71: QLOCKTWO License GmbH  
33: EM(DE) 31: 009155153-0005 32: 2022-08-23

**54: SURFACE PATTERNS**

57: The design is a regular pattern of graphical elements each having the shape of an hourglass. Each graphical element has a circumference with two straight sections on opposite sides and with two inwardly curved sections on opposite sides. The graphical elements are arranged such that four straight sections of neighboring graphical elements create the visual impression of a square, and such that four inwardly-curved sections of neighboring graphical elements create the visual impression of a circle. The dimensions and arrangement of the graphical elements are selected such that the surface areas of the squares and circles are the same.



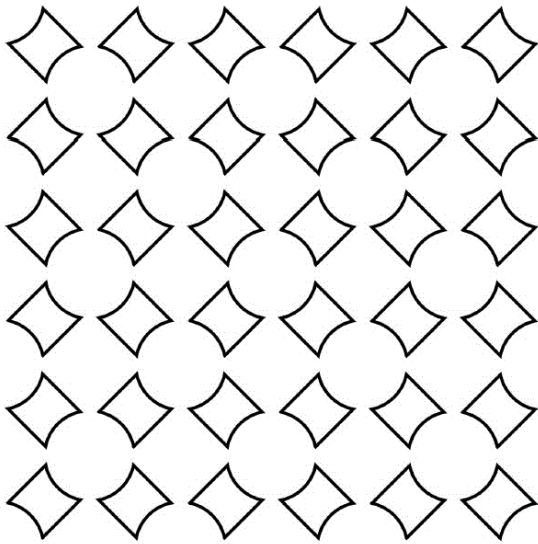


Figure 1  
Front view

21: A2023/00251 22: 2023-02-22 23:  
43: 2022-08-23  
52: Class 32 24: Part A  
71: QLOCKTWO License GmbH  
33: EM(DE) 31: 009155153-0009 32: 2022-08-23  
**54: SURFACE PATTERNS**

57: The design is a regular pattern of graphical elements each having the shape of an hourglass. Each graphical element has a circumference with two straight sections on opposite sides and with two inwardly curved sections on opposite sides. The graphical elements are arranged such that four straight sections of neighboring graphical elements create the visual impression of a square, and such that four inwardly-curved sections of neighboring graphical elements create the visual impression of a circle. The dimensions and arrangement of the graphical elements are selected such that the surface areas of the squares and circles are the same.

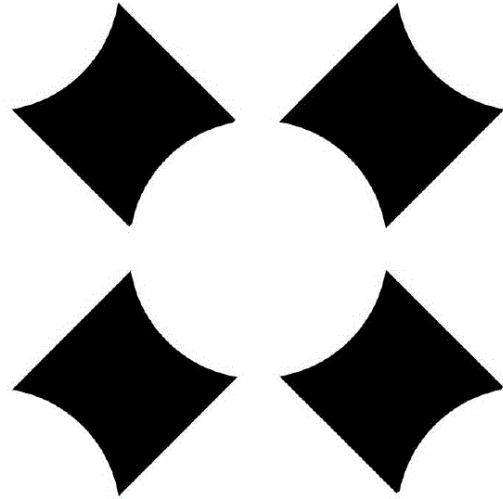
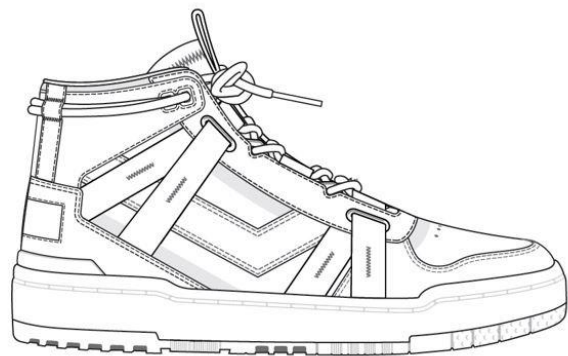


Figure 1  
Front view

21: A2023/00391 22: 2023-03-23 23:  
43: 2024-04-12  
52: Class 02 24: Part A  
71: Pepkor Speciality (Pty) Ltd  
**54: A SHOE**

57: The features of the design for which protection is claimed include the pattern and/or shape and/or configuration and/or ornamentation of a shoe (or part thereof) substantially as illustrated in the accompanying representations.



21: A2023/00497 22: 2023-04-19 23:  
43: 2024-02-09  
52: Class 12 24: Part A  
71: ROCK SOLID INDUSTRIES INTERNATIONAL (PTY) LTD  
33: US 31: 29/857,243 32: 2022-10-20  
**54: FRONT GLASS**

57: The features of the design for which protection is claimed reside in the shape and/or configuration and/or pattern and/or ornamentation of a front glass



substantially as illustrated in the accompanying representations, irrespective of the features shown in broken lines.

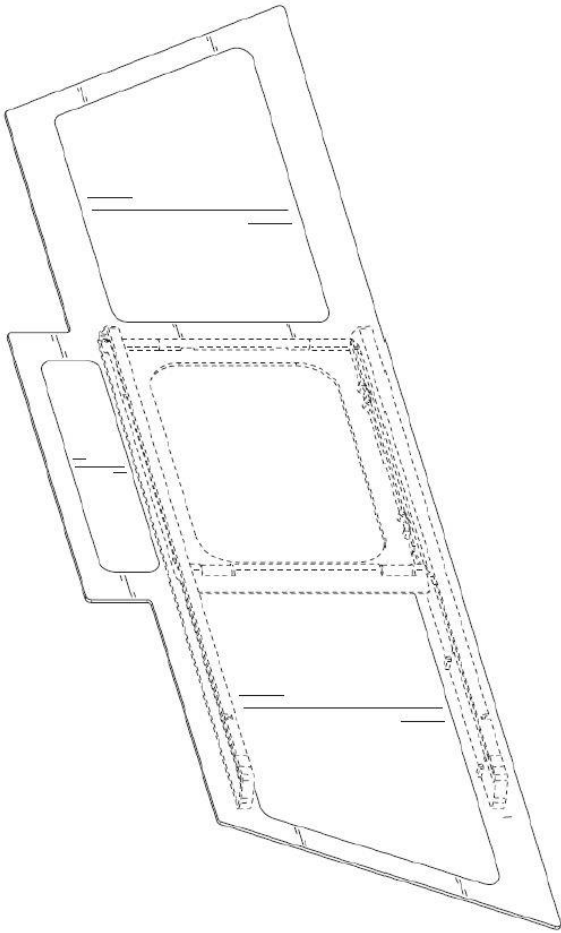


Figure 1  
Perspective View

21: A2023/00506 22: 2023-04-21 23:  
43: 2024-03-12  
52: Class 09 24: Part A  
71: YETI Coolers, LLC  
33: US 31: 29/857,964 32: 2022-10-26

**54: BOTTLE**

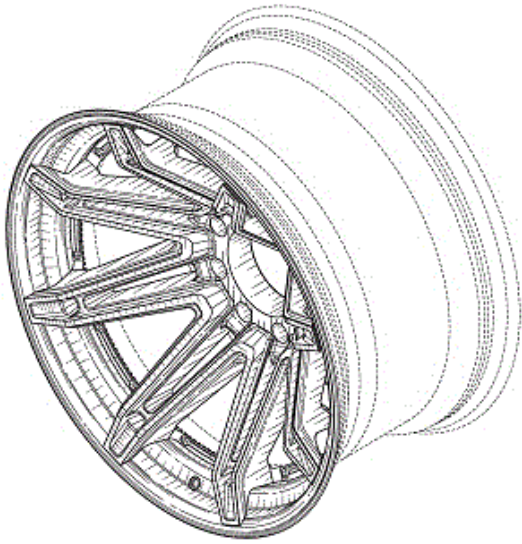
57: The design is in respect of a bottle which is use containerizes a fluid.



21: A2023/00710 22: 2023-06-22 23:  
43: 2024-02-09  
52: Class 12. 24: Part A  
71: WHEEL PROS, LLC  
33: US 31: 29/890,604 32: 2023-04-25

**54: Vehicle Wheel**

57: The design relates to a vehicle wheel. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

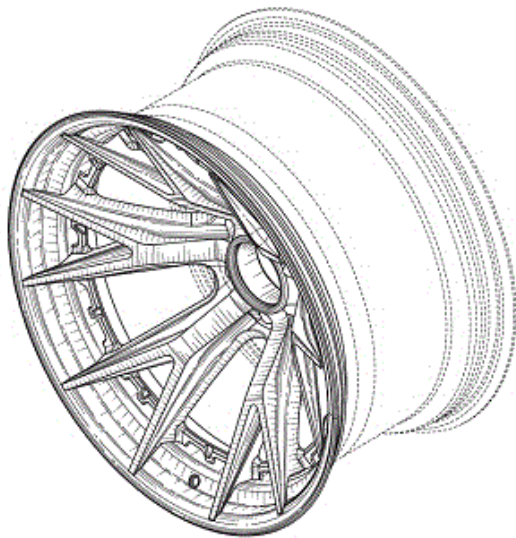


PERSPECTIVE VIEW

21: A2023/00711 22: 2023-06-22 23:  
43: 2024-02-09  
52: Class 12. 24: Part A  
71: WHEEL PROS, LLC  
33: US 31: 29/890,603 32: 2023-04-25

**54: Vehicle Wheel**

57: The design relates to a vehicle wheel. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



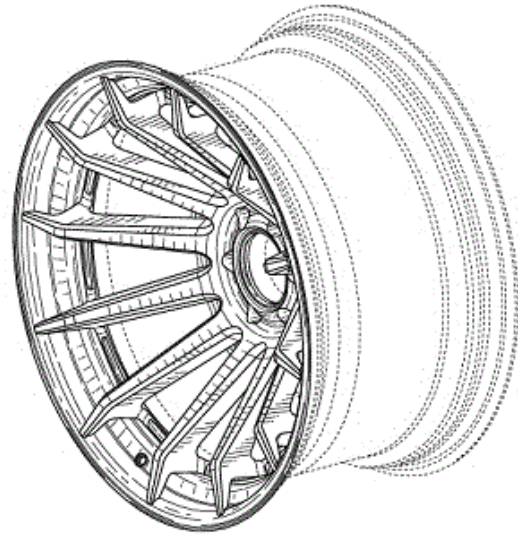
PERSPECTIVE VIEW

21: A2023/00712 22: 2023-06-22 23:  
43: 2024-02-09  
52: Class 12. 24: Part A  
71: WHEEL PROS, LLC

33: US 31: 29/892,763 32: 2023-05-22

**54: Vehicle Wheel**

57: The design relates to a vehicle wheel. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



PERSPECTIVE VIEW

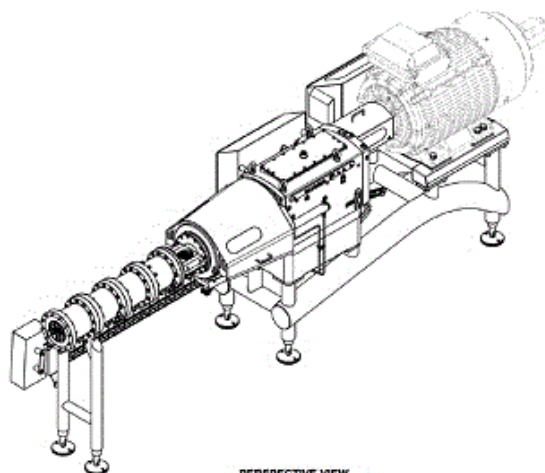
21: A2023/00714 22: 2023-06-26 23:  
43: 2023-06-26  
52: Class 2 24: Part A  
71: BATHU SWAG (PTY) LIMITED

**54: FOOTWEAR AND SOLES FOR FOOTWEAR**

57: The design is for a footwear and a sole for the footwear. The footwear has an upper that comprises various panels on the vamp, quarter, and foxing, some of which are textured. A flat plate having a plurality of cornered edges protrudes rearwardly outwardly from a rear portion of a midsole of the footwear. The sole is generally thick and gradually tapers forwardly and upwardly towards an inclined front portion of the footwear. An outer surface of the midsole is textured. An outsole of the sole comprises a distinct pattern of downwardly projecting rectangular-shaped gripping elements each defining an opening on a lower edge thereof. A transversely extending rib is provided proximate a lower edge of each gripping element. A longitudinally extending ellipse-shaped member that has cornered edges is provided substantially at the centre of the outsole. A pattern of laterally spaced obround formations is provided between some of the gripping elements.



Three-dimensional view from front



PERSPECTIVE VIEW

21: A2023/00719 22: 2023-06-27 23:

43: 2024-02-09

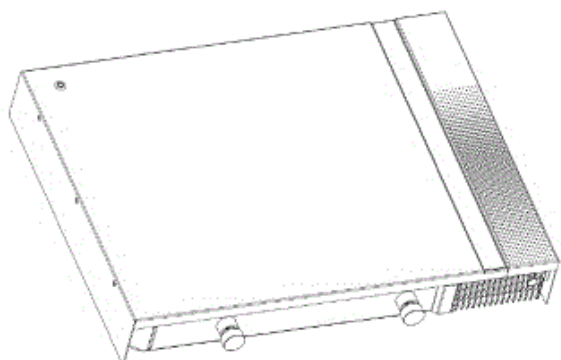
52: Class 13. 24: Part A

71: WECO (GUANGDONG) ENERGY STORAGE TECHNOLOGY CO., LTD.

33: CN 31: 202330275814.6 32: 2023-05-11

#### **54: AC/DC Power Station**

57: The design relates to an AC/DC power station. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



FRONT PERSPECTIVE VIEW

21: A2023/00722 22: 2023-06-27 23:

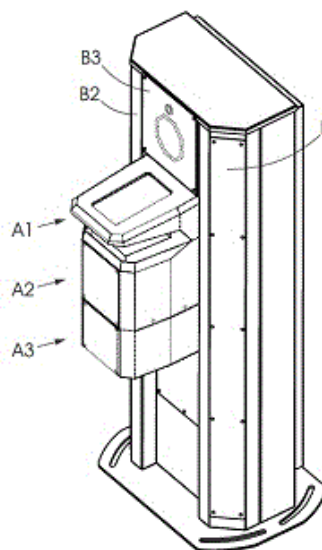
43: 2024-02-19

52: Class 10. 24: Part A

71: DELTROLUX (PTY) LTD

#### **54: Access Control Unit**

57: The design relates to an access control unit. The features of the design are those of shape and/or configuration and/or ornamentation.

FRONT  
PERSPECTIVE VIEW

21: A2023/00720 22: 2023-06-27 23:

43: 2024-02-07

52: Class 31. 24: Part A

71: BÜHLER AG

33: IB 31: 132805 32: 2023-05-12

#### **54: Extrusion System**

57: The design relates to an extrusion system. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

21: A2023/00724 22: 2023-06-28 23:

43: 2024-02-07

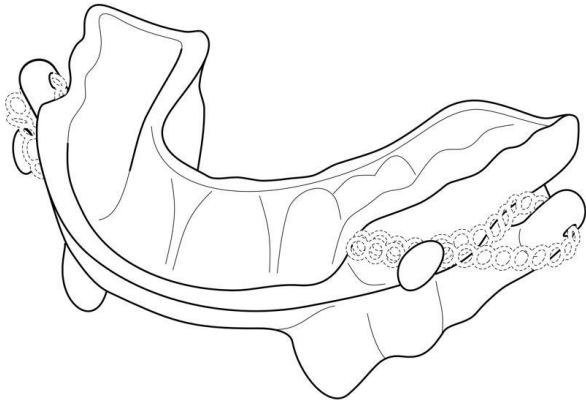
52: Class 24 24: Part A

71: BOSHOFF, George Stott

#### **54: MANDIBULAR ADVANCEMENT DEVICE**

57: The design is applied to a mandibular advancement device. The features of the design for which protection is claimed are those of the shape

and/or configuration and/or pattern and/or ornamentation of the mandibular advancement device, substantially as illustrated in the accompanying representation. Features shown in broken lines do not form part of the design and are disclaimed.

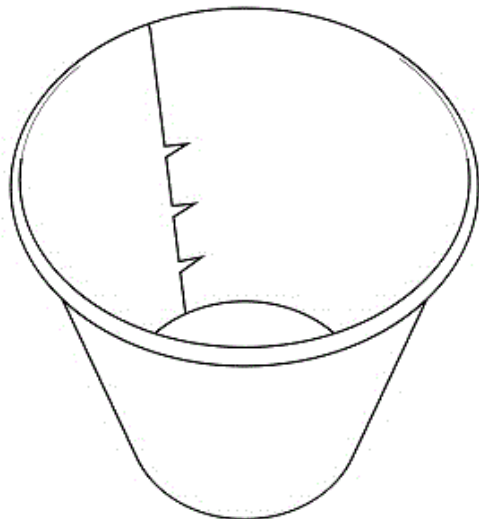


21: A2023/00725 22: 2023-06-28 23:  
43: 2024-02-07

52: Class 7. 24: Part A  
71: DETPAK SOUTH AFRICA

#### **54: Cup**

57: The design relates to a cup. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



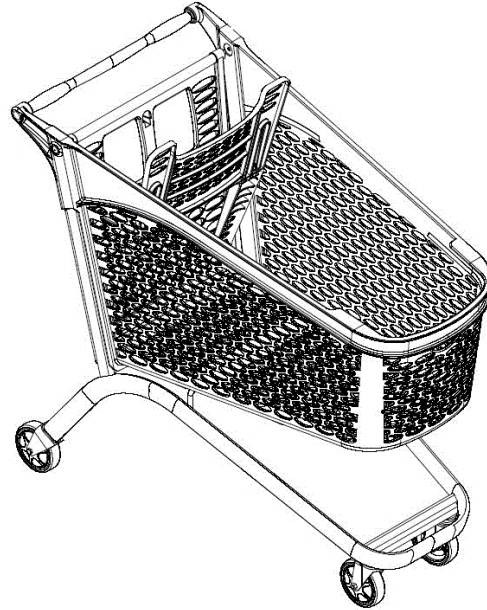
PERSPECTIVE VIEW

21: A2023/00728 22: 2023-07-03 23:  
43: 2023-07-03

52: Class 12 24: Part A  
71: SUPERCART SOUTH AFRICA (PTY) LTD

#### **54: TROLLEY**

57: The design is applied to a trolley. The features of the design for which protection is claimed include the shape and/or configuration of a trolley, substantially as illustrated in the accompanying representations.



Three-dimensional view from front

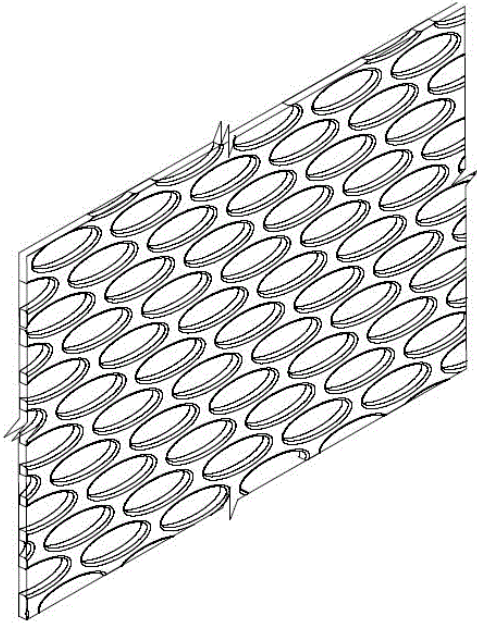
21: A2023/00729 22: 2023-07-03 23:  
43: 2023-07-03

52: Class 12 24: Part A  
71: SUPERCART SOUTH AFRICA (PTY) LTD

#### **54: SHOPPING BASKET BODY WALL**

57: The design is applied to a wall for a shopping basket body, either a shopping trolley or a handheld shopping basket, comprising a plurality of elliptical holes substantially as illustrated in the accompanying representations, irrespective of the angle at which the elliptical holes extend. The features of the design for which protection is claimed include the shape and/or configuration and/or pattern and/or ornamentation of a wall for a shopping basket body, substantially as illustrated in the accompanying representations.





Three-dimensional view

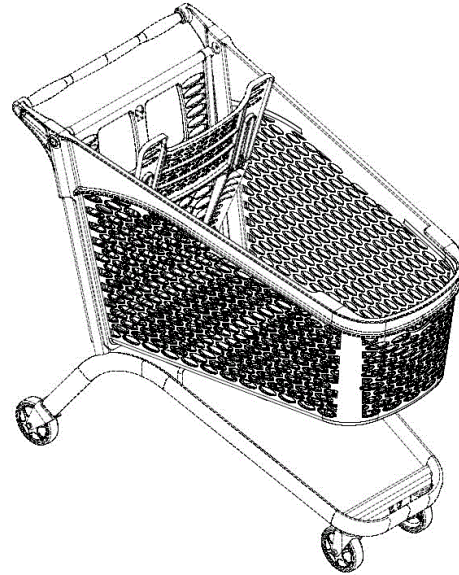
21: A2023/00730 22: 2023-07-03 23:  
43: 2023-07-03

52: Class 12 24: Part A

71: SUPERCART SOUTH AFRICA (PTY) LTD

**54: BASKET FOR A TROLLEY**

57: The design is applied to a basket for a trolley. The features of the design for which protection is claimed include the shape and/or configuration of a basket for a trolley, substantially as illustrated in the accompanying representations.



Three-dimensional view from front

21: A2023/00737 22: 2023-07-05 23:

43: 2023-01-06

52: Class 2 24: Part A

71: Crocs, Inc.

33: US 31: 29/869,724 32: 2023-01-06

**54: FOOTWEAR**

57: The design is for an article of footwear in the form of a slider slip-on shoe. The footwear has a sole with opposed upper and bottom surfaces, a peripheral sidewall, a vamp connected to the sole, and a square toe box. The upper defines a large rear foot opening. The vamp includes a plurality of concentric, parallel, stepped rib-like contours which extend transversely from the rear and become further spaced apart towards the front. The rear and sides of the upper further define a plurality of spaced apart recesses which extend forwardly from the rear and curve downwardly and further spaced apart towards the front of the shoe. The sole is thick, has a noticeably elevated face, and has a slight upward inclination towards the front of the footwear.



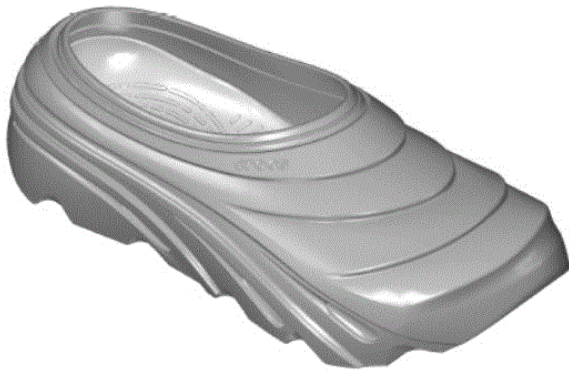


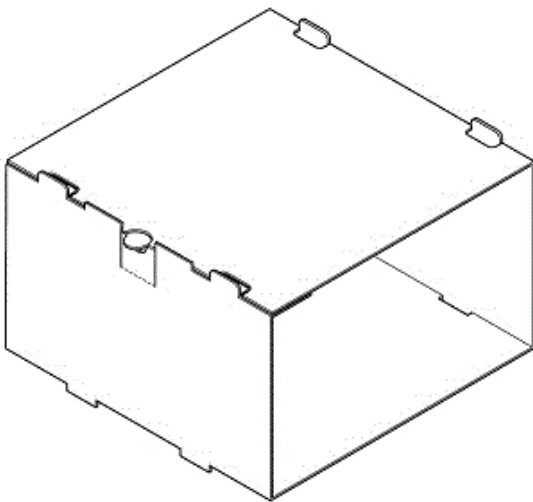
Figure 1

Three-dimensional view

21: A2023/00742 22: 2023-07-06 23:  
43: 2024-02-07  
52: Class 9. 24: Part A  
71: MPACT LIMITED

**54: Stacked Tray Arrangement**

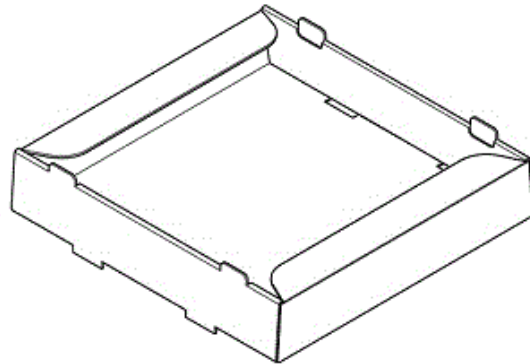
57: The design relates to a stacked tray arrangement. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

PERSPECTIVE VIEW

21: A2023/00745 22: 2023-07-06 23:  
43: 2024-02-19  
52: Class 9. 24: Part A  
71: MPACT LIMITED

**54: Stackable Tray**

57: The design relates to stackable tray. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

PERSPECTIVE VIEW

21: A2023/00748 22: 2023-07-07 23:  
43: 2024-02-12  
52: Class 13 24: Part A  
71: AJAX SYSTEMS CYPRUS HOLDINGS LTD  
33: WO 31: WIPO131382 32: 2023-04-07

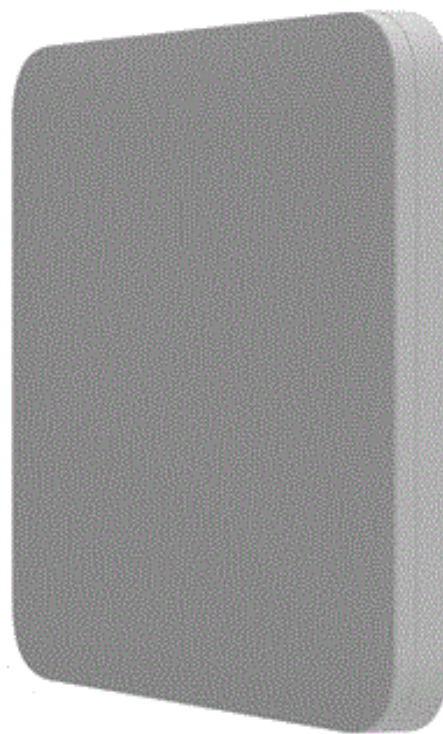
**54: COVER PLATE FOR SWITCHES**

57: The design relates to cover plates for switches. The features of the design are those of shape and/or configuration as shown and described in the six embodiments as shown.



**Figure 1.1**

*Perspective view*  
15.99 x 12.60 cm

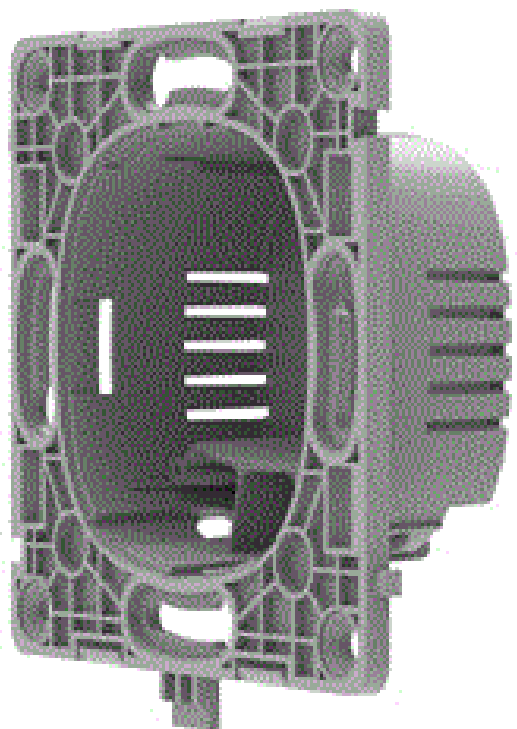


**Figure 1**

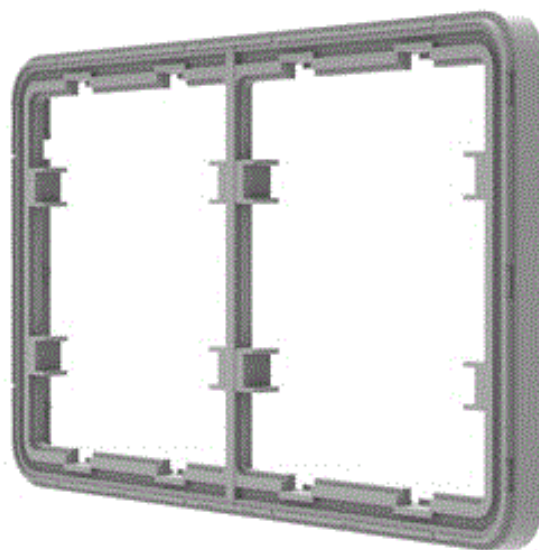
*Perspective view*  
15.99 x 12.60 cm

21: A2023/00749 22: 2023-07-07 23:  
43: 2024-02-07  
52: Class 13 24: Part A  
71: AJAX SYSTEMS CYPRUS HOLDINGS LTD  
33: WO 31: WIPO131378 32: 2023-04-07  
**54: COVER PLATE FOR SWITCHES**  
57: The design relates to cover plates for switches.  
The features of the design are those of shape  
and/or configuration as shown and described in the  
two embodiments as shown.

21: A2023/00750 22: 2023-07-07 23:  
43: 2024-02-07  
52: Class 13 24: Part A  
71: AJAX SYSTEMS CYPRUS HOLDINGS LTD  
33: WO 31: WIPO131377 32: 2023-04-07  
**54: SOCKET BOX**  
57: The ornamental design relates to an electric  
socket box. The features of the design are those of  
shape and/or configuration as shown and described.

**Figure 1**

*Perspective view*  
15.99 x 12.60 cm

**Figure 1.1**

*Perspective view*  
15.99 x 12.60 cm

21: A2023/00751 22: 2023-07-07 23:  
43: 2024-02-07  
52: Class 13 24: Part A  
71: AJAX SYSTEMS CYPRUS HOLDINGS LTD  
33: WO 31: WIPO131380 32: 2023-04-07

**54: FRAMES FOR SWITCHES**

57: The ornamental design relates to frames for switches. The features of the design are those of shape and/or configuration as shown and described in the fur embodiments as shown.

21: A2023/00752 22: 2023-07-07 23:  
43: 2024-02-07

52: Class 10 24: Part A

71: AJAX SYSTEMS CYPRUS HOLDINGS LTD

33: WO 31: WIPO133055 32: 2023-05-19

**54: HEAT AND CO DETECTOR**

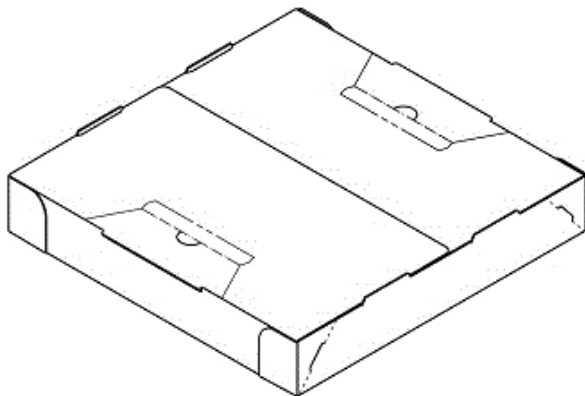
57: The ornamental design relates to a wireless Heat and Carbon Oxide Detector. The features of the design are those of shape and/or configuration as shown and described. The detector provides for sensors that monitors security in a room which immediately notifies of dangerous CO levels, smoke and sharp increase in temperature.



21: A2023/00754 22: 2023-07-07 23:  
43: 2024-02-19  
52: Class 9. 24: Part A  
71: MPACT LIMITED

**54: Stackable Box**

57: The design relates to a stackable box. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



PERSPECTIVE VIEW

21: A2023/00767 22: 2023-07-10 23:  
43: 2024-02-07  
52: Class 13. 24: Part A  
71: ZHEJIANG GEELY HOLDING GROUP CO., LTD., HANGZHOU JICHONGCHONG TECHNOLOGY CO., LTD.  
33: CN 31: 202330229146.3 32: 2023-04-23

**54: Portable Power Supply**

57: The design relates to portable power supply. The features of the design are those of shape and/or configuration and/or ornamentation.



TOP, FRONT AND LEFT SIDE  
PERSPECTIVE VIEW

21: A2023/00768 22: 2023-07-10 23:  
43: 2024-02-07  
52: Class 13. 24: Part A  
71: ZHEJIANG GEELY HOLDING GROUP CO., LTD., HANGZHOU JICHONGCHONG TECHNOLOGY CO., LTD.

33: CN 31: 202330229147.8 32: 2023-04-23

**54: Portable Power Supply**

57: The design relates to a portable power supply. The features of the design are those of shape and/or configuration and/or ornamentation.



TOP, FRONT AND LEFT SIDE  
PERSPECTIVE VIEW

21: A2023/00769 22: 2023-07-10 23:  
43: 2024-02-07



52: Class 13. 24: Part A

71: ZHEJIANG GEELY HOLDING GROUP CO., LTD., HANGZHOU JICHONGCHONG TECHNOLOGY CO., LTD.

33: CN 31: 202330242759.0 32: 2023-04-27

**54: Portable Power Supply**

57: The design relates to a portable power supply.

The features of the design are those of shape and/or configuration and/or ornamentation.



FRONT PERSPECTIVE VIEW

21: A2023/00770 22: 2023-07-10 23:

43: 2024-02-07

52: Class 13. 24: Part A

71: ZHEJIANG GEELY HOLDING GROUP CO., LTD., HANGZHOU JICHONGCHONG TECHNOLOGY CO., LTD.

33: CN 31: 202330229148.2 32: 2023-04-23

**54: Portable Power Supply**

57: The design relates to a portable power supply.

The features of the design are those of shape and/or configuration and/or ornamentation.



TOP, FRONT AND LEFT SIDE  
PERSPECTIVE VIEW

21: A2023/00771 22: 2023-07-10 23:

43: 2024-02-07

52: Class 13. 24: Part A

71: ZHEJIANG GEELY HOLDING GROUP CO., LTD., HANGZHOU JICHONGCHONG TECHNOLOGY CO., LTD.

33: CN 31: 202330229149.7 32: 2023-04-23

**54: Portable Power Supply**

57: The design relates to a portable power supply.

The features of the design are those of shape and/or configuration and/or ornamentation.



TOP, FRONT AND LEFT SIDE  
PERSPECTIVE VIEW

21: A2023/00772 22: 2023-07-10 23:

43: 2024-02-07



52: Class 13. 24: Part A

71: ZHEJIANG GEELY HOLDING GROUP CO., LTD., HANGZHOU JICHONGCHONG TECHNOLOGY CO., LTD.

33: CN 31: 202330229166.0 32: 2023-04-23

**54: Portable Power Supply**

57: The design relates to a portable power supply. The features of the design are those of shape and/or configuration and/or ornamentation.



TOP, REAR AND LEFT SIDE  
PERSPECTIVE VIEW



TOP, REAR AND LEFT SIDE  
PERSPECTIVE VIEW

21: A2023/00774 22: 2023-07-10 23:

43: 2024-02-07

52: Class 13. 24: Part A

71: ZHEJIANG GEELY HOLDING GROUP CO., LTD., HANGZHOU JICHONGCHONG TECHNOLOGY CO., LTD.

33: CN 31: 202330229151.4 32: 2023-04-23

**54: Portable Power Supply**

57: The design relates to a portable power supply. The features of the design are those of shape and/or configuration and/or ornamentation.

21: A2023/00773 22: 2023-07-10 23:

43: 2024-02-07

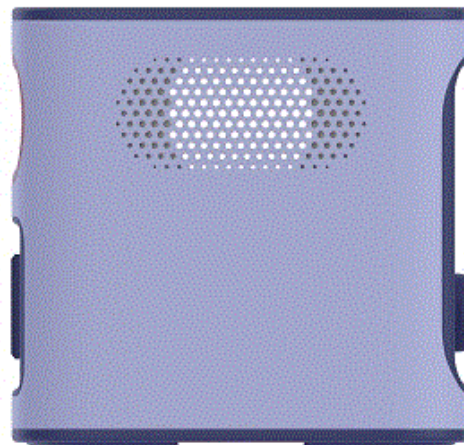
52: Class 13. 24: Part A

71: ZHEJIANG GEELY HOLDING GROUP CO., LTD., HANGZHOU JICHONGCHONG TECHNOLOGY CO., LTD.

33: CN 31: 202330229156.7 32: 2023-04-23

**54: Portable Power Supply**

57: The design relates to a portable power supply. The features of the design are those of shape and/or configuration and/or ornamentation.



FRONT VIEW

21: A2023/00775 22: 2023-07-10 23:

43: 2024-02-07

52: Class 13. 24: Part A

71: ZHEJIANG GEELY HOLDING GROUP CO., LTD., HANGZHOU JICHONGCHONG TECHNOLOGY CO., LTD.

33: CN 31: 202330242753.3 32: 2023-04-27

**54: Portable Power Supply**

57: The design relates to a portable power supply. The features of the design are those of shape and/or configuration and/or ornamentation.



FRONT PERSPECTIVE VIEW

21: A2023/00776 22: 2023-07-10 23:

43: 2024-02-07

52: Class 13. 24: Part A

71: ZHEJIANG GEELY HOLDING GROUP CO., LTD., HANGZHOU JICHONGCHONG TECHNOLOGY CO., LTD.

33: CN 31: 202330242758.6 32: 2023-04-27

**54: Portable Power Supply**

57: The design relates to portable power supply. The features of the design are those of shape and/or configuration and/or ornamentation.



PERSPECTIVE VIEW

21: A2023/00777 22: 2023-07-10 23:

43: 2024-02-09

52: Class 13. 24: Part A

71: ZHEJIANG GEELY HOLDING GROUP CO., LTD., HANGZHOU JICHONGCHONG TECHNOLOGY CO., LTD.

33: CN 31: 202330242749.7 32: 2023-04-27

**54: Portable Power Supply**

57: The design relates to a portable power supply. The features of the design are those of shape and/or configuration and/or ornamentation and pattern.



PERSPECTIVE VIEW

21: A2023/00784 22: 2023-07-12 23:

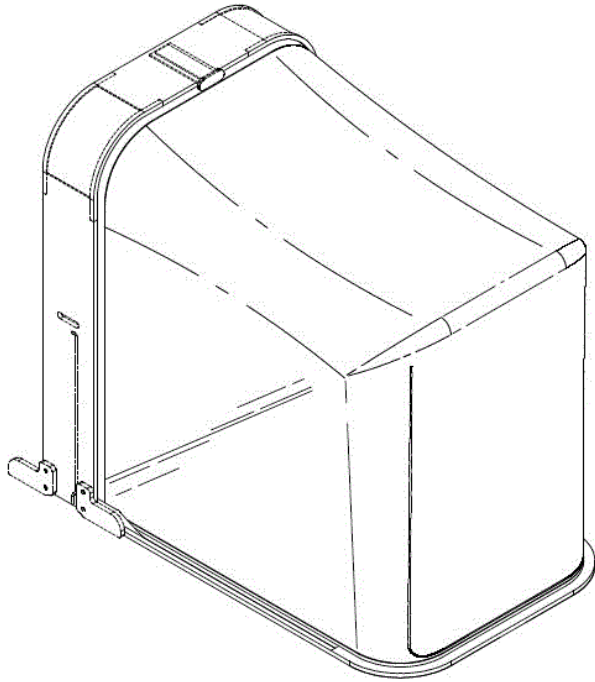
43: 2023-07-12

52: Class 25 24: Part A

71: FEEL GOOD PROPRIETARY LIMITED

**54: Collapsible Enclosures**

57: The design relates to a collapsible enclosure comprising a flexible sheet element which defines an enclosed space when deployed and a rigid casing shell in which the sheet element is stowed. In a deployed condition, the sheet element forms a box-shaped tent structure defining the enclosed space. The collapsible enclosure has a generally rectangular shape when viewed from the front with rounded corners at an upper end thereof. An access opening is closed by a flexible panel forming part of the tent structure. The casing shell comprises a container section in which the sheet element is stowed and a planar cover panel for closing the container section, which provides a floor for the tent structure. The enclosure is transformable between the stowed condition and the deployed condition.



Three-dimensional view from front

21: A2023/00792 22: 2023-07-14 23:  
43: 2024-02-07  
52: Class 9. 24: Part A  
71: DART INDUSTRIES INC.  
33: US 31: 29/883,927 32: 2023-02-05

**54: Flexible Storage Bag**

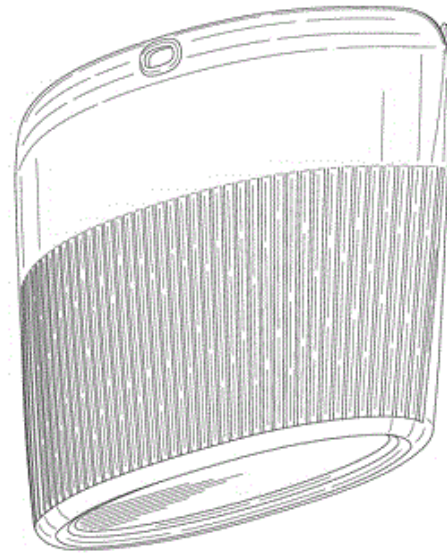
57: The design relates to a flexible storage bag. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

BOTTOM, FRONT AND RIGHT SIDE  
PERSPECTIVE VIEW

21: A2023/00793 22: 2023-07-14 23:  
43: 2024-02-07  
52: Class 9. 24: Part A  
71: DART INDUSTRIES INC.  
33: US 31: 29/883,927 32: 2023-02-05

**54: Flexible Storage Bag**

57: The design relates to a flexible storage bag. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

BOTTOM, FRONT AND RIGHT SIDE  
PERSPECTIVE VIEW

21: A2023/00797 22: 2023-07-14 23:  
43: 2023-01-14  
52: Class 16 24: Part A  
71: Leupold & Stevens, Inc.  
33: US 31: 29/882,471 32: 2023-01-14

**54: SCOPES**

57: The design is for a scope having a slender cylindrical lower body portion and a larger cylindrical upper body portion. A slender eye cup projects rearwardly from the slender cylindrical body portion. An arrangement of spaced apart kite-shaped recesses is provided on the eye cup. A circular eye piece housing a lens is fitted to an end of the eye cup. An opposite end of slender cylindrical body portion is forwardly slanted. A ribbed knob projects from a side of the slender cylindrical body portion. The larger cylindrical body portion extends forwardly from the center of the slender cylindrical body portion. A ring member having cornered edges that houses a lens is provided at a forward end of the larger cylindrical body portion. A rear end of the larger cylindrical body portion is rearwardly slanted. Flat bar shaped mounts defining longitudinally spaced apart openings project from the top and



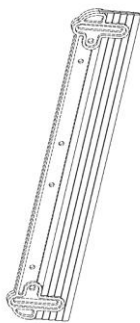
sides of the slender cylindrical body portion and the sides and bottom of the larger cylindrical body portion.



Figure 1  
Three-dimensional view

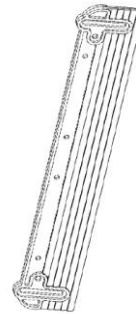
21: A2023/00826 22: 2023-07-21 23:  
43: 2024-02-07  
52: Class 26 24: Part A  
71: MUSCO CORPORATION  
33: US 31: 29/883,018 32: 2023-01-23  
**54: LENS**

57: The representation shows a top front perspective view of a lens showing the overall appearance thereof.



21: A2023/00827 22: 2023-07-21 23:  
43: 2024-02-07  
52: Class 26 24: Part A  
71: MUSCO CORPORATION  
33: US 31: 29/883,022 32: 2023-01-23  
**54: LENS**

57: The representation shows a top front perspective view of a lens showing the overall appearance thereof.

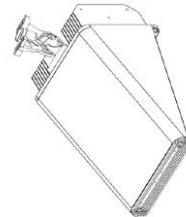


21: A2023/00828 22: 2023-07-21 23:  
43: 2024-02-07  
52: Class 26 24: Part A  
71: MUSCO CORPORATION

33: US 31: 29/883,048 32: 2023-01-23

**54: ADJUSTABLE LIGHTING FIXTURE**

57: The representation shows a top perspective view of an adjustable lighting fixture showing the overall appearance thereof.

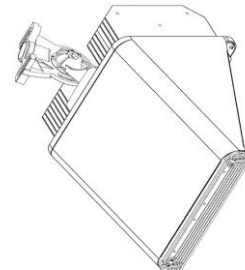


21: A2023/00829 22: 2023-07-21 23:  
43: 2024-02-09  
52: Class 26 24: Part A  
71: MUSCO CORPORATION

33: US 31: 29/883,050 32: 2023-01-23

**54: ADJUSTABLE LIGHTING FIXTURE**

57: The representation shows a top perspective view of an adjustable lighting fixture showing the overall appearance thereof.



21: A2023/00830 22: 2023-07-21 23:

43: 2024-02-07

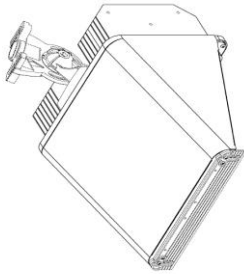
52: Class 26 24: Part A

71: MUSCO CORPORATION

33: US 31: 29/883,051 32: 2023-01-23

**54: ADJUSTABLE LIGHTING FIXTURE**

57: The representation shows a top perspective view of an adjustable lighting fixture showing the overall appearance thereof.



21: A2023/00833 22: 2023-07-21 23:

43: 2024-02-07

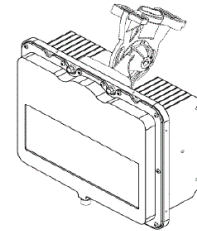
52: Class 26 24: Part A

71: MUSCO CORPORATION

33: US 31: 29/883,033 32: 2023-01-23

**54: LIGHTING FIXTURE**

57: The representation shows a top front perspective view of a lighting fixture showing the overall appearance thereof.



21: A2023/00831 22: 2023-07-21 23:

43: 2024-02-07

52: Class 26 24: Part A

71: MUSCO CORPORATION

33: US 31: 29/883,028 32: 2023-01-23

**54: LENS**

57: The representation shows a top front perspective view of a lens showing the overall appearance thereof.



21: A2023/00834 22: 2023-07-21 23:

43: 2014-02-07

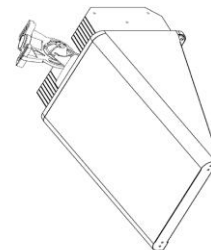
52: Class 26 24: Part A

71: MUSCO CORPORATION

33: US 31: 29/883,034 32: 2023-01-23

**54: ADJUSTABLE LIGHTING FIXTURE**

57: The representation shows a top perspective view of an adjustable lighting fixture showing the overall appearance thereof.



21: A2023/00832 22: 2023-07-21 23:

43: 2024-02-07

52: Class 26 24: Part A

71: MUSCO CORPORATION

33: US 31: 29/883,031 32: 2023-01-23

**54: LENS**

57: The representation shows a top front perspective view of a lens showing the overall appearance thereof.

21: A2023/00835 22: 2023-07-21 23:

43: 2024-02-07

52: Class 26 24: Part A

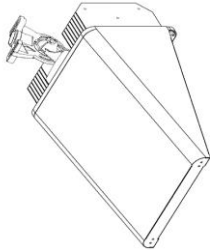


71: MUSCO CORPORATION

33: US 31: 29/883,036 32: 2023-01-21

**54: ADJUSTABLE LIGHTING FIXTURE**

57: The representation shows a top perspective view of an adjustable lighting fixture showing the overall appearance thereof.



21: A2023/00837 22: 2023-07-21 23:

43: 2024-02-07

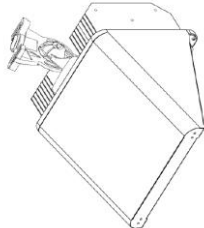
52: Class 26 24: Part A

71: MUSCO CORPORATION

33: US 31: 29/883,045 32: 2023-01-23

**54: ADJUSTABLE LIGHTING FIXTURE**

57: The representation shows a top perspective view of an adjustable lighting fixture showing the overall appearance thereof.



21: A2023/00838 22: 2023-07-21 23:

43: 2024-02-09

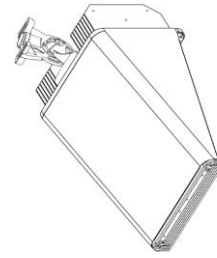
52: Class 26 24: Part A

71: MUSCO CORPORATION

33: US 31: 29/883,046 32: 2023-01-23

**54: ADJUSTABLE LIGHTING FIXTURE**

57: The representation shows a top perspective view of an adjustable lighting fixture showing the overall appearance thereof.



21: A2023/00841 22: 2023-07-21 23:

43: 2023-01-26

52: Class 31 24: Part A

71: SMEG S.p.A.

33: HSIRID(CH) 31: DM/226626 32: 2023-01-26

**54: ELECTRIC MIXERS**

57: The design is for an electric mixer. A bottom part thereof includes a generally semi-circular shaped body having a planar front face, a semi-circular top planar face, a semi-circular rear face, and planar sidewalls that gently curve to the rear face. An edge connecting the planar front face and the planar top face is rounded. A knob protrudes substantially centrally from the front face. The bottom part and the knob are characterized by a slight chamfering of the perimeter lines. A top upright part of the electric mixer protrudes substantially from a centre of the top face. The top part includes a substantially cylindrical jug that has a vertically arranged elongate window on one of its sides. A generally round-shaped lid with opposite pointed ends is provided on an upper end of the jug. Semi-circular shaped recesses are provided at the centre of the lid.

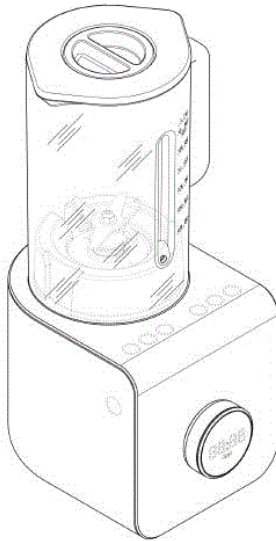


Figure 1

Three-dimensional view



Figure 1

Three-dimensional view

21: A2023/00844 22: 2023-07-24 23:  
43: 2023-05-08

52: Class 12 24: Part A

71: Dr. Ing. h.c. F. Porsche Aktiengesellschaft  
33: EM(DE) 31: 015020603-0001 32: 2023-05-08

#### **54: AUTOMOBILES**

57: The design is for an automobile in the form of a two-door coupé. A front bumper has a central aperture and vent openings at opposite ends thereof. An elongate bonnet is provided having a central portion and outer sideward portions. Rearwardly extending air vents are provided on the outer portions of the bonnet. A pair of vents are provided on the sides of the bonnet. An oval shaped headlight is provided on the sides at the of the automobile. An air scoop is provided in front of each rear wheel. A roof is provided which extends between a rearwardly upwardly extending windscreen and a flat trunk. A spoiler extends rearwardly upwardly from an edge of the trunk. Irregular shaped taillights are provided on either side of the rear of the automobile. A pair of closely spaced exhaust pipes are provided at a centre of a diffuser.

21: A2023/00845 22: 2023-07-24 23:  
43: 2023-05-08

52: Class 12 24: Part A

71: Dr. Ing. h.c. F. Porsche Aktiengesellschaft  
33: EM(DE) 31: 015020603-0006 32: 2023-05-08

#### **54: AUTOMOBILES**

57: The design is for an automobile in the form of an opened-topped two-door coupé. A front bumper has a central aperture and vent openings at opposite ends thereof. An elongate bonnet is provided having a central portion and outer sideward portions. Rearwardly extending air vents are provided on the outer portions of the bonnet. A pair of vents are provided on the sides of the bonnet. An oval shaped headlight is provided on the sides at the of the automobile. An air scoop is provided in front of each rear wheel. A spoiler extends rearwardly upwardly from an edge of a trunk. Irregular shaped taillights are provided on either side of the rear of the automobile. A pair of closely spaced exhaust pipes are provided at a centre of a diffuser.



Figure 1

Three-dimensional view

21: A2023/00848 22: 2023-07-25 23:

43: 2023-01-26

52: Class 12 24: Part A

71: Bayerische Motoren Werke Aktiengesellschaft

33: DE 31: 402023100039.4 32: 2023-01-26

**54: MOTOR VEHICLES**

57: The design is for a motor vehicle, particularly for a four-door sedan having a long bonnet, a short front overhang, a steeply sloping A-pillar, a long wheelbase, and a long roofline. The front has a large, upright twin kidney-shaped radiator grille having vertical slats. It is flanked by headlights extending almost up to the grill. They have twin hexagonal lamps, each being flanked at the outside by a vertical element. An elongate air-intake grille bordered by two diagonal lines at the sides is provided below. A linear swage line extends along the side of the vehicle extending upwards towards the rear. In the side's lower portion, another swage line is slightly curved, also extending upwards towards the rear. The rear is characterized by horizontal lines, L-shaped rear lights positioned at the outer edges. In the rear's lower portion, both sides are flanked by distinctly L-shaped elements.



Figure 1

Three-dimensional view

21: A2023/00849 22: 2023-07-25 23:

43: 2023-01-26

52: Class 12 24: Part A

71: Bayerische Motoren Werke Aktiengesellschaft

33: DE 31: 402023100039.4 32: 2023-01-26

**54: MOTOR VEHICLES**

57: The design is for a motor vehicle, particularly for a five-door estate car having a long bonnet, a short front overhang, a steeply sloping A-pillar and a long wheelbase. The front has a large, upright twin kidney-shaped radiator grille having vertical slats. It is flanked by headlights extending almost up to the grill. They have twin hexagonal lamps, each being flanked at the outside by a vertical element. An elongate air-intake grille bordered by two diagonal lines at the sides is provided below. A linear swage line extends along the side of the vehicle extending upwards towards the rear. In the side's lower portion, another swage line is slightly curved, also extending upwards towards the rear. The rear is characterized by horizontal lines, L-shaped rear lights positioned at the outer edges. In the rear's lower portion, both sides are flanked by distinctly L-shaped elements.



Figure 1

Three-dimensional view

21: A2023/00850 22: 2023-07-25 23:

43: 2023-01-26

52: Class 12 24: Part A

71: Bayerische Motoren Werke Aktiengesellschaft

33: DE 31: 402023100039.4 32: 2023-01-26

**54: MOTOR VEHICLES**

57: The design is for a motor vehicle, particularly for a four-door sedan having a long bonnet, a short front overhang, a steeply sloping A-pillar, a long wheelbase, and a long roofline. The front has a large, upright twin kidney-shaped radiator grille having vertical slats. It is flanked by headlights extending almost up to the grill. They have twin hexagonal lamps, each being flanked at the outside by a vertical element. An elongate air-intake grille bordered by two diagonal lines at the sides is provided below. A linear swage line extends along the side of the vehicle extending upwards towards the rear. In the side's lower portion, another swage line is slightly curved, also extending upwards

towards the rear. The rear is characterized by horizontal lines, L-shaped rear lights positioned at the outer edges. In the rear's lower portion, both sides are flanked by distinctly L-shaped elements.



Figure 1

Three-dimensional view

21: A2023/00851 22: 2023-07-25 23:

43: 2024-02-09

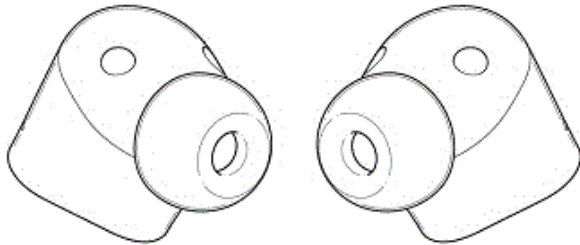
52: Class 14. 24: Part A

71: APPLE INC.

33: US 31: 29/883,297 32: 2023-01-26

#### 54: Pair of Earphones

57: The design relates to a pair of earphones. The features of the design are those of shape and/or configuration and/or ornamentation.



TOP PERSPECTIVE VIEW

21: A2023/00859 22: 2023-07-26 23:

43: 2023-02-09

52: Class 10 24: Part A

71: Turlen Holding SA

33: HSIRID(CH) 31: DM/228553 32: 2023-02-09

#### 54: WATCHES

57: The design is for a watch. The watch has a case that has front convex and rear concave faces. Each face has parallel top and bottom edges and convex side edges extending therebetween. Edges of the case define spaced apart rectangular-shaped indentations with mechanical fasteners therebetween; the fasteners extend between the front and rear faces. Sidewalls extend between the front and rear faces. A large circular crown is fitted on one of the lateral side walls. A first irregular hexagonal-shaped button projects from the side wall

below the crown. Front and rear windows are provided over the front and rear faces and reveal mechanical innards of the watch. A watch mechanism is visible through both windows. A dial is shown on the front face. Hands which define openings are visible through the front window.



Figure 7

Three-dimensional view

21: A2023/00860 22: 2023-07-26 23:

43: 2023-01-27

52: Class 14 24: Part A

71: HMD Global Oy

33: EM(FI) 31: 015009957-0001 32: 2023-01-27

#### 54: MOBILE PHONES

57: The design is for a mobile phone. The mobile phone has a front part and a rear part which are connected to each other along an interface joint that runs between opposite side walls and curved end walls of the front and rear parts. An upper portion of the front part has a rectangular screen portion that is surrounded by an outer frame. An elongate slot is provided above the screen portion. A button pad comprising of an array of rectangular buttons is provided below the screen portion. A prominent square shaped button, that is surrounded by the button pad, is provided at the center of the front portion below the outer frame of the screen portion.



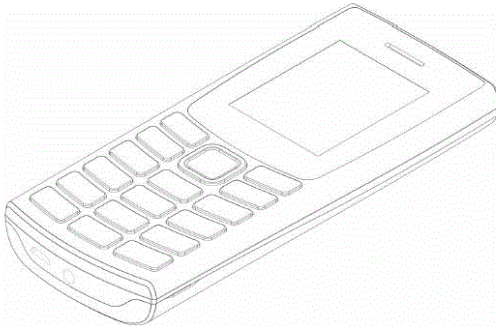


Figure 1  
Three-dimensional view

21: A2023/00861 22: 2023-07-26 23:  
43: 2023-01-27

52: Class 14 24: Part A

71: HMD Global Oy

33: EM(FI) 31: 015009954-0001 32: 2023-01-27

#### **54: MOBILE PHONES**

57: The design is for a mobile phone. The mobile phone has a front part and a rear part which are connected to each other along an interface joint that runs between opposite side walls and curved end walls of the front and rear parts. An upper portion of the front part has a rectangular screen portion that is surrounded by an outer frame. An elongate slot is provided above the screen portion. A button pad is provided on a lower portion of the front part. Two horizontally arranged, vertically spaced apart elongated buttons are provided between the screen portion and the button pad. A prominent square shaped button that has beveled corners is provided at the center of the panels.

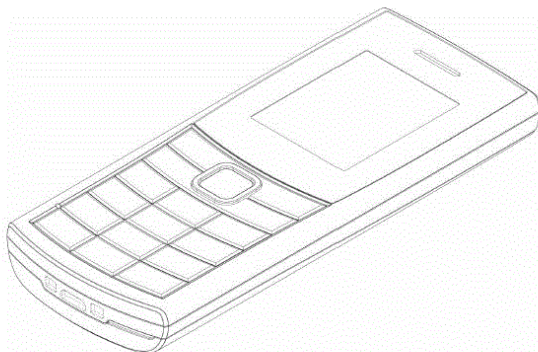


Figure 1  
Three-dimensional view

21: A2023/00862 22: 2023-07-26 23:  
43: 2023-01-27

52: Class 14 24: Part A

71: HMD Global Oy

33: EM(FI) 31: 015009957-0002 32: 2023-01-27

#### **54: MOBILE PHONES**

57: The design is for a mobile phone. The mobile phone has a front part and a rear part which are connected to each other along an interface joint that runs between opposite side walls and curved end walls of the front and rear parts. An upper portion of the front part has a rectangular screen portion that is surrounded by an outer frame. An elongate slot is provided above the screen portion. A button pad comprising of an array of rectangular buttons is provided below the screen portion. A prominent square shaped button, that is surrounded by the button pad, is provided at the center of the front portion below the outer frame of the screen portion. A pattern of concentric circles is provided on an upper central portion of the rear part.

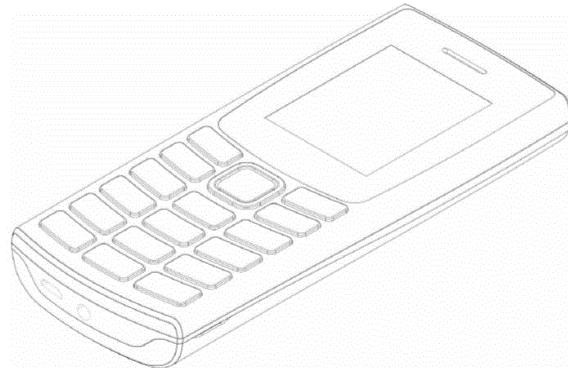


Figure 1  
Three-dimensional view

21: A2023/00863 22: 2023-07-26 23:  
43: 2023-01-27

52: Class 14 24: Part A

71: HMD Global Oy

33: EM(FI) 31: 015009954-0002 32: 2023-01-27

#### **54: MOBILE PHONES**

57: The design is for a mobile phone. The mobile phone has a front part and a rear part which are connected to each other along an interface joint that runs between opposite side walls and curved end walls of the front and rear parts. An upper portion of the front part has a rectangular screen portion that is surrounded by an outer frame. An elongate slot is provided above the screen portion. A button pad is provided below the screen portion. A prominent square shaped button, that is surrounded by the button pad, is provided at the center of the front portion below the outer frame of the screen portion.



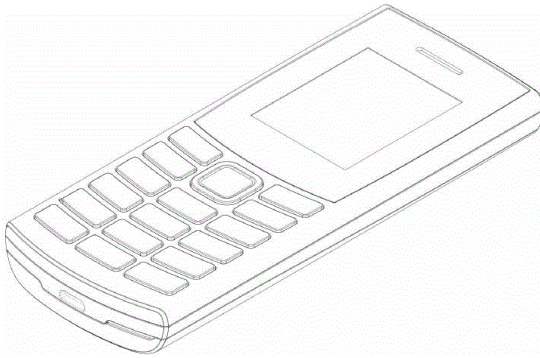


Figure 1

Three-dimensional view

21: A2023/00866 22: 2023-07-27 23:

43: 2024-02-07

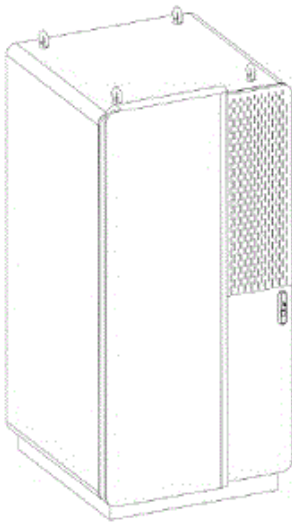
52: Class 13. 24: Part A

71: SHENZHEN OLIPOWER ENERGY &  
AUTOMATION TECHNOLOGY CO., LTD.

33: CN 31: 202330360801.9 32: 2023-06-12

**54: Battery Chamber**

57: The design relates to a battery chamber. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



FRONT PERSPECTIVE VIEW

21: A2023/00867 22: 2023-07-27 23:

43: 2024-02-07

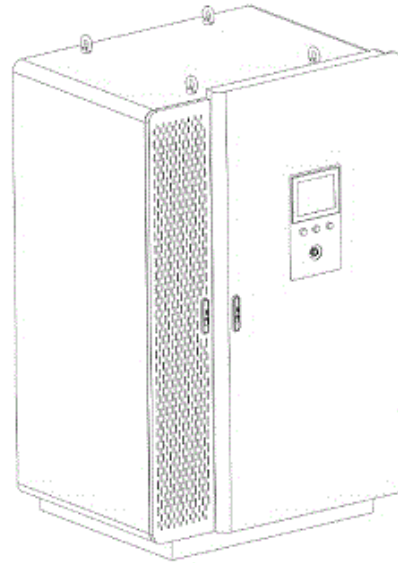
52: Class 13. 24: Part A

71: SHENZHEN OLIPOWER ENERGY &  
AUTOMATION TECHNOLOGY CO., LTD.

33: CN 31: 202330360802.3 32: 2023-06-12

**54: Battery Chamber**

57: The design relates to battery chamber. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



FRONT PERSPECTIVE VIEW

21: A2023/00870 22: 2023-07-28 23:

43: 2024-02-09

52: Class 09 24: Part A

71: TW America Inc.

33: US 31: 29/891,181 32: 2023-05-02

**54: CONTAINERS**

57: The design is for a container. The container is a modular and variable-length container that can be changed in length by changing only two end portions and two side portions. The container has a generally rectangular profile with rectangular front and rear faces and rectangular opposite faces. Each of the front and rear faces define a pair of spaced apart windows at an upper portion thereof. Each of the opposite faces comprise a pair of spaced apart square shaped windows at an upper portion thereof and a pair of spaced apart rectangular windows at a lower portion thereof. A base of the container comprises spaced apart legs which define channels between them and define laterally spaced apart rectangular windows. The exterior of the container has a textured surface that comprises a mixture of geometric shapes and the design of the exterior helps distinguish the container from other container types.

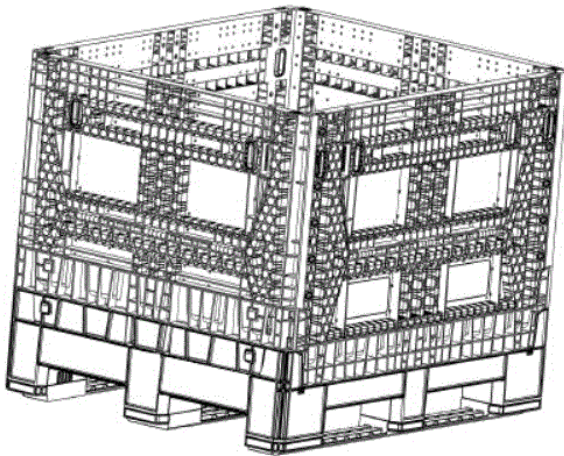


Figure 1

Three-dimensional view

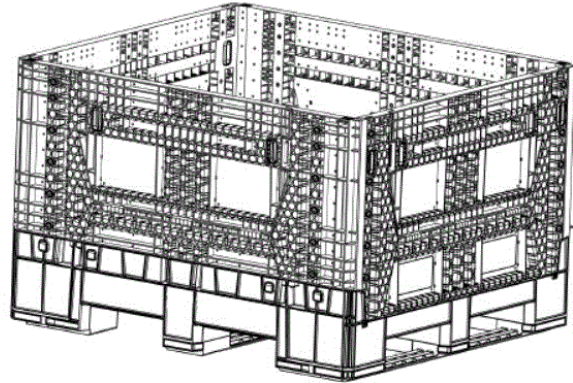


Figure 1

Three-dimensional view

21: A2023/00871 22: 2023-07-28 23:  
43: 2023-05-02  
52: Class 09 24: Part A  
71: TW America Inc.  
33: US 31: 29/891,181 32: 2023-05-02

**54: CONTAINERS**

57: The design is for a container. The container is a modular and variable-length container that can be changed in length by changing only two end portions and two side portions. The container has a generally rectangular profile with rectangular front and rear faces and rectangular opposite faces. Each of the front and rear faces define a pair of spaced apart windows at an upper portion thereof. Each of the opposite faces comprise a pair of spaced apart square shaped windows at an upper portion thereof and a pair of spaced apart rectangular windows at a lower portion thereof. A base of the container comprises spaced apart legs which define channels between them and define laterally spaced apart rectangular windows. The exterior of the container has a textured surface that comprises a mixture of geometric shapes and the design of the exterior helps distinguish the container from other container types.

21: A2023/00873 22: 2023-07-28 23:  
43: 2023-01-30  
52: Class 12 24: Part A  
71: Chery Automobile Co., Ltd.  
33: CN 31: 202330019518X 32: 2023-01-30

**54: AUTOMOBILES**

57: The design is for an automobile. A front of the automobile has a large polygon grille with straight decorative bars inside, resembling a waterfall design. The bars have been intricately arranged to enhance a three-dimensional feel. Narrow and elongated headlights are provided on the sides. Multiple prominent contour lines are provided on a hood and a three-part lower intake, giving the front a more aggressive appearance. A side profile of the automobile is longer and exudes a sporty vibe, with a straight and rising waistline that extends from the front headlights to the rear taillights, further enhancing the visual length of the automobile. The automobile has a floating roof and concealed door handles. A rear of the automobile combines a rugged and layered look and includes a continuous taillight setup, a large-size spoiler on the roof, and a dual-exhaust layout. A strip is added below the taillights, elevating the sophistication of the rear design.

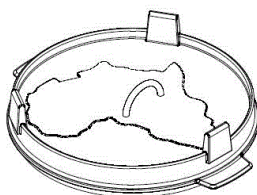


Figure 1  
Three-dimensional view

21: A2023/00876 22: 2023-07-31 23:  
43: 2023-07-31  
52: Class 7 24: Part A  
71: MEGA GROUP HOLDINGS (PTY) LTD.

**54: LIDS FOR COOKING POTS**

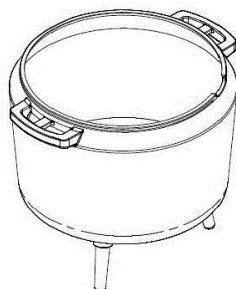
57: The features of the design for which protection is claimed reside in the shape and/or configuration and/or ornamentation of a lid for a cooking pot, substantially as shown in the accompanying representations.



21: A2023/00877 22: 2023-07-31 23:  
43: 2023-07-31  
52: Class 7 24: Part A  
71: MEGA GROUP HOLDINGS (PTY) LTD.

**54: COOKING POTS**

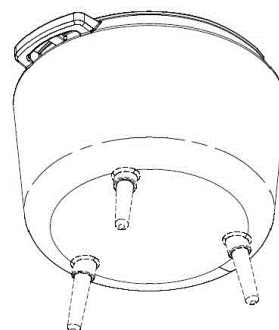
57: The features of the design for which protection is claimed reside in the shape and/or configuration and/or ornamentation of a cooking pot, substantially as shown in the accompanying representations.



21: A2023/00878 22: 2023-07-31 23:  
43: 2023-07-31  
52: Class 7 24: Part A  
71: MEGA GROUP HOLDINGS (PTY) LTD.

**54: COOKING POTS**

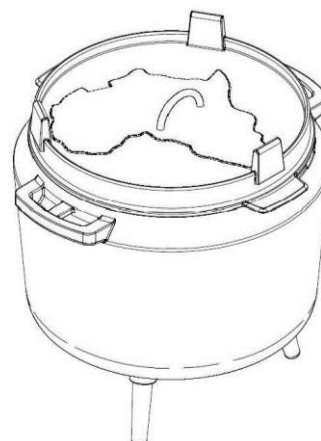
57: The features of the design for which protection is claimed reside in the shape and/or configuration and/or ornamentation of a cooking pot, substantially as shown in the accompanying representations.



21: A2023/00879 22: 2023-07-31 23:  
43: 2023-07-31  
52: Class 7 24: Part A  
71: MEGA GROUP HOLDINGS (PTY) LTD.

**54: SETS OF COOKING POTS AND LIDS THEREFOR**

57: The features of the design for which protection is claimed reside in the shape and/or configuration and/or ornamentation of a set of a cooking pot and a lid therefor, substantially as shown in the accompanying representations.



21: A2023/00880 22: 2023-07-31 23:  
43: 2023-07-31  
52: Class 7 24: Part A  
71: MEGA GROUP HOLDINGS (PTY) LTD.

## 54: SETS OF COOKING POTS AND LIDS THEREFOR

57: The features of the design for which protection is claimed reside in the shape and/or configuration and/or ornamentation of a set of a cooking pot and a lid therefor, substantially as shown in the accompanying representations.

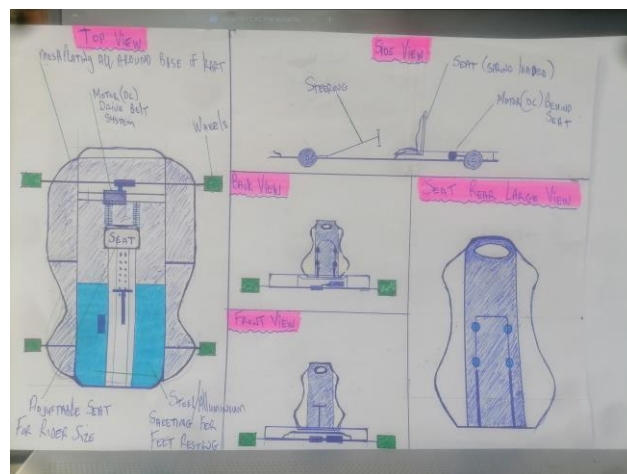


21: A2023/00888 22: 2023-08-07 23:  
43: 2024-04-10

52: Class 12 24: Part A  
71: Michael Noel Loubser

## 54: EZ KART

57: The kart will be made of steel round tubing. It will be small and very light (user friendly for parents). Seat is a mix of round bar and plastic.. The round bar around seat Area will be covered in foam for rider comfort/protection. Aluminium mesh will be used all around base of kart. Longboard wheels will be used. Seat backrest will be detachable and be able to be laid flat on kart and secured firmly with the use of built in/embedded magnets. Steering/rod will be telescopic and detachable too. Kart will make use of electric dc motors from either a cordless drill/electric wheel chair/elec skateboard and will have rechargeable battery packs mounted on all karts. Karts will have reverse functionality and a variable speed pedal. Toddlers kart not more than 15km/h.



21: A2023/00900 22: 2023-08-14 23:  
43: 2024-03-11  
52: Class 12 24: Part A  
71: MAHINDRA & MAHINDRA LIMITED  
33: IN 31: 392462-001 32: 2023-08-10

## 54: VEHICLE

57: The design is applied to a vehicle. 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 vehicle, substantially as illustrated in the accompanying representation. Any textual matter, colours, colour combinations, surface shading, shadows or reflections shown in the accompanying representation do not form part of the design and are disclaimed.



21: A2023/00901 22: 2023-08-14 23:  
43: 2024-03-11  
52: Class 12 24: Part A  
71: MAHINDRA ELECTRIC AUTOMOBILE LIMITED  
33: IN 31: 392466-001 32: 2023-08-10  
**54: VEHICLE**



57: The design is applied to a vehicle. 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 vehicle, substantially as illustrated in the accompanying representation. Any textual matter, colours, colour combinations, surface shading, shadows or reflections shown in the accompanying representation do not form part of the design and are disclaimed.



21: A2023/00945 22: 2023-08-25 23:  
43: 2024-03-11  
52: Class 09 24: Part A  
71: CHOCOLADEFABRIKEN LINDT & SPRÜNGLI  
AG  
33: IB 31: DM/230 553-1 32: 2023-07-20

#### **54: PACKAGING FOR FOODSTUFFS**

57: The design is applied to packaging for foodstuffs. 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 packaging for foodstuffs, substantially as illustrated in the accompanying representation.

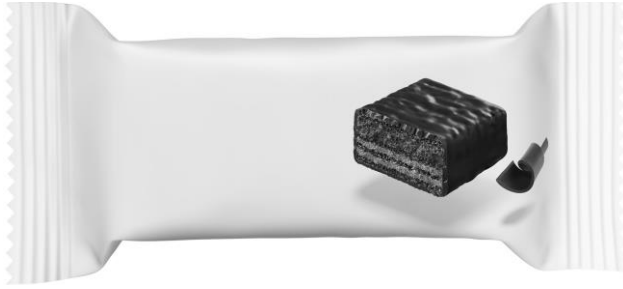


21: A2023/00946 22: 2023-08-25 23:  
43: 2024-03-11  
52: Class 09 24: Part A  
71: CHOCOLADEFABRIKEN LINDT & SPRÜNGLI  
AG  
33: IB 31: DM/230 553-8 32: 2023-07-20

#### **54: PACKAGING FOR FOODSTUFFS**

57: The design is applied to packaging for foodstuffs. 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 packaging for foodstuffs, substantially as illustrated in the accompanying representation.





21: A2024/00020 22: 2024-01-09 23:

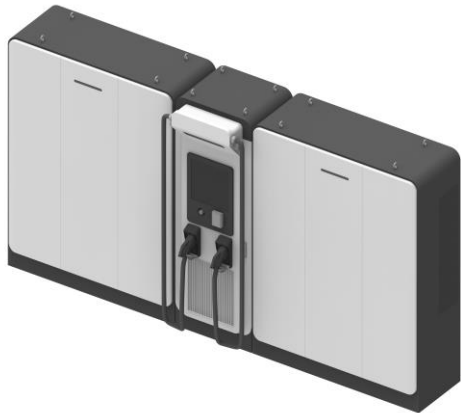
43: 2024-02-02

52: Class 13 24: Part A

71: Renon Technology (Shenzhen) Co.,Ltd

#### **54: BATTERY RECHARGERS**

57: The design pertains to battery rechargers. The purpose of the industrial design product is to be used for the achievement transformation and technical protection of distributed energy storage products. The features of the design for which protection is claimed reside in the shape and/or configuration and/or pattern of battery rechargers, substantially as shown in the accompanying representations.



21: F2021/00773 22: 2021-07-01 23:

43: 2022-08-15

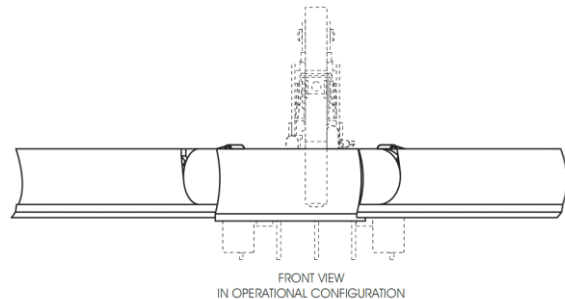
52: Class 15 24: Part F

71: VAN DE MERWE, Christiaan Hendrik Gert

#### **54: CONTOUR MAKER**

57: The design is in respect of a contour making apparatus provided with a rotatable table to which a link arm is pivotably mounted, and onto which an assembly of three substantially similar shaped scraper blades are connected, each being independently moveable relative to the other by means of a hinge mechanism to permit displaceability between a folded configuration and a lengthwise extended configuration. The two

peripheral blades flank a central blade and each of the three blades comprises a lateral distal end portion opposite a lateral proximal end portion, which end portions are disposed on a longitudinal axis of each of the respective blades. The lengthwise extent of each of the respective blades are greater than the width thereof.



21: F2022/00246 22: 2022-03-11 23:

43: 2024-03-19

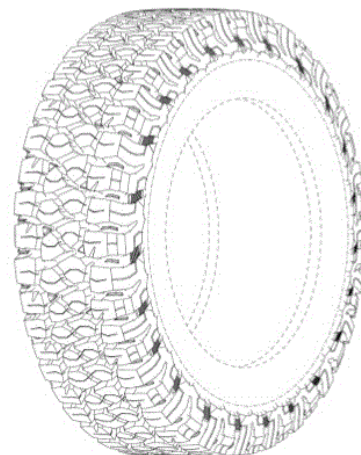
52: Class 12 24: Part F

71: COMPAGNIE GENERALE DES  
ETABLISSEMENTS MICHELIN

33: US 31: 29/807458 32: 2021-09-12

#### **54: TYRE THREAD**

57: The design is to be applied to a tyre thread. 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.



FRONT RIGHT PERSPECTIVE VIEW

21: F2022/00686 22: 2022-06-20 23:

43: 2024-03-20

52: Class 13 24: Part F

71: HELLERMANNTYTON (PTY) LTD

**54: SEAL ARRANGEMENT FOR A CABLE GLAND**

57: The features of the design for which protection is claimed comprise the shape and/or configuration of a seal arrangement, substantially as illustrated in the accompanying representations.



PERSPECTIVE VIEW

21: F2022/00688 22: 2022-06-20 23:

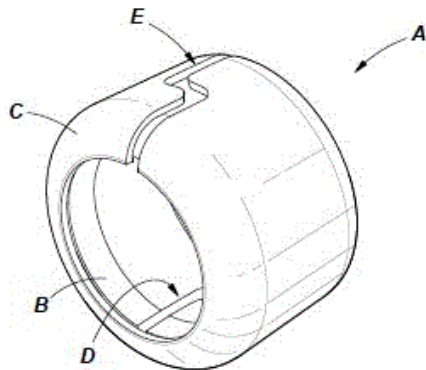
43: 2024-03-20

52: Class 13 24: Part F

71: HELLERMANNTYTON (PTY) LTD

**54: CABLE GRIPPING ARRANGEMENT FOR A CABLE GLAND**

57: The features of the design for which protection is claimed comprise the shape and/or configuration of a cable gripping arrangement A (comprising inner member B and outer member C, each defining respective slots D and E), substantially as illustrated in the accompanying representations and irrespective of the shape of slots D and E.



FIRST PERSPECTIVE VIEW

21: F2022/01514 22: 2022-11-23 23: 2022-11-03

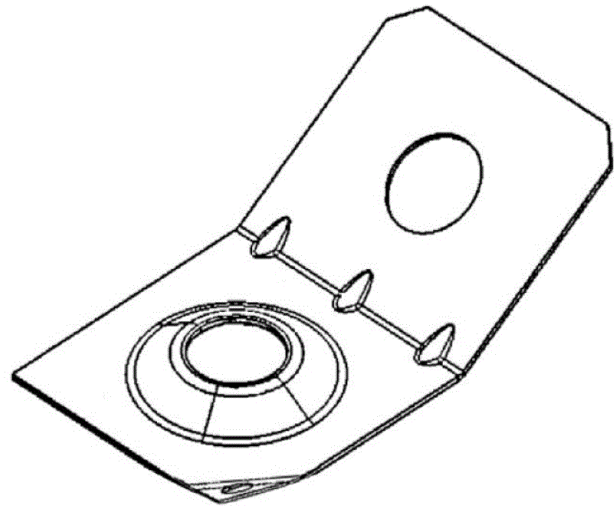
43: 2024-01-17

52: Class 25 24: Part F

71: JOZISCAPE (PTY) LTD

**54: A SUPPORT FOR A ROCK BOLT**

57: The design is applied to a support for a rock bolt. The features of the design for which protection is claimed reside in the shape and/or configuration of a support for a rock bolt including a rock bolt receiving aperture defined in a first section of the support, part of the first section located towards a periphery of the rock bolt receiving aperture being raised, the support further including a mounting formation extending from the first section which includes a generally rounded receiving aperture defined therethrough and rib formations extending between the first section and the mounting formation, substantially as shown in the accompanying representations, showing the overall appearance thereof.



21: F2023/00071 22: 2023-01-16 23: 2022-10-05

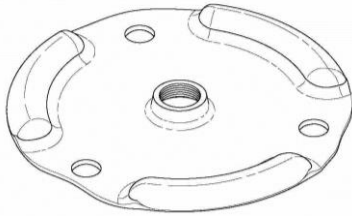
43: 2022-10-05

52: Class 8 24: Part F

71: ADAMS, Frederik Jacobus

**54: Leg Brackets**

57: This design relates to a bracket, particularly a leg bracket for mounting legs to top objects such as chairs, tables, and the like substantially as shown in the representations. The bracket has a circular body with a central aperture provided therethrough. Peripheral lobes protrude from an upper surface of the body with corresponding indentations provided on an opposite lower surface thereof. The lobes are provided adjacent the circumference of the body. The body also defines a mounting apertures which are provided around the central aperture.



Three-dimensional view from top

21: F2023/00164 22: 2023-02-06 23:

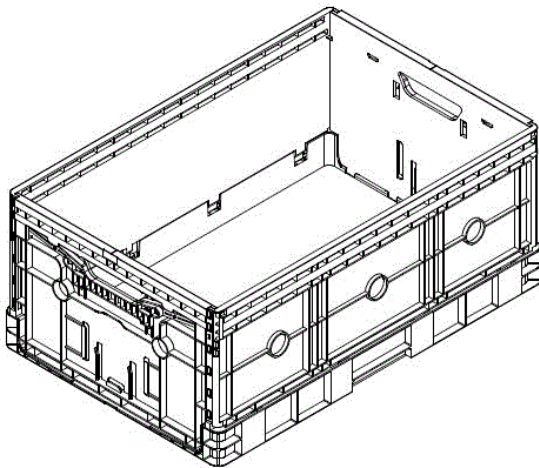
43: 2023-02-06

52: Class 9 24: Part F

71: MPact Plastic Containers Proprietary Limited

**54: Crates**

57: The design relates to a crate as shown in the accompanying representations. The crate is open-topped and has a generally rectangular shape in an erected configuration of the crate and comprises a base wall, a pair of opposite side walls and a pair of opposite end walls. The crate is collapsible when not in use, with the end walls and the side walls being hingedly foldable onto the base wall forming a compact space-saving arrangement. Handles with associated latching mechanisms are mounted to external sides of the end walls. The underside of the base wall has a centrally-positioned inner rectangular grid pattern and an outer grid pattern surrounding the inner grid pattern.



Three-dimensional view from top

21: F2023/00279 22: 2023-02-27 23:

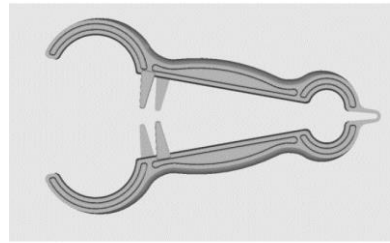
43: 2024-02-12

52: Class 8 24: Part F

71: GLASS, Alwyn, HACKLAND, Gail, HACKLAND, Kenneth, Desmond, ROETS, Peter, Andre

**54: PAINT REMOVING SCRAPER**

57: The drawing shows a top view of a paint removing scraper showing the overall appearance thereof.



21: F2023/00414 22: 2023-04-04 23:

43: 2024-02-07

52: Class 22 24: Part F

71: GARRISON TECHNOLOGY (PTY) LTD

**54: A CHEEK REST FOR A FIREARM**

57: The design is applied to a cheek rest for a firearm. The features of the design for which protection is claimed are those of the shape and/or configuration of the cheek rest for a firearm, substantially as illustrated in the accompanying representation. Features shown in broken lines do not form part of the design and are disclaimed.

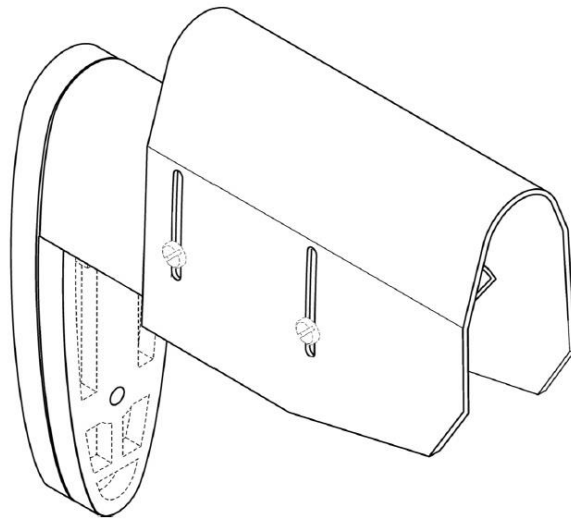


FIG. 24

THREE-DIMENSIONAL FRONT VIEW OF A  
CHEEK REST

21: F2023/00559 22: 2023-05-10 23:

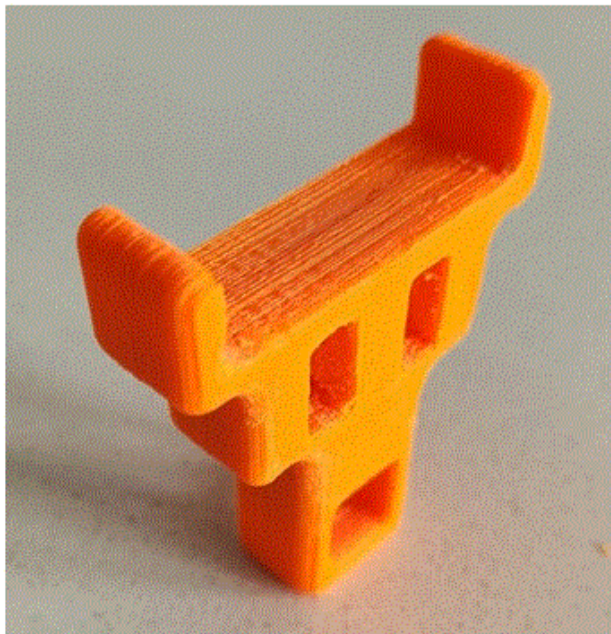
43: 2024-02-12

52: Class 13 24: Part F

71: NIENHUIS, Jan, Balster

**54: BRACKET (3) FOR MOUNTING SOLAR PANELS**

57: The design relates to a Bracket for Mounting Solar Panels. The features of the design are those of shape and/or configuration. Figures 7 and 8 is for illustrative purposes only and does not form part of the design.



21: F2023/00715 22: 2023-06-26 23:  
43: 2024-02-09  
52: Class 09 24: Part F  
71: TEQAL (PTY) LTD

**54: LID FOR A CONTAINER**

57: The features of the design for which protection is claimed reside in the shape and/or configuration of a lid for a container substantially as shown in the accompanying representations, and irrespective of the features shown in broken lines which are disclaimed.



Figure 1

Perspective view from the top of a lid

21: F2023/00716 22: 2023-06-26 23:  
43: 2024-02-09  
52: Class 09 24: Part F  
71: TEQAL (PTY) LTD

**54: CONTAINER**

57: The features of the design for which protection is claimed reside in the shape and/or configuration of a container substantially as shown in the accompanying representations, and irrespective of the features shown in broken lines which are disclaimed.



Figure 1

Perspective view from the top of a container

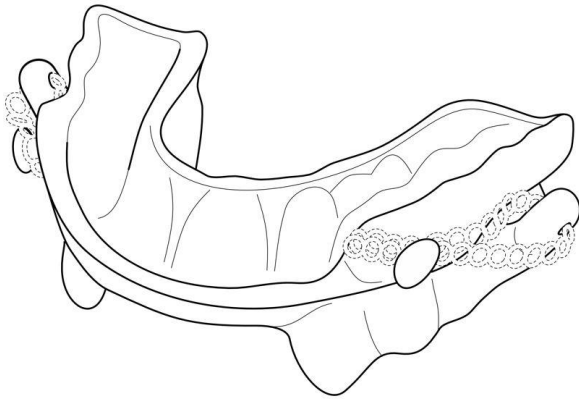
21: F2023/00723 22: 2023-06-28 23:  
43: 2024-02-07  
52: Class 24 24: Part F



71: BOSHOF, George Stott

**54: MANDIBULAR ADVANCEMENT DEVICE**

57: The design is applied to a mandibular advancement device. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the mandibular advancement device, substantially as illustrated in the accompanying representation. Features shown in broken lines do not form part of the design and are disclaimed.



21: F2023/00726 22: 2023-06-28 23:

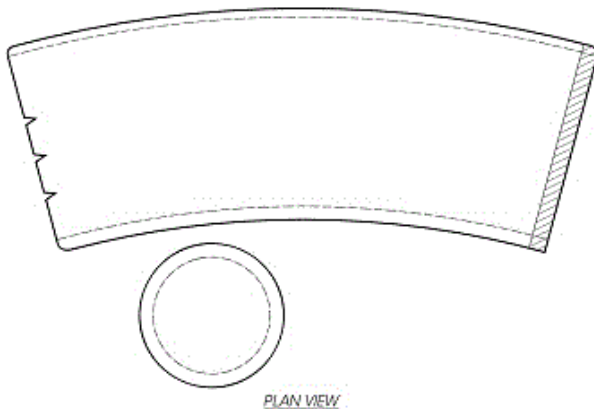
43: 2024-02-12

52: Class 7. 24: Part F

71: DETPAK SOUTH AFRICA

**54: Blank for a Cup**

57: The design relates to a blank for a cup. The features of the design are those of shape and/or configuration and/or pattern.



21: F2023/00741 22: 2023-07-06 23:

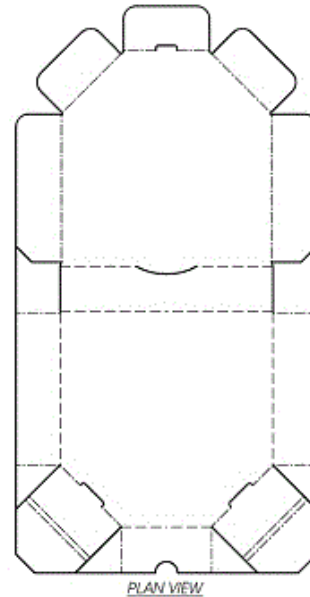
43: 2024-02-07

52: Class 9. 24: Part F

71: MPACT LIMITED

**54: Blank for a Box**

57: The design relates to blank for a box. The features of the design are those of shape and/or configuration and/or pattern.



21: F2023/00743 22: 2023-07-06 23:

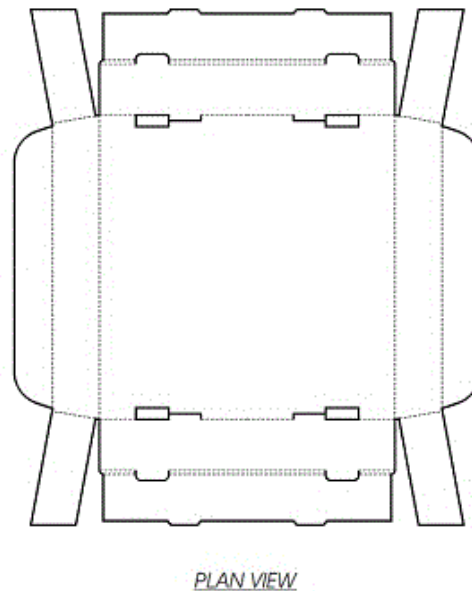
43: 2024-02-14

52: Class 9. 24: Part F

71: MPACT LIMITED

**54: Blank for a Stackable Tray**

57: The design relates to a blank for a stackable tray. The features of the design are those of shape and/or configuration and/or pattern.



21: F2023/00744 22: 2023-07-06 23:

43: 2024-02-07

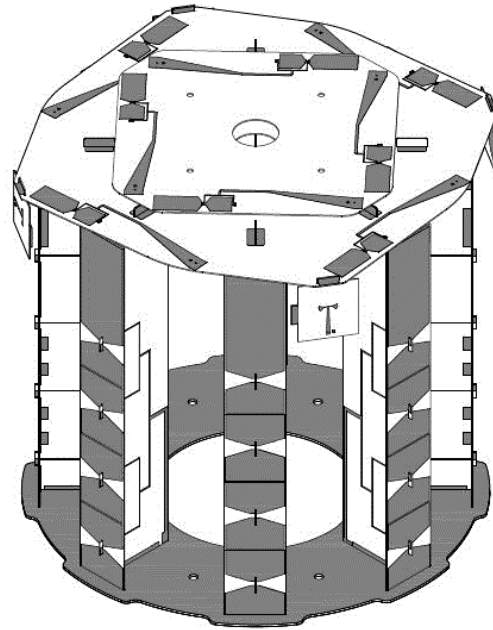
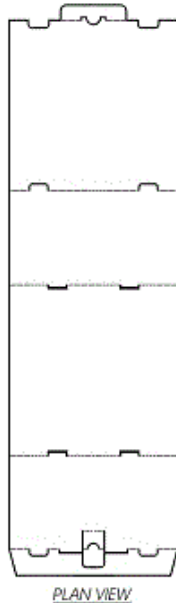


52: Class 9. 24: Part F

71: MPACT LIMITED

**54: Blank for a Sleeve for Stackable Trays**

57: The design relates to a blank for a sleeve for stackable trays. The features of the design are those of shape and/or configuration and/or pattern.



PERSPECTIVE VIEW

21: F2023/00780 22: 2023-07-11 23:

43: 2024-03-15

52: Class 14 24: Part F

71: POYNTING ANTENNAS (PTY) LIMITED

**54: ANTENNA ASSEMBLY**

57: The features of the design for which protection is claimed comprise the shape and/or configuration and/or pattern of an antenna assembly comprising conductive parts (shown shaded) on substrates A, B and C as illustrated in the accompanying representations, irrespective of the shape of the substrates A, B and C.

21: F2023/00846 22: 2023-07-24 23:

43: 2024-02-09

52: Class 25 24: Part F

71: LEANDER GROUP PROPRIETARY LIMITED

**54: FASCIA BOARD**

57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of a fascia board substantially as shown in the representation, the design including a pair of substantially parallel outer panels attached at the ends thereof and defining a main portion having a small end portion includes additional ribs to provide structural support to the fascia board, wherein a plurality of ribs are arranged between the outer panels at an oblique or substantially diagonal angle.

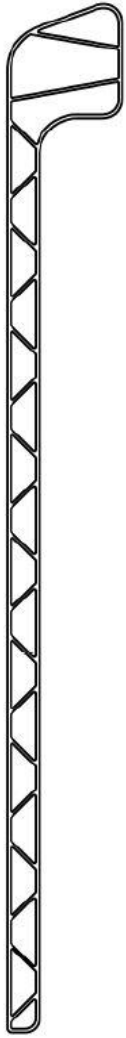


Figure 7

Right Side View

21: F2023/00847 22: 2023-07-24 23:  
43: 2024-02-09  
52: Class 25 24: Part F  
71: LEANDER GROUP PROPRIETARY LIMITED

**54: HOLLOW BARGE**

57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of a hollow barge substantially as shown in the representation, the design including a pair of substantially parallel outer panels attached at the ends thereof and defining a main portion having a first small end portion extending therefrom at a first end region and a second smaller end portion located at a second end region arranged substantially perpendicular relative to the main portion, wherein a

plurality of ribs are arranged between the outer panels at an oblique or substantially diagonal angle, and wherein the first small end portion includes additional ribs to provide structural support to the hollow barge.

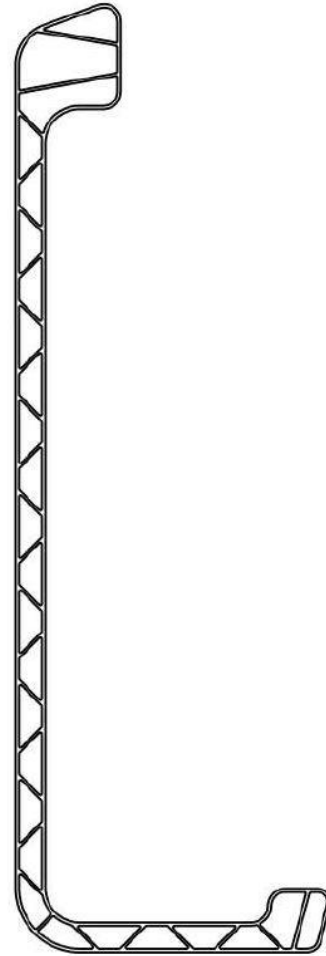


Figure 7

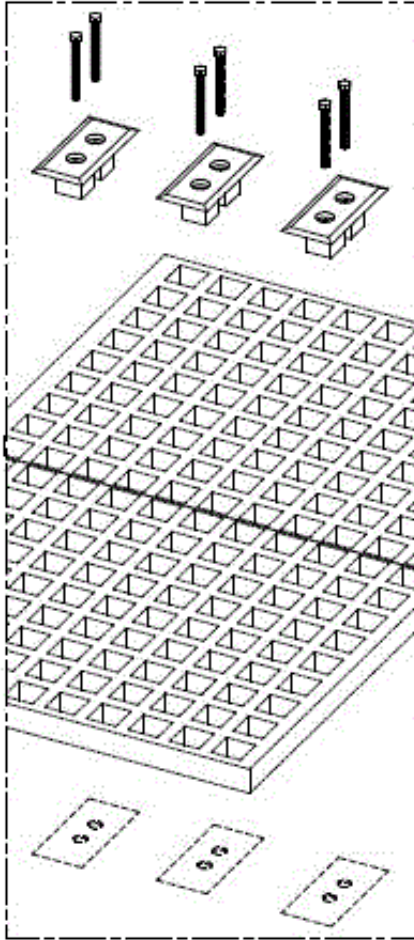
Right Side View

21: F2023/00869 22: 2023-07-28 23:  
43: 2023-07-28  
52: Class 8 24: Part F  
71: PALISADE ETCETERA PROPRIETARY LIMITED

**54: Mounting Brackets**

57: The design relates to a mounting bracket for use in fastening one or more foraminous panels such as fibre-reinforced polymer grating panels having a plurality of square holes arranged in a grid pattern, to an underlying support structure. The mounting bracket includes a pair of spaced spigot bodies having complementary square configurations in cross-section, which are received in adjacent holes

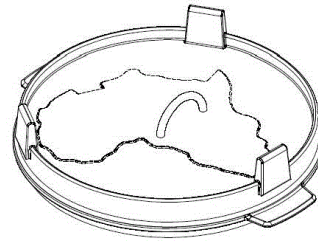
of the grating panel or in adjacent holes of two grating panels arranged side-by-side, wherein the mounting bracket bridges a joint line between the grating panels for connecting the panels to one another and an underlying support structure. Each spigot body defines a through hole for receiving a fastener. The mounting bracket includes a rectangular top flange plate from which the spigot bodies extend. A bottom plate not forming part of the design, is provided at an opposite side of the support structure for receiving ends of the fasteners.



Exploded view in use

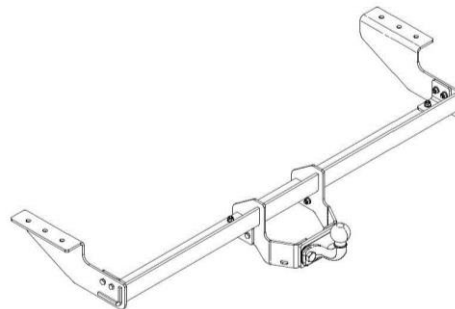
21: F2023/00881 22: 2023-07-31 23:  
43: 2023-07-31  
52: Class 7 24: Part F  
71: MEGA GROUP HOLDINGS (PTY) LTD.  
**54: LIDS FOR COOKING POTS**

57: The features of the design for which protection is claimed reside in the shape and/or configuration of a lid for a cooking pot, substantially as shown in the accompanying representations.



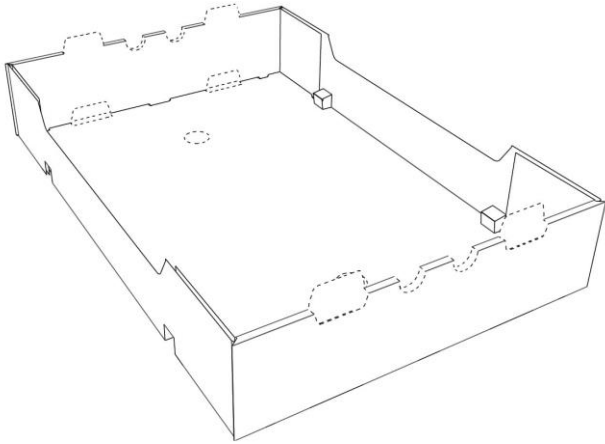
21: F2023/00885 22: 2023-07-31 23:  
43: 2023-07-31  
52: Class 12 24: Part F  
71: BOSAL AFRICA (PTY) LTD  
**54: TOW BAR ASSEMBLIES**

57: The design relates to a tow bar assembly which is configured to be attached to a vehicle using conventional mechanical fasteners. The tow bar assembly includes a conventional tow ball which is operatively secured to a ball mount which includes a pair of inwardly angled shoulders, each of which has an L-shaped cut-out through which a laterally extending, elongate, L-shaped tow bar is slid during assembly. The tow bar assembly also includes a pair of outwardly flanged mounting arms which are operatively secured to opposing ends of the tow bar using suitable mechanical fasteners. The tow bar assembly is characterised in that it is absent of any form of welding and is assembled using mechanical fasteners only.



21: F2023/00919 22: 2023-08-21 23:  
43: 2024-03-11  
52: Class 09 24: Part F  
71: APL CARTONS (PTY) LTD  
**54: CONTAINER**

57: The design is for a rectangular, stackable container with holding tabs at its bottom edges that form automatically when the container is erected and serve to hold internal flaps of the container in position.



21: F2023/00925 22: 2023-08-23 23:

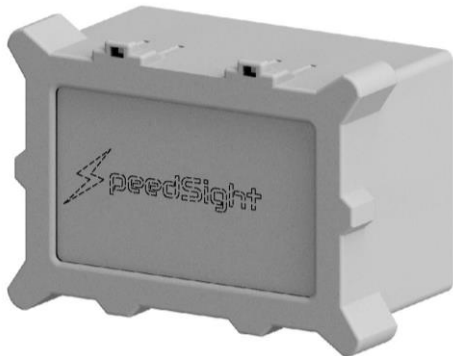
43: 2024-03-11

52: Class 14 24: Part F

71: Willcom (Pty) Ltd

**54: CAMERA HOUSING**

57: The features of the design for which novelty is claimed are the shape and / or configuration and / or pattern of a CAMERA HOUSING as shown in the accompanying representations, irrespective of the features shown in broken lines.



PERSPECTIVE VIEW

## HYPOTHECATIONS

No records available

## JUDGMENTS

No records available

## OFFICE PRACTISE NOTICES

**NOTICE TO IP STAKEHOLDERS/CLIENTS**

Due to Wednesday 29 May 2024 having been declared a public holiday in view of the national elections taking place on that day, kindly note that the publication date for the May 2024 Patent Journal will be **30 May 2024**.

**Change of address: Dennemeyer & Associates Pty Ltd is moving to the new premises****OLD ADDRESS**

Hyde Park Corner Offices, Suite 415  
Corner of William Nicol and Jan Smuts Avenue, 2196 Johannesburg, South Africa

**NEW ADDRESS**

Office F11 26 Sturdee Avenue, Rosebank, 2196 Johannesburg, South Africa



## 4. COPYRIGHT

## COPYRIGHT IN CINEMATOGRAPH FILMS

## NOTICES OF ACCEPTANCE

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: 2023/00005. 22: 2023/09/18 43: 2023/09/18  
24: 2021/01/01 to 2022/01/01; Atlanta, Georgia, U.S.A.; Brunswick, Georgia, U.S.A.; Cambridge, Massachusetts, U.S.A.  
25: 2022/11/09; France  
71: MVL Film Finance LLC, a Delaware Limited Liability Company 500 South, Buena Vista Street, Burbank, Burbank, California, 91521, United States of America  
75: MVL FILM FINANCE LLC., a Delaware Corporation 500 South, Buena Vista Street, Burbank, California, US, 91521, Email: kagisho.manyashi@adams.africa  
76: Kevin Feige;  
77: Ryan Coogler  
54: **BLACK PANTHER: WAKANDA FOREVER**  
78: Letitia Wright, Lupita Nyong'o, Danai Gurira, Winston Duke, Angela Bassett, Tenoch Huerta Mejía and Martin Freeman  
26: On appointment with Adams & Adams  
55: Specimen lodged/Not lodged.  
56: Preview Requested/Not requested  
57: Queen Ramonda, Shuri, M'Baku, Okoye, and the Dora Milaje, fight to protect their nation from interfering world powers in the wake of King T'Challa's death. As the Wakandans fight to embrace their next chapter, they band together with the help of War Dog Nakia and Everett Ross, forging a new path for the kingdom of Wakanda.

**58: DR**

21: 2023/00006. 22: 2023/09/18 43: 2023/09/18  
24: 2020/01/01 to 2023/01/01; Northumberland, United Kingdom; Scotland, United Kingdom; London United Kingdom; Marsala, Sicily, Italy; Palermo, Sicily, Italy; Trapani, Sicily, Italy.

25: 2023/06/28; United States of America  
71: LUCASFILM LTD. LLC, a California Corporation One Letterman Drive, Bldg. B, San Francisco, California, 94129, United States of America  
75: LUCASFILM LTD. LLC, a California Corporation One Letterman Drive, Bldg. B, San Francisco, California, US, 94129, Email: kagisho.manyashi@adams.africa  
76: Kathleen Kennedy, Frank Marshall and Simon Emanuel  
77: James Mangold  
54: **INDIANA JONES AND THE DIAL OF DESTINY.**  
78: Harrison Ford, Phoebe Waller-Bridge, Antonio Banderas, Karen Allen, John Rhys-Davies, Toby Jones, Mads Mikkelsen, Shaunette Renee Wilson and Thomas Krestschmann  
26: On appointment with Adams & Adams  
55: Specimen lodged/Not lodged.  
56: Preview Requested/Not requested  
57: In a rapidly changing world, Professor Indiana Jones is joined by his goddaughter on a new adventure. Together, they battle against the machinations of a former Nazi, to protect a powerful artifact from being used for his evil purposes.

**58: DR**

21: 2023/00007. 22: 2023/09/18 43: 2023/09/18  
24: 2021/01/01 to 2021/07/01; London, England and Sardinia, Italy.  
25: 2023/05/24; France  
71: DISNEY ENTERPRISES, INC., a Delaware Corporation 500 South Buena Vista Street, Burbank, California, 91521, United States of America  
75: SAND CASTLE PICTURES LIMITED, a United Kingdom Corporation 3 Queen Caroline Street,

Hammersmith, London, GB, W6 9PE, Email: kagisho.manyashi@adams.africa;  
76: Rob Marshall, John Deluca, Marc Platt and Lin-Manuel Miranda.

77: Rob Marshall

#### 54: **THE LITTLE MERMAID**

78: Halle Bailey, Jonah Hauer-King, Melissa McCarthy, Javier Bardem, Art Malik, Noma Dumezweni, Daveed Diggs Jacob Tremblay and Awkwafina

26: On appointment with Adams & Adams

55: Specimen lodged/Not lodged.

56: Preview Requested/Not requested

57: Live-action adaptation of Disney's 1989 animated film The Little Mermaid where Ariel, a free-spirited mermaid princess, longs to be part of the human world, but encounters some challenges along the way.

#### 58: **AC**

21: 2023/00008. 22: 2023/09/18 43: 2023/09/18  
24: 1999/01/01 to 2001/09/28; Emeryville, California, United States of America.

25: 2001/11/02; United States of America

71: DISNEY ENTERPRISES, INC., a Delaware Corporation 500 South Buena Vista Street, Burbank, California, 91521, United States of America PIXAR, a California Corporation 1200 Park Avenue, Emeryville, California, 94608, United States of America

75: PIXAR, a California Corporation 1200 Park Avenue, Emeryville, California, US, 94608, Email: kagisho.manyashi@adams.africa

76: Pete Docter

77: Darla K. Anderson

#### 54: **MONSTERS, INC.**

78: John Goodman, Billy Crystal, Mary Gibbs, Steve Buscemi, James Coburn, Jennifer Tilly and Frank Oz

26: On appointment with Adams & Adams

55: Specimen lodged/Not lodged.

56: Preview Requested/Not requested

57: Monsters, Inc. is the largest scare factory in the monster world and the top kid Scarer is James "Sully" Sullivan, a huge intimidating monster with blue fur, large purple spots and horns. His Scare Assistant, best friend and roommate is Mike Wazowski, a lime green, opinionated, fiesty, one-eyed monster. Scaring children isn't such an easy job--monsters believe children are toxic and that direct contact with them would be catastrophic. Inside the factory can also be found the factory's crab-like CEO, the beguiling serpenthaired receptionist Celia and the sarcastic chameleon

monster, Randall Boggs, who schemes to replace Sully as Monsters, Inc.'s top Scarer. Visiting from the human world is Boo, a tiny girl who turns the monster world upside-down.

#### 58: **AC**

21: 2023/00009. 22: 2023/09/18 43: 2023/09/18

24: 2021/01/01 to 2021/12/01; San Francisco, California, U.S.A.; Los Angeles, California, U.S.A.; Atlanta, Georgia, U.S.A.; Pinewood Studios, England, UK; London, England, UK; Cappadocia, Turkey; Nevsehir, Turkey

25: 2023/02/15; Philippines

71: MVL FILM FINANCE LLC., a Delaware Corporation 500 South Buena Vista Street, Burbank, California, 91521, United States of America

75: MVL FILM FINANCE LLC., a Delaware Corporation 500 South Buena Vista Street, Burbank, California, US, 91521, Email:

kagisho.manyashi@adams.africa

76: Kevin Feige;

77: Peyton Reed

#### 54: **ANT-MAN AND THE WASP: QUANTUMANIA**

78: Chris Pratt, Zoe Saldana, Chukwudi Iwuji, Bradley Cooper, Pom Klementieff, Dave Bautista, Karen Gillan and Vin Diesel

26: On appointment with Adams & Adams

55: Specimen lodged/Not lodged.

56: Preview Requested/Not requested

57: In Marvel Studios "Guardians of the Galaxy Vol. 3" our beloved band of misfits are looking a bit different these days. Peter Quill, still reeling from the loss of Gamora, must rally his team around him to defend the universe along with protecting one of their own. A mission that, if not completed successfully, could quite possibly lead to the end of the Guardians as we know them.

#### 58: **DR**

21: 2024/00001. 22: 2024/01/22 43: 2024/01/22

24: 2021/01/01 to 2022/01/01; Burbank, California, United States of America

25: 2022/11/23; United States of America

71: DISNEY ENTERPRISES, INC., a Delaware Corporation, 500 South Buena Vista St, Burbank, California, 91521, United States of America

75: WALT DISNEY ANIMATION STUDIOS., an alternate designation of WALT DISNEY PICTURES, a California Corporation, 500 S. Buena Vista St, Burbank, California, US, 91521, Phone:

0124326000, Email:

kagisho.manyashi@adams.africa

76: Roy Conli

77: Don Hall & Qui Nguyen

**54: STRANGE WORLD**

78: Jake Gyllenhaal, Lucy Liu, Dennis Quaid, Gabrielle Union, Jaboukie Young-White  
 26: On appointment with Adams & Adams  
 55: Specimen lodged/Not lodged.  
 56: Preview Requested/Not requested  
 57: This action-adventure film journeys deep into an uncharted and treacherous land where fantastical creatures await the legendary Clades, a family of explorers whose differences threaten to topple their latest – and by far – most crucial mission.

**58: CO**

21: 2024/00002. 22: 2024/01/22 43: 2024/01/22  
 24: 2021/01/01 to 2023/01/01; Emeryville, California, United States of America  
 25: 2023/06/14; Philippines  
 71: DISNEY ENTERPRISES, INC., a Delaware Corporation 500 S. Buena Vista Street, Burbank, California, 91521, United States of America  
 PIXAR, a California Corporation  
 1200 Park Ave, Emeryville, California, 94608, United States of America  
 75: PIXAR, a California Corporation 1200 Park Ave, Emeryville, California, US, 94608, Phone: 0124326000, Email: kagisho.manyashi@adams.africa  
 76: Denise Ream  
 77: Peter Sohn

**54: ELEMENTAL**

78: Leah Lewis; Mamoudou Athie; Ronnie del Carmen; Shila Ommi; Wendi McLendon-Covey; Catherine O'Hara; Mason Wertheimer; Ronobir Lahiri; Joe Pera  
 26: On appointment with Adams & Adams  
 55: Specimen lodged/Not lodged.  
 56: Preview Requested/Not requested  
 57: Animated film set in Element City, where fire, water, land and air residents live together. The story introduces Ember, a tough, quick-witted and fiery young woman, whose friendship with a fun, sappy, go-with-the-flow guy named Wade challenges her beliefs about the world they live in.

**58: CA**

21: 2024/00004. 22: 2024/02/20 43: 2024/02/20  
 24: 2023/08/04 to 2023/08/13; Hermanus  
 25: 2023/12/02; Labia Theatre, Cape Town  
 71: Kiresh Bedhesi  
 1 Sisley Crescent, 201 Natalia, Bougain Villas, Cape Town, 7441, South Africa  
 75: Kiresh Bedhesi 1 Sisley Crescent, 201 Natalia, Bougain Villas, Cape Town, ZA, 7441, Phone: 0764622509, Email: kiresh.bedhesi@gmail.com

76: Kiresh Bedhesi

77: Kiresh Bedhesi

**54: Wilting of the Blood Orchid**

78: James Stoffberg; Chanté Holloway  
 26: Labia Theatre, Gardens, Cape Town  
 Digital Cinema Package Rec709 Gamma 2.4  
 2K Resolution  
 55: Specimen lodged/Not lodged.  
 56: Preview Requested/Not requested  
 57: Akil, a wealthy butchery mogul, loses his younger brother under suspicious circumstances and all signs point to his botanist wife, Madison. With no actual proof Akil turns to alcohol and unleashes his rage on his wife. But unaware to Akil, Madison is planning the perfect revenge from her repertoire of toxic botany. Her most lethal flower: The Blood Orchid.

**58: DR**

21: 2024/00005. 22: 2024/03/20 43: 2024/03/20  
 24: 2017/01/01 to 2023/01/01; South Africa  
 25: 2024/01/01; South Africa  
 71: Hermien Roelvert  
 40 Oyster Cove, The Coves Estate, Hartbeespoort, 0216, South Africa  
 75: Hermien Roelvert 40 Oyster Cove, The Coves Estate, Hartbeespoort, ZA, 0216, Phone: 0829262594, Email: hermienr@gmail.com  
 76: Hermien Roelvert  
 77: Hermien Roelvert  
**54: Diary of an Elephant Orphan**  
 78: Adine Roode; Tigere Matipedza; Samson Hwato; Godknows Chivero; Peter Rogers; Herman Khoza; Joshua Dube; Stavros Chakoma  
 26: N/A  
 55: Specimen lodged/Not lodged.  
 56: Preview Requested/Not requested  
 57: Over the past decade, Southern Africa has seen an increase in the number of orphaned and displaced elephant calves. It is this that led to the creation of an orphanage for baby elephants in South Africa. It is to this orphanage that baby Khanyisa - a 3-month-old, orphaned, albino elephant calf - is brought after being caught in a wire snare. As Adine and her team fight to save the young calf's life, the question remains: will Khanyisa be able to integrate into a new elephant family and, will the elephant herd allow the human carers into their midst to give Khanyisa milk, in the bush? By doing so, Adine and the team will prove that the Jabulani-elephant herd can change the face of elephant rehabilitation in South Africa?

**58: DO**

21: 2024/00007. 22: 2024/03/26 43: 2024/03/26  
24: 2022/10/04 to 2023/03/30; Kwazulu-Natal  
25: 2024/02/18; South Africa  
71: Mark Engels CC  
Unit 22, 3de Floor Corporate Park, 11 Sinembe Crescent,  
Sinembe Park, La Lucia Ridge, Durban,  
Kwazulu-Natal, 4021, South Africa  
75: Mark Anthony Engels 49 Newsel Road, Umdloti Beach, Durban,  
Kwazulu-Natal, ZA, 4319, Phone: 0123497800, Email: mail@svw.co.za  
76: Mark Anthony Engels; Hakeem Abebola Hakeem Kazim  
77: Mark Anthony Engels  
54: **Masinga: The Calling**  
78: Hakeem Abebola Kazim; Shamilla Miller; Sean Cameron  
26: N/A  
55: Specimen lodged/Not lodged.  
56: Preview Requested/Not requested  
57: UK Based detective returns to his homeland to investigate a crime.

58: DR

---



**HYPOTHECATIONS**

No records available

**JUDGMENTS**

No records available

**OFFICE PRACTICE NOTICES****NOTICE TO IP STAKEHOLDERS/CLIENTS**

Due to Wednesday 29 May 2024 having been declared a public holiday in view of the national elections taking place on that day, kindly note that the publication date for the May 2024 Patent Journal will be **30 May 2024**.

---

**Change of address: Dennemeyer & Associates Pty Ltd is moving to the new premises****OLD ADDRESS**

Hyde Park Corner Offices, Suite 415  
Corner of William Nicol and Jan Smuts Avenue, 2196 Johannesburg, South Africa

**NEW ADDRESS**

Office F11 26 Sturdee Avenue, Rosebank, 2196 Johannesburg, South Africa

## 5. CORRECTION NOTICES

## TRADE MARK CORRECTION NOTICES

No records available

## PATENT CORRECTION NOTICES

These two patent applications under application no: **(2023/08786 & 2023/08787)** are erroneously appearing on the advertisement list on page **343** of the journal but they are **not** actually advertised they are advertised in this month's journal **(April 2024)**.

## DESIGN CORRECTION NOTICES

No records available

## COPYRIGHT CORRECTION NOTICES

No records available

## PATENTS

## Advertisement List for April 2024

Number of Advertised Patents: 606

Application Number	Patent Title	Filing Date
2015/06245	NEGATIVE PRESSURE WOUND CLOSURE DEVICE AND SYSTEMS AND METHODS OF USE IN TREATING WOUNDS WITH NEGATIVE PRESSURE	2015/08/26
2016/08034	VALVE ASSEMBLY	2016/11/21
2016/08257	ATTENUATED AFRICAN SWINE FEVER VIRUS VACCINE	2016/11/29
2017/02920	CARTRIDGE AND ELECTROPHOTOGRAPHIC IMAGE FORMING DEVICE	2017/04/26
2017/04645	CARTRIDGE	2017/07/10
2017/07714	CORE BARREL HEAD ASSEMBLY WITH SAFETY OVERSHOT	2017/11/14
2017/07985	RECOMBINANT MODIFIED VACCINIA VIRUS ANKARA (MVA) FOOT AND MOUTH DISEASE VIRUS (FMDV) VACCINE	2017/11/23
2017/08071	SURFACTANT-STABILIZED CYCLOHEXANEDIOXIDE OXIME FORMULATIONS	2017/11/28
2017/08234	DELIVERY SYSTEMS FOR CONTROLLED DRUG RELEASE	2017/12/04
2018/03855	PROENZYME COMPOSITION	2018/06/08
2018/07467	NOVEL ANTIBODIES SPECIFICALLY BINDING TO ZIKA VIRUS EPITOPES AND USES THEREOF	2018/11/07
2018/07495	HIGHLY WATER-SOLUBLE SALTS OF A SHORT ACTING PHENYLALKYLAMINE CALCIUM CHANNEL BLOCKER AND USES THEREOF	2018/11/08
2018/07592	TRANSGENIC PLANTS WITH INCREASED PHOTOSYNTHESIS EFFICIENCY AND GROWTH	2018/11/12
2018/08102	METHODS FOR TREATING HETEROTOPIC OSSIFICATION	2018/11/29
2018/08187	PROTECTIVE SURFACE COATINGS FOR FLOW CELLS	2018/12/04
2018/08215	DROUGHT RESISTANCE MULTIGENE CONSTRUCT	2018/12/05
2018/08312	METHODS AND COMPOSITIONS FOR GENERATING CHONDROCYTE LINEAGE CELLS AND/OR CARTILAGE LIKE TISSUE	2018/12/10

Application Number	Patent Title	Filing Date
2018/08534	PREPARATION OF (S)-N-(5-((R)-2-(2,5-DIFLUOROPHENYL)PYRROLIDIN-1-YL)PYRAZOLO[1,5-A]PYRIMIDIN-3-YL)-3-HYDROXYPYRROLIDINE-1-CARBOXAMIDE	2018/12/18
2019/02349	CARTRIDGE, PROCESS CARTRIDGE AND ELECTROPHOTOGRAPHIC IMAGE FORMING APPARATUS	2019/04/12
2019/02673	SIRP-ALPHA VARIANT CONSTRUCTS AND USES THEREOF	2019/04/29
2019/07369	TREATMENT PARADIGM FOR AN ANTI-CD19 ANTIBODY AND VENETOCLAX COMBINATION TREATMENT	2019/11/06
2019/07371	METHODS AND COMPOSITIONS FOR TREATING ALLERGIC OCULAR DISEASES	2019/11/06
2019/07372	METHODS AND COMPOSITIONS FOR TREATING INFLAMMATORY GASTROINTESTINAL DISORDERS	2019/11/06
2019/07623	T CELLS WITH REDUCED SURFACE FUCOSYLATION AND METHODS OF MAKING AND USING THE SAME	2019/11/18
2019/07624	NANOPORE SEQUENCERS	2019/11/18
2019/08035	LIGHT ENERGY FLUORESCENCE EXCITATION	2019/12/03
2019/08180	FLOW CELLS	2019/12/09
2019/08210	CATALYTICALLY ACTIVE SUBSTANCES	2019/12/10
2019/08214	ANTI-BCMA HEAVY CHAIN-ONLY ANTIBODIES	2019/12/10
2019/08330	METHOD AND FASTENING DEVICE FOR FASTENING A LINING ELEMENT	2019/12/12
2019/08376	COMPOSITIONS AND METHODS FOR CHEMICAL CLEAVAGE AND DEPROTECTION OF SURFACE-BOUND OLIGONUCLEOTIDES	2019/12/13
2019/08438	RESPIRATORY HALF MASK	2019/12/18
2019/08445	RECOMBINANT ADENOVIRUSES CARRYING TRANSGENES	2019/12/18
2019/08497	INTRAOCULAR LENS IMPLANT	2019/12/19
2019/08502	A BUCKET AND A GROUND MOVING APPARATUS INCLUDING THE BUCKET	2019/12/19
2020/00085	BIPHASIC ORAL CARE COMPOSITIONS	2020/01/07
2020/00118	METHODS AND APPARATUS FOR RECYCLING TAIL GAS IN SYNGAS FERMENTATION TO ETHANOL	2020/01/08



Application Number	Patent Title	Filing Date
2020/00220	METHOD FOR DETERMINATION BETWEEN INTRA-AND INTER-FREQUENCY OPERATIONS	2020/01/13
2020/00437	METHODS FOR THE PURIFICATION OF L-GLUFOSINATE	2020/01/22
2020/00494	NICOTINE SALTS AND METHODS OF MAKING AND USING SAME	2020/01/24
2020/00880	PUMP SYSTEM FOR HANDLING A SLURRY MEDIUM	2020/02/11
2020/00986	ENHANCER FOR T-CELLS OR B-CELLS HAVING MEMORY FUNCTION, MALIGNANT TUMOR RECURRENCE INHIBITOR, AND INDUCER FOR INDUCING MEMORY FUNCTION IN T-CELLS OR B-CELLS	2020/02/17
2020/03211	A CONJUGATE OF A TUBULYSIN ANALOG WITH BRANCHED LINKERS	2020/05/28
2020/03424	CONTINUOUS MANUFACTURING PROCESS FOR BISPECIFIC ANTIBODY PRODUCTS	2020/06/08
2020/03454	LIPID COMBINATIONS	2020/06/09
2020/03478	A CONCENTRATED SOLAR POWER RECEIVER	2020/06/10
2020/03583	CAST IRON INOCULANT AND METHOD FOR PRODUCTION OF CAST IRON INOCULANT	2020/06/15
2020/03592	CAPPING ASSEMBLY	2020/06/15
2020/03639	INTEGRATED ANTENNA ARRANGEMENT	2020/06/17
2020/03684	HERBICIDE FORMULATION IN THE FORM OF A MICROEMULSION	2020/06/18
2020/04936	PROCESS FOR THE PREPARATION OF POLYMORPH FORM B OF TREPROSTINIL DIETHANOLAMINE SALT	2020/08/11
2020/05083	SOLID FORMS OF FASORACETAM	2020/08/17
2020/05557	SYSTEMS AND METHODS FOR POWER PRODUCTION USING A CARBON DIOXIDE WORKING FLUID	2020/09/08
2020/05774	IMAGE ENCODING/DECODING METHOD AND DEVICE	2020/09/17
2020/06104	PLATINUM-CONTAINING CATALYSTS FOR COMBUSTION ENGINES	2016/03/03
2020/06415	TETRABENAZINE TRANSDERMAL DELIVERY DEVICE	2020/10/15
2020/06551	AN AEROSOL PROVISION DEVICE CONFIGURED TO RECEIVE A PLURALITY OF AEROSOLISABLE MATERIALS	2020/10/21
2020/06958	DEVICE AND METHOD FOR	2020/11/09

Application Number	Patent Title	Filing Date
2020/06986	PROCESSING OF SPRAY CANS DANTROLENE FORMULATIONS AND METHODS OF THEIR USE	2020/11/10
2020/07038	AROMA EXTRACTION	2020/11/11
2020/07045	PROCESS FOR PREPARING A ZEOLITIC MATERIAL HAVING A FRAMEWORK TYPE FER	2020/11/11
2020/07067	METHODS FOR CHARACTERIZING PROTEIN COMPLEXES	2020/11/12
2020/07152	SENSOR SYSTEM	2020/11/17
2020/07173	POLYNUCLEOTIDES FOR THE AMPLIFICATION AND DETECTION OF CHLAMYDIA TRACHOMATIS	2020/11/17
2020/07292	ACTIVATED PECTIN-CONTAINING BIOMASS COMPOSITIONS, PRODUCTS, AND METHODS OF PRODUCING	2020/11/23
2020/07299	LIGHT DETECTION DEVICES WITH PROTECTIVE LINER AND METHODS RELATED TO SAME	2020/11/24
2020/07682	COMPOSITION COMPRISING ANTISENSE OLIGONUCLEOTIDE AND USE THEREOF FOR TREATMENT OF DUCHENNE MUSCULAR DYSTROPHY	2020/12/09
2020/07715	CONTROLLED REMOVAL OF IONS FROM AQUEOUS FLUID	2020/12/10
2020/07837	INTERPOSER WITH FIRST AND SECOND ADHESIVE LAYERS	2020/12/15
2020/07840	METHODS FOR IMPROVING POLYNUCLEOTIDE CLUSTER CLONALITY PRIORITY	2020/12/15
2020/07846	FLOW CELLS AND METHODS RELATED TO SAME	2020/12/15
2020/07847	SENSING SYSTEMS	2020/12/15
2020/07851	SENSORS HAVING AN ACTIVE SURFACE	2020/12/15
2020/07852	FLOWCELLS WITH LINEAR WAVEGUIDES	2020/12/15
2021/00338	SWEETENING COMPOSITIONS	2021/01/18
2021/01768	LOW HEADROOM JAW CRUSHING FACILITY	2021/03/16
2021/02365	BIOBASED BARRIER COATINGS	2021/04/09
2021/02492	COMPOUNDS CONTAINING DEUTERIUM	2021/04/15
2021/02941	ELECTRONIC VAPING SYSTEM	2021/04/30
2021/03675	METHOD FOR ANALYZING A BLOOD SAMPLE FROM A HUMAN FOR A TUBERCULOSIS DISEASE BY DETECTION OF TB ANTIGEN- STIMULATED CD154 EXPRESSION IN COMBINATION WITH CD38, KI-67	2021/05/28

Application Number	Patent Title	Filing Date
	OR HLA-DR	
2021/04322	ACRYLIC FOILS WITH IMPROVED UV-PROTECTION PROPERTIES	2021/06/23
2021/04551	TYRE SIDEWALL IMAGING METHOD	2021/06/30
2021/05684	METHOD OF DETECTING LEAKAGE FROM A PIPELINE	2021/08/11
2021/05797	COMPUTER IMPLEMENTED SYSTEM AND METHOD FOR DETERMINING OR VERIFYING LOCATION	2021/08/13
2021/06289	INTELLIGENT RECOGNITION AND ALERT METHODS AND SYSTEMS	2021/08/30
2021/06298	FLOW DIRECTING MEMBER FOR A VAPOUR PROVISION SYSTEM	2021/08/30
2021/06555	CONTAINER HAVING BOX AND SLEEVE WITH LOCKING MECHANISM	2021/09/07
2021/06987	METHOD AND SYSTEM OF CONSTRUCTING AN UNDERGROUND TUNNEL	2021/09/20
2021/07015	BRIDGED TRICYCLIC CARBAMOYLPYRIDONE COMPOUNDS AND THEIR PHARMACEUTICAL USE	2021/09/20
2021/07493	HYDROGEN PEROXIDE SOLUTION-PREFILLED SYRINGE HAVING EXCELLENT HYDROGEN PEROXIDE PRESERVABILITY BY VIRTUE OF SILICONE OIL (OIL COMPOSITION CONTAINING SAID SILICONE OIL)	2021/10/05
2021/07816	AUTONOMOUS MINE VEHICLE OPERATION	2021/10/14
2021/07934	IMAGE SIGNAL REPRESENTING A SCENE	2021/10/18
2021/07942	BATTERY LOAD MECHANISM FOR ELECTRIC LHD MINING MACHINE	2021/10/18
2021/08263	IMIDAZOLONYLQUINOLINE COMPOUNDS AND THERAPEUTIC USES THEREOF	2021/10/26
2021/08301	METHOD AND DEVICE FOR A NON-INVASIVE DETERMINATION AND/OR MONITORING OF INTRACRANIAL COMPLIANCE	2021/10/27
2021/08634	COMPOSITE MATERIAL BASED ON ALLOYS, MANUFACTURED IN SITU, REINFORCED WITH TUNGSTEN CARBIDE AND METHODS OF ITS PRODUCTION	2021/11/04
2021/08847	MODIFIED CLAY SORBENTS AND METHODS OF SORBING PFAS USING THE SAME	2021/11/09
2021/08890	AUDIO DECODER, APPARATUS	2021/11/10

Application Number	Patent Title	Filing Date
	FOR DETERMINING A SET OF VALUES DEFINING CHARACTERISTICS OF A FILTER, METHODS FOR PROVIDING A DECODED AUDIO REPRESENTATION, METHODS FOR DETERMINING A SET OF VALUES DEFINING CHARACTERISTICS OF A FILTER AND COMPUTER PROGRAM	
2021/08945	CRUSHING DEVICE	2021/11/11
2021/08946	CRUSHING DEVICE	2021/11/11
2021/09071	NEGATIVE PRESSURE WOUND DRESSING	2021/11/15
2021/09175	NOVEL PEPTIDE COMPOUND OR PHARMACEUTICALLY ACCEPTABLE SALT THEREOF	2021/11/17
2021/09251	PYRROLIDINE COMPOUNDS	2021/11/18
2021/09312	CRUSHING DEVICE	2021/11/19
2021/09336	A DOOR ASSEMBLY	2021/11/22
2021/09502	AUTONOMOUS VEHICLE MONITORING	2021/11/24
2021/09598	ALCOHOL DERIVATIVES AS KV7 POTASSIUM CHANNEL OPENERS	2021/11/25
2021/09828	EXOSOMES FOR DISEASE TREATMENT	2021/12/01
2021/10109	SEALED SINGLE-DOSE BREAK-OPEN PACKAGE, DEVICE AND METHOD FOR MAKING	2021/12/07
2021/10111	METHODS AND COMPOSITIONS FOR TREATING LIVER DISORDERS	2021/12/07
2021/10208	EXPRESSION OF NOVEL CELL TAGS	2021/12/09
2021/10742	A WATER-IN-OIL EMULSION COMPOSITION FOR ENHANCED DELIVERY OF WATER SOLUBLE SKIN BENEFIT AGENTS	2021/12/21
2021/10780	MUC16 SPECIFIC CHIMERIC ANTIGEN RECEPTORS AND USES THEREOF	2021/12/22
2021/10801	A MEDICINE COMPOUNDING SYSTEM	2021/12/22
2021/10854	TMPRSS6 IRNA COMPOSITIONS AND METHODS OF USE THEREOF	2021/12/23
2021/10889	STILLING VESSEL FOR SUBMERGED COMBUSTION MELTER	2021/12/23
2021/10903	GLASS MANUFACTURING PROCESS	2021/12/23
2021/10904	SELECTIVE CHEMICAL FINING OF SMALL BUBBLES IN GLASS	2021/12/23
2021/10906	FINING GLASS FROM A SUBMERGED COMBUSTION	2021/12/23

Application Number	Patent Title	Filing Date
	MELTER	
2021/10909	INSECTICIDAL PROTEINS FROM PLANS AND METHODS FOR THEIR USE	2021/12/23
2022/01246	FOLDABLE LOUNGE	2022/01/26
2022/01621	A METHOD OF REPELLING A RODENT FROM A SOWED SEED CROP	2022/02/07
2022/02293	A WHEELCHAIR	2022/02/23
2022/03873	DECORATIVE PANEL, AND DECORATIVE FLOOR COVERING CONSISTING OF SAID PANELS	2022/04/05
2022/04100	PYRIDINE OXYNITRIDE, PREPARATION METHOD THEREFOR AND USE THEREOF	2022/04/11
2022/04212	PRODUCTION OF MALIC ACID USING TUBULAR AND STIRRED TANK REACTORS	2022/04/13
2022/05078	WATER TREATMENT	2022/05/09
2022/05538	RECOVERY OF ETHYLENE OXIDE FROM STERILIZATION PROCESS	2022/05/19
2022/05641	MEASURING INSTRUMENT CALIBRATION SYSTEM AND METHOD	2022/05/23
2022/05901	CONVEYOR SEAL ASSEMBLY	2022/05/27
2022/06028	PORTION DISPENSING CONTAINER	2022/05/31
2022/06548	A SMARTPHONE EARLY WARNING SYSTEM TO DETECT THEFT OF A MOTOR VEHICLE	2022/06/07
2022/06554	HAIR GROWTH FORMULATION	2022/06/14
2022/06574	SILENCER FOR AN EXHAUST SYSTEM OF AN INTERNAL COMBUSTION ENGINE	2022/06/14
2022/07579	LOAD AND OVERLOAD DETECTION MODULES	2022/07/08
2022/08326	COATED ARTICLE COMPRISING PROTECTIVE OVERCOAT LAYERS MADE FROM TITANIUM ZIRCONIUM HAFNIUM NITRIDE AND CARBON	2022/07/26
2022/08593	IGNITER TUBE FOR A PROPELLANT CHARGE	2022/08/01
2022/08692	SEALS FOR DOCK LEVELLING SYSTEMS, AND METHODS OF SEALING GAPS IN DOCK LEVELLING SYSTEMS	2022/08/03
2022/08736	A SYSYTEM FOR AIDING EDUCATION	2022/08/04
2022/09006	PREDICTIVE MODELING OF WEAR AND HEALTH OF A DRIVEN GEAR IN AN OPEN GEAR SET	2022/08/11
2022/09294	ANTISENSE NUCLEIC ACID INDUCING SKIPPING OF EXON 51	2022/08/18



Application Number	Patent Title	Filing Date
2022/09920	TRAVEL BOOKING AND MANAGING METHOD AND SYSTEM	2022/09/06
2022/10842	METHOD AND APPARATUS FOR ENCODING/DECODING IMAGE, FOR PERFORMING DEBLOCKING FILTERING BY DETERMINING BOUNDARY STRENGTH, AND METHOD FOR TRANSMITTING BITSTREAM	2022/09/30
2022/11095	SECURITY SYSTEM	2022/10/11
2022/11242	METHOD FOR PRODUCING LIGHT OLEFIN FROM OXYGEN-CONTAINING COMPOUND	2022/10/13
2022/11681	DRIVE ELEMENT	2022/10/26
2022/11778	COMTOOL COMMUNICATION SYSTEM	2022/10/28
2022/11782	ENHANCEMENT OF PRODUCTIVITY IN C3 PLANTS	2022/10/28
2022/11890	COOLING SYSTEM	2022/11/01
2022/11894	CONTROLLING METHOD FOR INFECTIOUS DISEASE VECTOR	2022/11/01
2022/11950	REINFORCEMENT LEARNING BASED RATE CONTROL	2022/11/02
2022/11951	COMPUTER NODE OPTICAL FREE SPACE INTERCONNECTION	2022/11/02
2022/11952	USING FREE-SPACE OPTICS TO INTERCONNECT A PLURALITY OF COMPUTING NODES	2022/11/02
2022/11955	A HIGH SPF SKIN CLEANSING COMPOSITION	2022/11/02
2022/12080	CERAMIC-METAL COMPOSITE WEAR PART	2022/11/04
2022/12082	COMPOSITE WEAR PART	2022/11/04
2022/12085	COOLING PERSONAL CARE COMPOSITION COMPRISING A POLYOL AND A POLYOXYEHTYLENE-POLYOXYPROPYLENE BLOCK COPOLYMER	2022/11/04
2022/12095	IL4I1 INHIBITORS AND METHODS OF USE	2022/11/04
2022/12098	5G MULTICAST BROADCAST SERVICE HANDOVER	2022/11/04
2022/12127	CANNABICHROMENE FORMULATION FOR PAIN MANAGEMENT	2022/11/07
2022/12128	COMBINATION OF ALCAFTADINE AND A CORTICOSTEROID	2022/11/07
2022/12129	COSMETIC COMPOSITION FOR IMPROVING APPEARANCE OF SKIN	2022/11/07
2022/12130	CRUSHING STATE DETERMINING DEVICE AND CRUSHING STATE	2022/11/07

Application Number	Patent Title	Filing Date
	DETERMINING METHOD	
2022/12131	A HIGH UV PROTECTION CLEANSING COMPOSITION	2022/11/07
2022/12180	IMMUNE BOOSTER SUPPLEMENT TREATMENT KIT AND METHODS OF USE	2022/11/08
2022/12228	SUPPORT DEVICE AND WIND GENERATING SET	2022/11/09
2022/12229	WIND TURBINE GENERATOR SYSTEM, AND ROTATION SPEED AVOIDANCE CONTROL METHOD AND APPARATUS THEREFOR	2022/11/09
2022/12230	LOAD REDUCTION CONTROL METHOD FOR WIND TURBINE GENERATOR AND DEVICE	2022/11/09
2022/12231	WIND TURBINE GENERATOR SYSTEM, AND ROTATION SPEED AVOIDANCE CONTROL METHOD AND APPARATUS THEREFOR	2022/11/09
2022/12232	HYBRID DAMPING MODULE, VIBRATION SUPPRESSION DEVICE, VIBRATION SUPPRESSION METHOD, AND WIND TURBINE SET	2022/11/09
2022/12233	WIND TURBINE GENERATOR, AND MINIMUM ROTATIONAL SPEED CONTROL METHOD AND DEVICE THEREFOR	2022/11/09
2022/12234	METHOD AND APPARATUS FOR CONTROLLING POWER OF WIND FARM	2022/11/09
2022/12235	WIND TURBINE AND CONVERTER FILTER CAPACITOR SWITCHING CONTROL METHOD, DEVICE AND SYSTEM THEREFOR	2022/11/09
2022/12291	ANTICOCCIDIAL AGENT AND METHOD FOR USING THE SAME	2022/11/10
2022/12292	ARYLTETRAHYDROPYRIDAZINE DERIVATIVE OR SALT THEREOF, INSECTICIDAL AGENT CONTAINING THE COMPOUND, AND METHOD OF USE THEREOF	2022/11/10
2022/12295	WEARABLE PHYSICAL HEALTH TESTING SYSTEMS AND ASSOCIATED DEVICES AND METHODS	2022/11/10
2022/12345	SERUM STABLE BINDING PROTEINS FOR HUMAN HER2 FOR THERANOSTIC APPLICATIONS	2022/11/11
2022/12346	COMPOSITE MATERIAL WITH A COMPONENT HARVESTED FROM THE SILVERSKIN OF COFFEE CHERRIES, AND PORTION CAPSULE COMPRISING SAID	2022/11/11

Application Number	Patent Title	Filing Date
	COMPOSITE MATERIAL	
2022/12347	PORTION CAPSULE AND METHOD FOR PRODUCING A PORTION CAPSULE	2022/11/11
2022/12348	METHOD FOR PRODUCING A SINGLE-SERVE CAPSULE, AND SINGLE-SERVE CAPSULE	2022/11/11
2022/12349	SINGLE-SERVE CAPSULE	2022/11/11
2022/12401	PROCESS FOR RECOVERING TITANIUM DIOXIDE	2022/11/14
2022/12402	HAIR CONDITIONING COMPOSITION FOR IMPROVED DEPOSITION	2022/11/14
2022/12455	SYSTEMS AND METHODS FOR CONTROLLING A DISCHARGE RATE OF A HAULING MACHINE	2022/11/15
2022/12483	HINGE MODULE AND FOLDABLE ELECTRONIC DEVICE INCLUDING THE SAME	2022/11/16
2022/12510	PERITONEAL DIALYSIS SOLUTION	2022/11/16
2022/12511	ELECTRODE FOR ELECTROCHEMICAL EVOLUTION OF HYDROGEN	2022/11/16
2022/12512	HAIR CONDITIONING COMPOSITION FOR IMPROVED DEPOSITION	2022/11/16
2022/12513	WROUGHTABLE, CHROMIUM-BEARING, COBALT-BASED ALLOYS WITH IMPROVED RESISTANCE TO GALLING AND CHLORIDE-INDUCED CREVICE ATTACK	2022/11/16
2022/12523	SYSTEM AND METHOD FOR MULTI-PHASE OPTIMIZATION OF HAUL TRUCK DISPATCH	2022/11/16
2022/12551	REACTOR AND METHOD FOR CARRYING OUT A CHEMICAL REACTION	2022/11/17
2022/12557	METHOD AND APPARATUS FOR UPGRADING RADIO ACCESS NETWORK IN A COMMUNICATION SYSTEM	2022/11/17
2022/12562	IMPLANTABLE PROSTHESIS	2022/11/17
2022/12567	GUARD ASSEMBLY	2022/11/17
2022/12643	ATTACHMENT ASSEMBLY FOR ATTACHING A WEAR MEMBER TO A WORK IMPLEMENT AND LUG MEMBER FOR USE WITH AN ATTACHMENT SYSTEM FOR ATTACHING WEAR MEMBERS TO A WORK IMPLEMENT USING A SPACER	2022/11/21
2022/12650	HISTONE DEACETYLASE	2022/11/21

Application Number	Patent Title	Filing Date
	INHIBITORS FOR IMMUNOMODULATION IN TUMOR MICROENVIRONMENT	
2022/12651	PREDICTIVE MAINTENANCE SYSTEMS AND METHODS TO DETERMINE END GUN HEALTH	2022/11/21
2022/12653	METHOD AND INDUSTRIAL PLANT FOR SEPARATING A WASTE MATERIAL	2022/11/21
2022/12654	PROCESS FOR PRODUCING BRIQUETTES FROM A WASTE MATERIAL AND BRIQUETTE MADE OF A WASTE MATERIAL	2022/11/21
2022/12660	EDIBLE FOOD CASING	2022/11/21
2022/12664	CORNER SEGMENT AND CORNER SHROUD FOR A WORK IMPLEMENT	2022/11/21
2022/12665	FILTER ELEMENT INTEGRATED SEAL PROFILE	2022/11/21
2022/12704	SCALABLE NESTED SEI MESSAGE HANDLING IN VIDEO SUB-BITSTREAM EXTRACTION PROCESS	2022/11/22
2022/12707	INTELLIGENT GENETIC BREEDING AND SEED PRODUCTION SYSTEM FOR CROP CROSS BREEDING AND HYBRID SEED PRODUCTION, AND APPLICATION THEREOF	2022/11/22
2022/12708	A PERSONAL CARE COMPOSITION BASED ON TITANIUM OXIDE AND A CROSSPOLYMER OF ADIPIC ACID AND NEOPENTYL GLYCOL	2022/11/22
2022/12709	ENGINEERED WOOD STRUCTURAL SYSTEM	2022/11/22
2022/12712	CRASH CUSHION	2022/11/22
2022/12714	TREATMENT STATION, TREATMENT UNIT AND METHOD FOR TREATING WORKPIECES	2022/11/22
2022/12755	METHOD FOR PROVIDING AN UNDERGROUND BARRIER FOR A WATER RESERVOIR	2022/11/23
2022/12757	A CONTAINER	2022/11/23
2022/12773	PEPTIDES AND METHODS FOR THE TREATMENT OF MULTIPLE SCLEROSIS	2022/11/23
2022/12799	BIODEGRADABLE ADHESIVE COMPOSITION	2022/11/24
2022/12800	METHODS FOR THE PREPARATION OF SPHINGOSINE 1-PHOSPHATE RECEPTOR MODULATORS AND SOLID FORMS THEREOF	2022/11/24
2022/12850	ROOFTOP TENT	2022/11/25
2022/12854	SYSTEMS AND METHODS FOR	2022/11/25

Application Number	Patent Title	Filing Date
	COLLECTING RETINAL SIGNAL DATA AND REMOVING ARTIFACTS	
2022/12855	IMPROVED VIRUCIDAL FORMULATIONS	2022/11/25
2022/12858	ADDITIVE-COATED SHEAVE, METHOD OF MANUFACTURING THE SAME, AND METHODS OF REDUCING SOUND PRODUCED BY EQUIPMENT	2022/11/25
2022/12862	METHOD FOR THE CONTINUOUS SYNTHESIS OF PARACETAMOL	2022/11/25
2022/12908	SANITIZING COMPOSITION	2022/11/28
2022/12914	METHOD OF IMPROVING PROTEASE ACTIVITY	2022/11/28
2022/12978	HUBLESS SHEAVE	2022/11/29
2022/12979	PROCESS FOR PURIFYING A PHOSPHATE CONTAINING ACIDIC SOLUTION COMPRISING IMPURITIES AND APPARATUS FOR APPLYING SAME	2022/11/29
2022/13048	ENCODING AND DECODING METHOD AND APPARATUS, AND DEVICE THEREFOR	2022/12/01
2022/13049	IMAGE ENHANCEMENT METHOD AND APPARATUS	2022/12/01
2022/13051	CANNABIS WITH ALTERED CANNABINOID CONTENT	2022/12/01
2022/13052	TRANSACTION CARDS WITH DISCONTINUOUS METAL STRATA	2022/12/01
2022/13083	SIGNALING OF GENERAL CONSTRAIN INFORMATION	2022/12/02
2022/13085	METHOD FOR PRODUCTION OF VARICELLA ZOSTER VIRUS SURFACE PROTEIN ANTIGEN	2022/12/02
2022/13086	MOUNTING SYSTEM, MOUNTING ASSEMBLY, AND SOLAR INSTALLATION	2022/12/02
2022/13087	A UNIT DOSE CAPSULE	2022/12/02
2022/13088	AN INFECTIOUS DISEASE SCREENING DEVICE	2022/12/02
2022/13089	AN INFECTIOUS DISEASE SCREENING SYSTEM	2022/12/02
2022/13093	UNDERGROUND TANK SYSTEM AND METHOD OF MANUFACTURING AN UNDERGROUND TANK SYSTEM	2022/12/02
2022/13171	TEMPORARY POOL COVER AND FLOOR SYSTEM	2022/12/05
2022/13218	UNIT DOSE CAPSULE	2022/12/06
2022/13269	A UNIT DOSE CAPSULE	2022/12/07
2022/13271	AN ANTIMICROBIAL COMPOSITION FOR TACKLING MALODOUR	2022/12/07



Application Number	Patent Title	Filing Date
2022/13318	ANTIFUNGAL AGENT FOR USE IN HUMANS	2022/12/08
2022/13320	DISTRIBUTION OF HIGH DYNAMIC RANGE IMAGES IN A MIXED CAPABILITY PLAYBACK SYSTEM	2022/12/08
2022/13321	SENSITIZER FOR CANCER TREATMENT	2022/12/08
2022/13322	COMPOSITIONS AND METHODS FOR OVERCOMING MICROENVIRONMENT-MEDIATED RESISTANCE VIA E-SELECTIN TARGETING	2022/12/08
2022/13365	DEVICES WITH FIELD EFFECT TRANSISTORS	2022/12/09
2022/13411	SYSTEMS AND METHODS FOR ALGAE CULTIVATION USING DIRECT AIR CAPTURE	2022/12/12
2022/13432	SIGNALING CONSTRAINTS IN NON-SCALABLE NESTED VIDEO SYNTAX ELEMENTS	2022/12/12
2022/13434	ANTI-LILRB1 ANTIBODY AND USES THEREOF	2022/12/12
2022/13476	MULTI-PURPOSE AUTOMATED BLOOD CELL COUNTING DEVICE	2022/12/13
2022/13482	A MINERAL LIBERATION MACHINE	2022/12/13
2022/13534	SYSTEM AND METHOD FOR AUTHENTICATING A DEVICE ON A NETWORK	2022/12/14
2022/13535	SYSTEM AND METHOD FOR MAINTAINING A LIST OF CRYPTOGRAPHIC CERTIFICATES	2022/12/14
2022/13548	PUMP SENSOR SYSTEM	2022/12/14
2022/13605	ENCODING AND DECODING METHOD AND APPARATUS, AND DEVICE THEREFOR	2022/12/15
2022/13606	METHOD FOR THE BONDING, TRANSPORT, REACTION ACTIVATION, CONVERSION, STORAGE AND RELEASE OF WATER-SOLUBLE GASES	2022/12/15
2022/13607	PORTFOLIO OPTIMIZATION SYSTEM THAT SIMULTANEOUSLY SUPPORTS MULTIPLE TAX-EXEMPT, TAX-DEFERRED AND TAXABLE ACCOUNTS	2022/12/15
2022/13685	METHOD AND DEVICE FOR REMOVING A CHEMICAL SUBSTANCE FROM HUMAN EXCRETA	2022/12/19
2022/13688	METHOD FOR DETERMINING THE PREGNANCY STATE OF AN ANIMAL	2022/12/19
2022/13707	BISPECIFIC ANTIBODY AND USE	2022/12/19

Application Number	Patent Title	Filing Date
	THEREOF	
2022/13708	1-[1-(4-BENZYLOXY-3,5-DIFLUORO-BENZOYL)-4-FLUORO-PYRROLIDINE-2-CARBONYL]-PYRROLIDINE-2-CARBONITRILE	2022/12/19
2022/13710	ANTI-SARS-COV-2 INFECTION PROTEIN AND VACCINE	2022/12/19
2022/13759	DEVICE FOR INHALING A SUBSTANCE	2022/12/20
2022/13781	LIGAND COMPOUNDS, CONJUGATES, AND APPLICATIONS THEREOF	2022/12/20
2022/13783	RETRACTABLE CAPACITIVE SWITCH KIT	2022/12/20
2022/13870	RIB-LESS HOIST STRUCTURE FOR TRUCK BODY	2022/12/21
2022/13894	TETANUS VACCINE PLATFORM FOR EMBEDDING COVID-19 VACCINE	2022/12/21
2022/13895	METHOD FOR SYNTHESISING MACROMOLECULES IN SOLUTION FROM CARBOHYDRATE DERIVATIVE UNITS	2022/12/21
2022/13896	FASTENING APPARATUS FOR FASTENING SOLAR MODULES	2022/12/21
2022/13900	ENERGY STORAGE AND DELIVERY SYSTEM AND METHOD	2022/12/21
2022/13905	SYSTEM AND METHOD FOR MONITORING MOVEMENT OF A CRUSHER HEAD	2022/12/21
2022/13958	MODIFIED CATALYST SUPPORTS AND CATALYSTS SUPPORTED THEREON	2022/12/22
2022/13966	TEXTILE ARTICLE EQUIPPED WITH A REACH-THROUGH REGION	2022/12/22
2023/00305	A MULTIPATH STREAMING SYSTEM AND METHOD FOR PROVIDING AT LEAST ONE STREAM OF DATA PACKETS FOR MEDIA AND/OR VIDEO FROM A TRANSMITTING NODE TO A RECEIVING NODE	2023/01/06
2023/00378	GENE THERAPY USING NUCLEIC ACID CONSTRUCTS COMPRISING METHYL CPG BINDING PROTEIN 2 (MECP2) PROMOTER SEQUENCES	2023/01/09
2023/00827	ROTARY FEED-THROUGH, IN PARTICULAR FOR REGULATING TYRE PRESSURE	2023/01/18
2023/01024	APPARATUS, METHOD AND COMPUTER PROGRAM FOR ENCODING AN AUDIO SIGNAL OR FOR DECODING AN ENCODED	2023/01/24

Application Number	Patent Title	Filing Date
	AUDIO SCENE	
2023/01025	CATHETER ARRANGEMENT INCLUDING A VALVE ELEMENT ELASTICALLY DEFORMABLE BY FLUID PRESSURE	2023/01/24
2023/01081	PHARMACEUTICAL COMPOSITION COMPRISING LONG-ACTING CONJUGATE OF TRIPLE GLUCAGON/GLP-1/GIP RECEPTOR AGONIST	2023/01/25
2023/01086	INJECTABLE FORMULATION	2023/01/25
2023/01107	BRANCHED AMINO ACID SURFACTANTS	2023/01/26
2023/01108	BRANCHED AMINO ACID SURFACTANTS	2023/01/26
2023/01109	BRANCHED AMINO ACID SURFACTANTS FOR USE IN HEALTHCARE PRODUCTS	2023/01/26
2023/01142	SUPERVISORY MACHINE INTELLIGENCE CONTROLS FOR PRODUCTION OF MEAT SUBSTITUTES	2023/01/27
2023/01410	VEHICLE EXIT CONTROL	2023/02/03
2023/01636	APPARATUS FOR USE IN A WIRELESS DETONATOR SYSTEM	2023/02/09
2023/02555	SEALING STRUCTURE OF HORIZONTAL ROTARY PYROLYSIS KILN	2023/02/24
2023/02901	FIBER CONNECTOR PLUG, FIBER ADAPTER, CONNECTOR ASSEMBLY, AND COMMUNICATIONS DEVICE	2023/02/27
2023/03172	FIBER CONNECTOR PLUG, FIBER ADAPTER, CONNECTOR ASSEMBLY, AND COMMUNICATIONS DEVICE	2023/02/28
2023/03317	WINE BOTTLE WITH CORK RETAINER AND RE-USE FEATURES	2023/03/03
2023/03445	ACID-BASE POLYMER BLEND MEMBRANES	2023/03/09
2023/03454	A PLATINUM ALLOY COMPOSITION	2023/03/09
2023/03461	WHEELED DETECTION ROBOT FOR UNDERGROUND PIPELINE	2023/03/10
2023/03474	METHOD FOR ESTIMATING THE TEMPERATURE AND THE OXIDE THICKNESS OF A STEEL STRIP	2023/03/09
2023/03490	METHOD FOR SEPARATING LUTETIUM AND YTTERBIUM USING CHROMATOGRAPHY	2023/03/10
2023/03527	DRILLING SYSTEM FOR RECOVERING VIRTUALLY INTACT DRILL CORES FROM LOOSE TO	2023/03/13

Application Number	Patent Title	Filing Date
	SOLID GROUND	
2023/03554	ELASTOGRAPHY DEVICE AND METHOD	2023/03/14
2023/03806	DC-DC CONVERTER CONTROL METHOD BASED ON TD3 REINFORCEMENT LEARNING ALGORITHM	2023/03/24
2023/03815	A METHOD FOR MANUFACTURING A STEEL SHEET WITH A ZNALMG COATING, CORRESPONDING COATED STEEL SHEET, PART AND VEHICLE	2023/03/24
2023/03818	SAFETY BUMPER ASSEMBLY AND ROBOTIC VEHICLE COMPRISING THE SAME	2023/03/24
2023/03860	ISOTHERMAL NUCLEIC ACID AMPLIFICATION METHODS FOR POINT-OF-NEED DIAGNOSIS	2023/03/27
2023/03869	HBI SLOW COOLING SYSTEM AND METHOD	2023/03/27
2023/03936	AN AIR VENT	2023/03/29
2023/04043	BIOFACTORS FOR THE TREATMENT AND PROPHYLAXIS OF DEMENTIA	2023/03/31
2023/05599	SYSTEM FOR ON-DEMAND PRODUCTION OF HYDROGEN FROM A CARRIER FLUID AND DISPOSAL OF SOLID BYPRODUCTS	2023/05/24
2023/06014	METHOD OF PROCESSING GREEN TOBACCO LEAVES INTO CUT TOBACCO	2023/06/06
2023/06216	VIDEO CODING METHOD AND SYSTEM, VIDEO ENCODER, AND VIDEO DECODER	2023/06/13
2023/06360	SUBSTITUTED PYRIDOTRIAZINE COMPOUNDS AND USES THEREOF	2023/06/19
2023/06521	JAK INHIBITOR WITH A VITAMIN D ANALOG FOR TREATMENT OF SKIN DISEASES	2023/06/23
2023/06523	METHOD AND APPARATUS FOR SEPARATING VALUABLE MINERALS FROM ORE	2023/06/23
2023/06611	METHOD FOR IDENTIFYING SPECIES OF EUKARYOTE ON BASIS OF WHOLE GENOME ANALYSIS, AND USE THEREOF	2023/06/27
2023/06749	SERVICE MANAGEMENT	2023/06/30
2023/06848	N-(IMIDAZO[1,2-B]PYRIDAZIN-3-YL)-1-CYCLOHEXYL-2H-INDAZOLE-5-CARBOXAMIDE AND N-(PYRAZOLO[1,5-A]PYRIMIDIN-3-YL)-1-CYCLOHEXYL-2H-INDAZOLE-5-	2023/07/05

Application Number	Patent Title	Filing Date
	CARBOXAMIDE DERIVATIVES AS IRAK4 INHIBITORS FOR THE TREATMENT OF ASTHMA	
2023/06869	PARASOL BANNER	2023/07/06
2023/06872	METHOD FOR IN-PHASE AND QUADRATURE IMBALANCE ESTIMATION AND COMMUNICATION APPARATUS	2023/07/06
2023/06916	ARTIFICIAL INTELLIGENCE BASED ANALYST AS AN EVALUATOR	2023/07/07
2023/06941	A NETWORK INTRUSION DETECTION CLASSIFICATION SYSTEM BASED ON AZURE MACHINE LEARNING	2023/07/10
2023/07016	A WATER HEATER PROTECTION SYSTEM	2023/07/12
2023/07029	COMMUNICATION APPARATUSES AND COMMUNICATION METHODS FOR OPERATING IN A POWER SAVING STATE	2023/07/12
2023/07066	TYROSINASE-INHIBITING MOLECULES AND DERMOPHARMACEUTICAL COMPOSITION THAT INCLUDES THEM	2023/07/13
2023/07112	AERODROME SIGNALLING SYSTEM WITH CELLULAR COMMUNICATION CAPABILITY	2023/07/14
2023/07118	HEAT TREATMENT OF BANKNOTES IN AN OXYGEN-FREE ENVIRONMENT	2023/07/14
2023/07233	ENHANCED LUBRICANT COMPOSITION	2023/07/19
2023/07323	A SYSTEM OF ELECTRONIC NOSE FOR ODOUR DETECTION	2023/07/24
2023/07391	CONVEYOR LINE FOR CLEANING SURFACE DIRT OF BATTERIES	2023/07/25
2023/07397	MULTILAYER INTEGRAL GEOGRIDS HAVING A CELLULAR LAYER STRUCTURE, AND METHODS OF MAKING AND USING SAME	2023/07/25
2023/07434	BUSHING PULLER ASSEMBLY	2023/07/26
2023/07446	ELECTRICITY GENERATING SYSTEM	2023/07/26
2023/07479	SEEDING TOOL	2023/07/27
2023/07493	DEVICE AND METHOD FOR REGULATING THE CONTENT OF MICROORGANISMS	2023/07/27
2023/07499	PHARMACEUTICAL COMPOSITION CONTAINING GHRP-6	2023/07/27
2023/07522	AI-IOT BASED CYLINDER TROLLEY SYSTEM AND THEREOF	2023/07/28



Application Number	Patent Title	Filing Date
2023/07528	ROTOR BLADE OF A WIND TURBINE AND CORRESPONDING WIND TURBINE	2023/07/28
2023/07539	MICRO-REACTOR CORE MECHANICAL SUPPORT	2023/07/28
2023/07563	SWIMMING POOL LIGHT	2023/07/31
2023/07564	A method of purchasing a product using a mobile device	2023/07/31
2023/07570	HIGH LOADING ORAL FILM FORMULATION	2023/07/31
2023/07583	EMBODIMENTS OF A MODULAR CONCENTRATING BOWL FOR A CENTRIFUGAL CONCENTRATOR	2023/07/31
2023/07584	DISCONNECTION ARC PREVENTION IN CABLE-SUPPLIED POWER CONNECTION	2023/07/31
2023/07586	CLOSURE DEVICES AND MOLD COMPONENTS FOR MOLDING CLOSURE DEVICES	2023/07/31
2023/07588	NUCLEAR MOVABLE ELEMENT POSITION INDICATION APPARATUS, SYSTEM, AND METHOD	2023/07/31
2023/07645	MIXING CHAMBER STRUCTURE FOR PRISMATIC HIGH-TEMPERATURE GAS-COOLED REACTOR, AND PRISMATIC HIGH-TEMPERATURE GAS-COOLED REACTOR STRUCTURE	2023/08/02
2023/07652	CATALYTIC SYNTHESIS REACTOR	2023/08/02
2023/07702	ELECTRONIC VEHICLE REGISTRATION SYSTEM	2023/08/04
2023/07714	REACTOR SYSTEM FOR MIXING OPERATION AT PARTIAL LOAD	2023/08/04
2023/07726	DURABLE BIOFOULING PROTECTION	2023/08/02
2023/07727	DURABLE BIOFOULING PROTECTION	2023/08/02
2023/07728	DURABLE BIOFOULING PROTECTION	2023/08/02
2023/07729	DURABLE BIOFOULING PROTECTION	2023/08/02
2023/07739	PIPE FITTING TOOL AND ASSOCIATE METHODS	2023/08/07
2023/07746	CEILING DIFFUSER	2023/08/07
2023/07777	TESTICULAR IMPLANT DEVICE AND METHOD	2023/08/08
2023/07790	CODING AND DECODING METHOD AND APPARATUS, AND DEVICES THEREFOR	2023/08/08
2023/07792	ENERGY EFFICIENT INDUCTION MOTOR	2023/08/08

Application Number	Patent Title	Filing Date
2023/07800	BIPOLAR INDUCTION ELECTRIC MACHINE	2023/08/08
2023/07816	A SYSTEM AND METHOD FOR MODIFYING AN EMULSION EXPLOSIVE	2023/08/10
2023/07828	COMPOSITE CATHODE MATERIAL FOR LITHIUM-ION BATTERIES	2023/08/10
2023/07847	A SYSTEM FOR, AND A METHOD OF, ACQUIRING MOTOR VEHICLE INSURANCE AND/OR REPORTING A MOTOR VEHICLE ACCIDENT	2023/08/11
2023/07864	A LAYERED DOUBLE HYDROXIDE, A PROCESS FOR THE SYNTHESIS AND USES THEREOF	2023/08/11
2023/07872	SYSTEM AND METHOD FOR PHYTOHORMONE EXTRACTION	2023/08/14
2023/07893	PREPARATION METHOD FOR IOVERSOL HYDROLYSATE	2023/08/14
2023/07894	COMPOUND FOR DEGRADING DEOXYRIBONUCLEIC ACID (DNA) POLYMERASE, AND USE THEREOF	2023/08/14
2023/07898	INSTALLATION OF REPEATERS FOR A MILLIMETER WAVE COMMUNICATIONS NETWORK	2023/08/14
2023/07911	CONFIGURATION SYSTEM FOR GREEN ENERGY AGRICULTURAL PARK	2023/08/15
2023/07921	COMBINATION OF RAF INHIBITOR AND MEK INHIBITOR	2023/08/15
2023/07922	METHOD OF GENERATING ELECTRICAL ENERGY BY IMPACTING PIEZOELECTRIC ELEMENT	2023/08/15
2023/07937	AN ANCHOR HOLE DRILLING DEVICE FOR IMPROVING DRILLING ACCURACY	2023/08/16
2023/07945	PYRIDOPYRIMIDINONE DERIVATIVE, PREPARATION METHOD THEREFOR, AND USE THEREOF	2023/08/16
2023/07963	EDTA AND EGTA FOR USE IN PRESERVING THE INTEGRITY OF THERAPEUTIC COMPOUNDS	2023/08/16
2023/07979	BIOMARKER AND APPLICATION THEREOF	2023/08/17
2023/08001	FERTILIZER PARTICLES COATED WITH A MICRONUTRIENT SOURCE	2023/08/17
2023/08006	NOVEL METHOD FOR PREPARING G-HEPTALACTONE	2023/08/17
2023/08033	METHOD AND PHARMACEUTICAL COMBINATION FOR PREVENTING CANCER RECURRENCE	2023/08/18

Application Number	Patent Title	Filing Date
2023/08034	INTERFERON-BASED CANCER TREATMENT METHOD, AND PHARMACEUTICAL COMBINATION	2023/08/18
2023/08035	APPLICATION OF RILUZOLE- AND BORNEOL-CONTAINING COMPOSITION IN PREPARATION OF MEDICATION FOR TREATING CEREBROVASCULAR DISEASES	2023/08/18
2023/08036	MULTIFUNCTIONAL TEST BENCH FOR IMPACT LOAD TESTING OF MINING SUPPORT MATERIAL AND TEST METHOD	2023/08/18
2023/08046	DEVICE FOR DETERMINING TONGUE POSITION BY MEASURING NEGATIVE PRESSURE IN THE ORAL CAVITY, FOR MEASURING INHALATION PRESSURE IN THE NASOPHARYNGEAL CAVITY, AND ASSOCIATED TERMINAL	2023/08/18
2023/08071	SECTION CONTROL SYSTEM	2023/08/21
2023/08090	METHOD FOR GENERATING A MODIFIED ENERGY-EFFICIENT DRIVING ROUTE FOR THE VEHICLE IN OPERATION	2023/08/21
2023/08091	METHOD FOR GENERATING AN ENERGY-EFFICIENT TRACK FOR A VEHICLE	2023/08/21
2023/08092	SYSTEM FOR GENERATING A RECUPERATION ENERGY-EFFICIENT TRACK FOR THE VEHICLE	2023/08/21
2023/08093	METHOD FOR GENERATING AN ENERGY-EFFICIENT TRACK FOR A VEHICLE	2023/08/21
2023/08109	METHOD FOR PREPARING NI-CO ALLOY MATERIAL	2023/08/22
2023/08110	A HANDLE CONNECTOR FOR A BARBECUE GRID	2023/08/22
2023/08118	CDK INHIBITOR	2023/08/22
2023/08124	METHOD FOR CHECKING INDIVIDUALS WITH SIMPLIFIED AUTHENTICATION	2023/08/22
2023/08151	APPARATUS AND METHOD FOR RENDERING AUDIO OBJECTS	2023/08/23
2023/08192	A METHOD OF PROVIDING A TIME-SYNCHRONIZED MULTI-STREAM DATA TRANSMISSION	2023/08/24
2023/08194	VEHICLE DOOR OPENING AND CLOSING APPARATUS AND VEHICLE	2023/08/24
2023/08222	IRON CONVERSION SYSTEM AND APPLICATIONS	2023/08/25

Application Number	Patent Title	Filing Date
2023/08225	ORE DISSOLUTION AND IRON CONVERSION SYSTEM	2023/08/25
2023/08237	IMPURITY REMOVAL IN AN IRON CONVERSION SYSTEM	2023/08/25
2023/08238	OVERALL DISINFECTION PROCEDURE WITH NATURAL REGULATION OF BATHING POOL WATER	2023/08/25
2023/08254	DOUBLE-ROLLER DUAL GEAR TRANSMISSION BOX AND DOUBLE-LONGITUDINAL AXIAL FLOW HARVESTER	2023/08/28
2023/08255	GRAIN COMBINE HARVESTER	2023/08/28
2023/08306	HIJACK PREVENTION MONITORING SYSTEM AND METHOD	2023/08/29
2023/08313	A BODY PIERCING GUN	2023/08/29
2023/08318	SYSTEM AND PROCESS TO HEAT PREFORMED PLASTIC PIPES	2023/08/29
2023/08383	CHARGING CONTROL PILOT CIRCUIT AND CHARGING SOCKET	2023/08/30
2023/08409	COMPOSITION FOR TREATING VITILIGO	2023/08/31
2023/08418	FOOTWEAR WITH ACTIVE TEMPERATURE AND HUMIDITY CONTROL	2023/08/31
2023/08419	RECHARGING ELECTRIC GENERATOR SYSTEM	2023/08/31
2023/08454	THE DEVICE AND THE METHOD FOR SPRAYING S-ENYL ESTER ON IN-PRODUCTION REBAKING TOBACCO LEAVES	2023/09/01
2023/08455	A NOVEL LED WIND-SOLAR COMPLEMENTARY STREET LAMP	2023/09/01
2023/08470	SYSTEMS AND METHODS TO ENHANCE AND DEVELOP NEW GAMES	2023/09/01
2023/08491	A METHOD FOR PREPARING BA(1-2X)MOO4:XPR3+ RED FLUORESCENT POWDER BY COMBUSTION METHOD	2023/09/04
2023/08515	METHOD FOR PREDICTING ADSORPTION QUANTITY OF VOLATILE ORGANIC COMPOUNDS BASED ON FILLING ADSORPTION	2023/09/05
2023/08517	MULTI-TYPE CONFLICT DETECTION METHOD	2023/09/05
2023/08521	REAL-TIME MONITORING METHOD FOR RAILWAY DANGEROUS GOODS TRANSPORTATION	2023/09/05
2023/08524	ENERGY-SAVING AND EFFICIENT TREATMENT METHOD FOR HIGH VANADIUM-TITANIUM LOW-GRADE	2023/09/05

Application Number	Patent Title	Filing Date
	MAGNETITE	
2023/08525	CALCINED CLAY GRINDING DEVICE	2023/09/05
2023/08527	INTEGRATED DEVICE FOR STERILIZING AND CUTTING STEM SEGMENTS IN TISSUE CULTURE	2023/09/05
2023/08529	AN IOT BASED SYSTEM AND METHOD FOR REAL-TIME AIR QUALITY MONITORING AND ANALYSIS	2023/09/05
2023/08530	SOURCE-GRID-LOAD-STORAGE COORDINATED CONTROL METHOD AND SYSTEM	2023/09/05
2023/08533	SURVEY TOOL SYSTEM FOR BLAST HOLE DRILLING RIGS	2023/09/05
2023/08536	RENEWABLE POWER AND/OR WATER GENERATOR	2023/09/05
2023/08551	CONTAINER SPREADER FOR RAILWAY FREIGHT TRANSPORTATION	2023/09/06
2023/08552	MACHINE LEARNING-BASED TOLL ROAD GREEN CHANNEL VEHICLE DETECTION METHOD	2023/09/06
2023/08573	CONTROL SYSTEM FOR AN ACTIVE SHIELDING SCREEN	2023/09/06
2023/08575	WASTE TIRE CRUSHING UNIT AND WASTE TIRE TREATMENT SYSTEM USING THE SAME	2023/09/06
2023/08586	A METHOD FOR REDUCING WARPAGE OF SILICON CARBIDE SUBSTRATE	2023/09/07
2023/08589	A SYSTEM BY USING AI TECHNOLOGY TO CREATE AN INTERACTIVE CLASSROOM FOR DIFFERENTLY ABLED PERSONS	2023/09/07
2023/08590	AN ARTIFICIALLY INTELLIGENT METHOD AND SYSTEM FOR PARKING AND SCHEDULING IN SMART CITIES	2023/09/07
2023/08609	PROCESS CARTRIDGE, PROCESS CARTRIDGE GROUP, AND IMAGE-FORMING APPARATUS	2023/09/08
2023/08611	METHOD FOR PROMOTING IN-BOTTLE FLOWERING OF TISSUE CULTURE SEEDLINGS OF CYMBIDIUM GOERINGII	2023/09/08
2023/08614	SYSTEM FOR DATA PERUSAL	2023/09/08
2023/08615	A STRANDED CABLE WITH FILLED BULBS	2023/09/08
2023/08622	A SYSTEM FOR REAL TIME FACE RECOGNITION	2023/09/08
2023/08623	AN AUTOMATED TOLL COLLECTION SYSTEM	2023/09/08



Application Number	Patent Title	Filing Date
2023/08624	A GEOLOGICAL CRACK HAMMER WITH PICK ACCESSORY	2023/09/08
2023/08625	A SYSTEM FOR PUBLIC HEALTH PROGNOSIS MEASURES BASED ON HUMAN INSPIRED ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING INTERPRETABILITY	2023/09/08
2023/08638	APPARATUS FOR LENGTHENING THE VIBRATING LENGTH OF STRINGS ON A HARP	2023/09/08
2023/08652	WALL CONNECTING MEMBER FOR EXTERNAL SCAFFOLD	2023/09/11
2023/08653	VIBRATION DAMPING AND ISOLATION DEVICE FOR PLANT AND APPLICATION METHOD THEREOF	2023/09/11
2023/08654	VIBRATION ISOLATION MECHANISM FOR VIBRATING APPARATUS IN PLANT	2023/09/11
2023/08655	METHOD FOR EVALUATING MATURITY DEGREE OF ORGANIC MATTER OF LOWER PALAEOZOIC MARINE SHALE	2023/09/11
2023/08657	AN OBSERVATION DEVICE FOR BRIDGE CONSTRUCTION MEASUREMENT	2023/09/11
2023/08658	HIGH-PRECISION IDENTIFICATION METHOD SUITABLE FOR VEHICLE ELECTRICAL ARCHITECTURES	2023/09/11
2023/08659	IMAGE RECOGNITION AND QUALITY INTELLIGENT EVALUATION SYSTEM BASED ON WELD SEAM CHARACTERISTICS OF ALUMINUM ALLOY PRODUCTS	2023/09/11
2023/08660	A TRADITIONAL CHINESE MEDICINE FORMULA FOR TREATING HYPERTENSION	2023/09/11
2023/08661	SOIL CONDITIONER AND PREPARATION METHOD THEREFOR	2023/09/11
2023/08662	IMAGE CAPTURING	2023/09/11
2023/08676	COMPOSITIONS AND METHODS FOR REMOVING BIO-SYNTHETIC NANO-PARTICLES FROM BODILY FLUIDS	2023/09/11
2023/08693	PRINCIPLE FOR IDENTIFYING AND DETERMINING CONTINUOUS BEAM DAMAGES BASED ON DIFFERENCE METHOD	2023/09/12
2023/08694	METHOD FOR REDUCING NEGATIVE IMPACT OF MICROPLASTICS ON BIOLOGICAL REGULATION TO FACILITATE	2023/09/12

Application Number	Patent Title	Filing Date
	EFFICIENT COMPOSTING OF SEWAGE SLUDGE	
2023/08695	IMPROVED TRACE METHOD FOR THREE-DIMENSIONAL MATERIAL STRUCTURE OF CRATON LITHOSPHERE	2023/09/12
2023/08697	TRANSLATIONAL STEERING APPARATUS FOR A STAIR CLIMBING MACHINE AND A WORKING METHOD THEREOF	2023/09/12
2023/08714	MODIFICATION ARRANGEMENT FOR HYGROSCOPIC MATERIA	2023/09/12
2023/08738	WINDOW BLIND SUPPORT ASSEMBLY	2023/09/13
2023/08753	MEDICINAL LIQUOR COMPOSITION AND PREPARATION METHOD THEREOF	2023/09/14
2023/08754	INTELLIGENT MONITORING METHOD AND SYSTEM FOR THE COMPUTER ROOM OPERATION AREA	2023/09/14
2023/08757	EXTERNAL DECORATIVE UPRIGHT COLUMN ASSEMBLING STRUCTURE	2023/09/14
2023/08761	DENTAL CROWN OF DENTAL IMPLANT AND DENTAL IMPLANT THEREOF	2023/09/14
2023/08781	GIS-BASED THREE-DIMENSIONAL MONITORING SYSTEM FOR PROJECT PROGRESS	2023/09/15
2023/08782	USING METHOD OF INTELLIGENT ANGIOGRAPHY MACHINE SYSTEM	2023/09/15
2023/08783	A SETTLEMENT MONITORING DEVICE AND MONITORING METHOD FOR TUNNEL UNDER-CROSSING EXISTING GROUND OBJECTS	2023/09/15
2023/08784	TREATMENT METHOD FOR SHORTENING THE SETTLEMENT PERIOD OF WET COLLAPSIBLE LOESS ROADBED	2023/09/15
2023/08786	METHOD FOR IDENTIFYING STOLEN VEHICLES	2023/09/15
2023/08787	PAYMENT CARD, AUTHENTICATION METHOD AND USE FOR A REMOTE PAYMENT	2023/09/15
2023/08788	AUTOMATIC DOUBLE-LINKAGE WELDING MACHINE	2023/09/15
2023/08808	RAPID REPAIR AND REINFORCEMENT TREATMENT PROCESS OF HIGHWAY STRUCTURE LAYER BY GROUTING	2023/09/18

Application Number	Patent Title	Filing Date
2023/08809	METHOD FOR REDESIGNING HIGH-ORDER TRANSMISSION ERROR TOOTH SURFACE OF SPIRAL BEVEL GEARS	2023/09/18
2023/08810	A FIBER OPTIC CONNECTION BOX	2023/09/18
2023/08813	ELECTRONIC LIQUID LEVEL SENSING UNIT	2023/09/18
2023/08820	WIRELESS DETONATOR ARRANGEMENT	2023/09/18
2023/08848	AIRBAG STRUCTURE FOR PREVENTING TUNNEL IRRIGATION AND COLLAPSE AND USE METHOD THEREOF	2023/09/19
2023/08850	DISPLAY DEVICE FOR PUBLICIZING EDUCATIONAL KNOWLEDGE	2023/09/19
2023/08853	ELECTRIC APPLIANCE SAFETY SWITCH	2023/09/19
2023/08854	A PAN-KRAS INHIBITOR COMPOUND	2023/09/19
2023/08855	SPRAY-COOLING THERMAL MANAGEMENT SYSTEM FOR BATTERY WRAPPED IN V-SHAPED FIN	2023/09/19
2023/08886	SOILLESS SPRAY-SEEDING SUBSTRATE AND PREPARATION METHOD AND APPLICATION THEREOF	2023/09/20
2023/08887	ECOLOGICAL RESTORATION METHOD FOR HIGH AND STEEP SLOPE OF ABANDONED SAND QUARRY WITH AEOLIAN SAND LANDFORM	2023/09/20
2023/08896	ANTIBODIES BINDING TROP2 AND USES THEREOF	2023/09/20
2023/08927	USING METHOD OF TRAINING SYSTEM FOR VASCULAR INTERVENTIONAL SURGERY	2023/09/21
2023/08929	GENERAL SURGICAL PRECISE POSITIONING DEVICE	2023/09/21
2023/08931	A DISINFECTION DEVICE FOR EMERGENCY INSTRUMENTS USED IN THE INTENSIVE CARE UNIT	2023/09/21
2023/08932	CONVENIENT HEIGHT-ADJUSTABLE COMPUTER MONITOR BRACKET LOCKING DEVICE	2023/09/21
2023/08933	METHOD FOR PREPARING NEAR-INFRARED SILVER SULFIDE QUANTUM DOT PROTEIN NANOCOMPOSITE AND USE THEREOF	2023/09/21
2023/08939	A DIGITAL SHOPPING CART WITH	2023/09/21

Application Number	Patent Title	Filing Date
	AN AUTOMATIC BILLING SYSTEM	
2023/08940	AN AUTOMATED GREENHOUSE SYSTEM BASED ON ARDUINO UNO	2023/09/21
2023/08941	A SYSTEM AND METHOD FOR AUTOMATED FRUIT RIPENESS DETECTION USING IMAGE PROCESSING	2023/09/21
2023/08942	A SYSTEM AND METHOD FOR DISEASE DETECTION ON PLANT LEAVES USING A CONVOLUTIONAL NEURAL NETWORK	2023/09/21
2023/08943	AN AUTOMATED PLANT WATERING SYSTEM	2023/09/21
2023/08944	AN AUTOMATED TRAFFIC MANAGEMENT SYSTEM	2023/09/21
2023/08945	A MULTI SENSORY HIGH SPEED PHOTOGRAPHY TRIGGER SYSTEM	2023/09/21
2023/08946	AN ONLINE CENSUS SURVEY SYSTEM FOR EFFICIENT POPULATION COUNTING AND DATA COLLECTION	2023/09/21
2023/08947	A MACHINE LEARNING BASED SYSTEM FOR CYBER BULLYING DETECTION AND PREVENTION ON SOCIAL PLATFORMS	2023/09/21
2023/08948	AN IOT BASED NUTRIENT FILM TECHNIQUE HYDROPONICS SYSTEM FOR MICRO FARMING ROBOT	2023/09/21
2023/08949	USE OF LACTIPLANTIBACILLUS PLANTARUM IN INCREASING ALKALOID AND/OR POLYSACCHARIDE IN LEONURUS JAPONICUS HOUTT	2023/09/21
2023/08950	A LIQUID FAR-INFRARED ANION NUTRIENT COMPOSITION AND PREPARATION METHOD THEREOF	2023/09/21
2023/08951	A METHOD FOR PREPARING SHEEP SKIN FIBROBLAST CELLS	2023/09/21
2023/08959	DEPLOYABLE MARINE SENSOR SYSTEM	2023/09/21
2023/08973	ROOT GRAFTING PROPAGATION METHOD FOR JUGLANS MANDSHURICA	2023/09/22
2023/08976	METHOD FOR GRAFTING BIG TREES FOR RAPID CROWN FORMATION	2023/09/22
2023/08979	A ROAD CUTTING MECHANISM	2023/09/22
2023/09023	DISTILLATION DEVICE AND METHOD FOR COAL TAR HYDROGENATION PROCESS	2023/09/26
2023/09024	AN ADAPTIVE ADJUSTMENT	2023/09/26

Application Number	Patent Title	Filing Date
	DEVICE FOR PHOTOVOLTAIC SOLAR PANELS AND ITS REALIZATION METHOD	
2023/09025	NEW GRAFTING METHOD OF CITRUS SEEDLING FOR BREEDING	2023/09/26
2023/09027	NOVEL PHOTOVOLTAIC AND TROUGH-TYPE SOLAR ENERGY COMPLEMENTARY ASPHALT HEATING SYSTEM	2023/09/26
2023/09029	PLANTING METHOD FOR IMPROVING FRUIT QUALITY OF COCK-TAIL GRAPEFRUIT	2023/09/26
2023/09031	CONCRETE TEMPERATURE-STRAIN INTELLIGENT MONITORING SYSTEM AND MONITORING METHOD BASED ON OFDR OPTICAL FIBER SENSING	2023/09/26
2023/09032	WIRE COATING DEVICE, METHOD, AND SYSTEM	2023/09/26
2023/09033	STRETCHABLE RUBBER SLEEVE FOR TOY VEHICLES	2023/09/26
2023/09038	COMPOSITE STRUCTURAL BOARD	2023/09/26
2023/09038	COMPOSITE STRUCTURAL BOARD	2023/09/26
2023/09043	IN-SITU SAMPLING DEVICE FOR BACKFILL SLURRY	2023/09/26
2023/09051	METHOD FOR MAINTAINING A NUCLEAR REACTOR	2023/09/26
2023/09073	NETWORK DYNAMIC EVOLUTION SYSTEM OF SOCIAL NETWORK ANALYSIS AND RANDOM ACTOR MODEL	2023/09/27
2023/09074	A DUAL-BAND COMBUSTIBLE GAS CONCENTRATION DETECTION SYSTEM	2023/09/27
2023/09075	METHOD FOR UTILIZING GRAPHITE ORE RESOURCES	2023/09/27
2023/09076	A LIFE CYCLE DETECTION DEVICE FOR FIXED WING LIGHT SPORT AIRCRAFT	2023/09/27
2023/09078	CORE-MAKING METHOD FOR ENHANCED COOLING OF 100-TON DUCTILE IRON CONTAINER CASTING	2023/09/27
2023/09079	A SOIL SAMPLING DEVICE FOR TESTING SOLIDIFICATION CONSTRUCTION	2023/09/27
2023/09080	A PROTECTION DEVICE FOR CRUSHING A LARGE SINGLE STONE IN A PIPE JACKING	2023/09/27
2023/09081	A COMPREHENSIVE EVALUATION METHOD FOR WATER INRUSH RISK OF BED-SEPARATION WATER	2023/09/27



Application Number	Patent Title	Filing Date
	DISASTER BASED ON CLOUD MODEL	
2023/09082	METHOD FOR GENETIC IMPROVEMENT ON RICE BLAST RESISTANCE OF RICE THERMOSENSITIVE GENIC MALE STERILE LINE	2023/09/27
2023/09084	METHOD FOR RAPID SEEDLING FORMATION AND PROPAGATION OF PRUNUS AVIUM L. ROOTSTOCK TISSUE CULTURE SEEDLINGS	2023/09/27
2023/09085	A PROCESS FOR REMOVAL OF CR (VI) FROM WATER USING LIMA BEAN HUSK DERIVED ADSORBENT	2023/09/27
2023/09086	A PRECAST SINGLE TEE GIRDER WITH GLASS FIBER REINFORCED POLYMER IN BRIDGE CONSTRUCTION	2023/09/27
2023/09087	A SOLAR POWERED ELECTRIC VEHICLE ENHANCEMENT SYSTEM	2023/09/27
2023/09088	A MODULAR UNMANNED GROUND VEHICLE WITH MULTI-MODAL SENSING AND CONTROL CAPABILITIES	2023/09/27
2023/09089	A COMPOSITE OLIGOMERIC POLYSACCHARIDE AND AN APPLICATION THEREOF	2023/09/27
2023/09130	HIGH-EFFICIENCY CATALYST FOR RESIDUAL OIL HYDROGENATION AND PREPARATION METHOD THEREFOR	2023/09/28
2023/09132	AN ULTRA-HIGH-PERFORMANCE FIBER-REINFORCED CONCRETE (UHPFRC) FOR ENERGY-EFFICIENT AND ECO-FRIENDLY STRUCTURAL APPLICATIONS	2023/09/28
2023/09133	A STRENGTHENING STRUCTURE AND A CONSTRUCTION METHOD UTILIZING ULTRA-HIGH-PERFORMANCE CONCRETE FOR REPAIRING CORRODED MAIN BEAM ENDS OF STEEL BRIDGE	2023/09/28
2023/09137	A MACHINE LEARNING MODEL FOR LITHOLOGY PREDICTION USING WELL LOGS AND DRILLING DATA	2023/09/28
2023/09138	A METAL ION ADSORBENT FOR COPPER (II) REMOVAL FROM RED GRAM HUSK	2023/09/28
2023/09139	A SUSTAINED RELEASE GREEN SMART BIO FERTILIZER PELLET	2023/09/28
2023/09146	ESTIMATION OF A CROP COEFFICIENT VECTOR BASED ON MULTISPECTRAL REMOTE	2023/09/28

Application Number	Patent Title	Filing Date
	SENSING	
2023/09163	A METHOD FOR IMPROVING THE SEEDLING RATE OF RHODODENDRON BY USING RHODODENDRON SPERMOSPHERE MICROORGANISMS	2023/09/29
2023/09205	METHOD FOR TREATING HUMAN OR ANIMAL URINE BY BASIFICATION AND USES OF THE URINE OBTAINED IN PARTICULAR AS FERTILISING SUBSTANCE	2023/09/29
2023/09213	ADIABATIC PRE-COOLING REDISTRIBUTION SYSTEM	2023/10/02
2023/09235	A SYSTEM FOR EVALUATING AND RANKING CANDIDATE RESUMES	2023/10/03
2023/09236	A SOFT UNDERWATER MULTIARMED ROBOTIC GRIPPER	2023/10/03
2023/09237	A WATER CLEANING BOAT	2023/10/03
2023/09238	A DEVICE FOR PRODUCING YTTRIUM ZIRCONATE (Y <sub>2</sub> ZR <sub>2</sub> O <sub>7</sub> :GD <sub>3</sub> +) DOPED PHOSPHOR	2023/10/03
2023/09240	DIVIDING HOPPER AND TRANSPORTABLE SCREENING APPARATUS	2023/10/03
2023/09245	IN-SITU GENERATION OF THIOSULPHATE LIXIVANT SYSTEMS AND METHODS FOR PRECIOUS METAL LEACHING AND RECOVERY	2023/10/03
2023/09300	PHOSPHATE-FREE BAKING POWDER	2023/10/04
2023/09302	METHOD FOR TREATING HUMAN OR ANIMAL URINE BY DILUTION AND FERMENTATION AND USES OF THE URINE OBTAINED IN PARTICULAR AS FERTILIZING SUBSTANCE	2023/10/04
2023/09353	PARTIAL-RESONANT CONVERTERS FOR PV APPLICATIONS	2023/10/06
2023/09379	METHOD FOR CULTURING ZONA-FREE CLONED EMBRYOS	2023/10/09
2023/09380	PLASTIC FILM RESIDUE-FREE RECYCLING DEVICE	2023/10/09
2023/09381	INTELLIGENT ASSEMBLY METHOD OF ELECTRONIC PARTS PRODUCTS BASED ON MACHINE VISION RECOGNITION	2023/10/09
2023/09382	ADAPTIVE THRESHOLD NEUTROSOPHIC SET ALGORITHM SUITABLE FOR THE VEHICLE BODY	2023/10/09

Application Number	Patent Title	Filing Date
	AND ITS ELECTRICAL FRAME	
2023/09383	METHOD FOR SIMULTANEOUSLY EXTRACTING ACTIVE MULTI-ENZYMES AND ORGANIC SELENIUM FROM ALOE	2023/10/09
2023/09384	ROBOT SYSTEM ASSISTING IN LOWER LIMB REHABILITATION	2023/10/09
2023/09385	FIBERGLASS BULKED FILTER CLOTH AND MANUFACTURING METHOD THEREOF	2023/10/09
2023/09386	HIGH-STRENGTH FIBERGLASS WOVEN CLOTH AND PREPARATION METHOD THEREOF	2023/10/09
2023/09387	METHOD FOR ANALYZING TREE TAPER BASED ON CONSTRUCTION OF TREE GRADING STEM CURVE	2023/10/09
2023/09388	HIGH MOISTURE ENSILAGING METHOD FOR PENNISETUM ALOPECUROIDES	2023/10/09
2023/09389	SMART GRID ENERGY STORAGE SYSTEM	2023/10/09
2023/09402	ELECTRICAL LOAD SHEDDING PROTECTION SYSTEM	2023/10/09
2023/09404	GRIP STRENGTH DETECTION GRASPING DEVICE AND A CONTROL METHOD THEREOF	2023/10/09
2023/09405	METHOD FOR IN-SITU REMEDIATION OF HEAVY METAL-CONTAMINATED SOIL BY CROP INTERPLANTING	2023/10/09
2023/09406	AUTOMATIC CONTROL DEVICE FOR CAR LAMPS	2023/10/09
2023/09407	ELECTRICAL MACHINE CONTROL SYSTEM BASED ON WIRELESS REMOTE CONTROL	2023/10/09
2023/09444	METHOD FOR IMPROVING THE STABILITY OF COTTON CARBON FIBER CATALYSTS	2023/10/10
2023/09445	A MOLYBDENUM DIPHOSPHIDE-CARBON NANOTUBE COMPOSITE MATERIAL AND ITS PREPARATION METHOD	2023/10/10
2023/09449	MICRO BUBBLE GENERATION METHOD AND GENERATION DEVICE	2023/10/10
2023/09454	VISHING DEFENCE METHOD AND SYSTEM	2023/10/10
2023/09457	WASTE DRYING	2023/10/10
2023/09466	PREPARATION METHOD OF IONIC RARE EARTH LEACHING AGENT	2023/10/10
2023/09467	METHOD FOR PREPARING THE IN <sub>2</sub> SE <sub>3</sub> NANOMATERIALS FOR	2023/10/10

Application Number	Patent Title	Filing Date
	PHOTOCATALYTIC DEGRADATION OF TETRACYCLINE	
2023/09468	METHOD FOR PREPARING SHEET TIN DISULFIDE NANOMATERIAL FOR EFFICIENT ADSORPTION OF ORGANIC DYES	2023/10/10
2023/09484	NEW MEDIA PUBLICITY DEVICE FOR INNOVATION AND ENTREPRENEURSHIP BY COLLEGE STUDENTS	2023/10/11
2023/09534	PHARMACEUTICAL COMPOSITION FOR TREATING CHILDREN'S CHRONIC ALLERGIC RHINITIS AND PREPARATION METHOD THEREOF	2023/10/12
2023/09535	MEDICINE FOR RELIEVING POSTOPERATIVE SYNDROME OF RENAL ARTERY EMBOLIZATION	2023/10/12
2023/09536	TRADITIONAL CHINESE MEDICINE COMPOSITION FOR TREATING POSTOPERATIVE HILAR CHOLANGIOCARCINOMA AND CANCER METASTASIS	2023/10/12
2023/09537	ACUPOINT PATCH FOR TREATING LIVER CIRRHOSIS AND CIRRHOTIC ASCITES AND PREPARATION METHOD THEREOF	2023/10/12
2023/09538	MASK WITH SPUTUM DISCHARGE FUNCTION AND SPUTUM DISCHARGE METHOD THEREOF	2023/10/12
2023/09539	MULTI-FIELD TEMPERATURE TRIAXIAL TEST DEVICE FOR COARSE-GRAINED SOIL	2023/10/12
2023/09541	LASER 3D PRINTING NOZZLE FOR METAL POWDER	2023/10/12
2023/09542	AUTOMATIC TESTING DEVICE FOR BOTTOM PLATES OF OIL STORAGE TANK	2023/10/12
2023/09545	RAIL JOINT	2023/10/12
2023/09585	COMPOSITION AND METHOD FOR SYNTHESIZING ISONIAZID-PYRIDAZINONE BASED DPPE1 INHIBITORS AS ANTI-TUBERCULAR AGENTS	2023/10/13
2023/09586	A SYSTEM FOR HIDING DATA IN BINARY IMAGES TO PROVIDE SECRET AND SECURE COMMUNICATION	2023/10/13
2023/09601	A COMPOSITION FOR USE IN THE TREATMENT OF URINARY OR FAECAL INCONTINENCE	2023/10/13
2023/09628	A GAMING SYSTEM	2023/10/16
2023/09631	COUPLING DEVICE BETWEEN A	2023/10/16

Application Number	Patent Title	Filing Date
	TEST BOX AND A COMPANION TEST BOX FOR BACK-TO-BACK PLANETARY TESTING	
2023/09678	ASH ACOUSTIC CLEANING DEVICE FOR SCR DENITRATION CATALYST IN COAL-FIRED POWER PLANT	2023/10/17
2023/10308	ENERGY STORAGE CASE	2023/11/06
2023/10318	HYPERSPECTRAL IMAGE BAND SELECTION METHOD AND SYSTEM BASED ON LATENT FEATURE FUSION	2023/11/06
2023/10319	HIGH-ORDER CORRELATION PRESERVED INCOMPLETE MULTI-VIEW SUBSPACE CLUSTERING METHOD AND SYSTEM	2023/11/06
2023/10324	INDUCER FOR INDUCING DIFFERENTIATION OF MESENCHYMAL STEM CELLS INTO ESTRADIOL-SECRETING CELLS	2023/11/06
2023/10602	ETHYLENE OLIGOMERIZATION PROCESSES	2023/11/15
2023/10608	TIRE REPAIR APPARATUS FOR ATTACHMENT TO A VEHICLE WHEEL	2023/11/15
2023/10619	METHOD AND SYSTEM FOR DISCRIMINATING DIGITAL PATHOLOGICAL IMAGES OF COLORECTAL CANCER BASED ON WEAKLY SUPERVISED LEARNING	2023/11/15
2023/11601	ELECTRONIC CIGARETTE USED IN CONJUNCTION WITH MOUTH AND NOSE	2023/12/18
2023/11603	ELECTRONIC ATOMIZATION LIQUID COMPOSITION AND PACKAGING CONTAINER THEREOF	2023/12/18
2023/11802	LADLE WITH A DUAL-PATH LIFTING ARM TYPE AUTOMATIC ARGON GAS JOINT	2023/12/21
2023/11803	BASKET LOCKING MECHANISM	2023/12/21
2023/11804	SELF-REGULATING ARGON BLOWING JOINT	2023/12/21
2023/11805	MOUNTING CONNECTING FRAME FOR GRAPHIC IMAGE PROCESSING DEVICE	2023/12/21
2023/11806	ANTIBACTERIAL COLORED SPUN YARN AND COLOR SPINNING PROCESS THEREOF	2023/12/21
2024/00110	ANTI-BLOCKING SYSTEM AND ANTI-BLOCKING METHOD BASED ON SPLIT RING ROUND-ROBIN HEATING FOR ROTARY HEAT EXCHANGER	2024/01/02



Application Number	Patent Title	Filing Date
2024/00209	A POSITIVELY CHARGED NANOFILTRATION MEMBRANE FOR REMOVING URANIUM AND CESIUM FROM NUCLEAR RADIOACTIVE WASTEWATER AND ITS PREPARATION METHOD	2024/01/05
2024/00277	PREPARATION METHOD OF IONIC RARE EARTH LEACHING AGENT	2024/01/08
2024/00278	METHOD FOR PREPARING THE IN <sub>2</sub> SE <sub>3</sub> NANOMATERIALS FOR PHOTOCATALYTIC DEGRADATION OF TETRACYCLINE	2024/01/08
2024/00279	METHOD FOR PREPARING SHEET TIN DISULFIDE NANOMATERIAL FOR EFFICIENT ADSORPTION OF ORGANIC DYES	2024/01/08
2024/00660	AN APPARATUS AND PROCESS FOR COMPLETE TREATMENT OF SLURRY AND POWDER	2024/01/18
2024/01864	CONTACTLESS RING-SHAPED SMART CARD	2024/03/05
2024/01865	AUTOMATIC MATERIAL PREPARATION SYSTEM	2024/03/05
2024/01917	APPARATUS AND METHOD FOR PREPARING FLEXIBLE INSERT SAMPLE THAT ACCURATELY CONTROL RANDOM CRACK OPENING	2024/03/07
2024/02002	DRAINAGE DEVICE	2024/03/11
2024/02155	CERAMIC COMPOSITE FIBER CATALYTIC FILTER PIPE FOR DESULFURIZATION, DENITRATION, AND DIOXIN REMOVAL AND PREPARATION METHOD THEREOF	2024/03/18
2024/02367	METHOD, DEVICE, EQUIPMENT AND STORAGE MEDIUM FOR DETERMINING THRESHOLD VALUE OF GEOLOGICAL	2024/03/20
2024/02551	METHOD, APPARATUS, DEVICE, SYSTEM AND STORAGE MEDIUM FOR COLLECTING SPATIOTEMPORAL BEHAVIORS AND GENERATING A SPATIOTEMPORAL BEHAVIOR TRACK	2024/04/02

## DESIGNS

## Advertisement List for April 2024

Number of Advertised Designs: 114

Application Number	Design Articles	Filing Date
A2022/00059	SPRAY SENSOR	2022/01/21
A2022/00060	SET OF DISPLAY SCREENS OR PORTION THEREOF WITH A GRAPHICAL USER INTERFACE	2022/01/21
A2022/00061	SET OF DISPLAY SCREENS OR PORTION THEREOF WITH A GRAPHICAL USER INTERFACE	2022/01/21
A2022/00062	SET OF DISPLAY SCREENS OR PORTION THEREOF WITH A GRAPHICAL USER INTERFACE	2022/01/21
A2022/00063	SET OF DISPLAY SCREENS OR PORTION THEREOF WITH A GRAPHICAL USER INTERFACE	2022/01/21
A2022/00245	TYRE	2022/03/11
A2023/00163	CRATES	2023/02/06
A2023/00249	SURFACE PATTERNS	2023/02/22
A2023/00250	SURFACE PATTERNS	2023/02/22
A2023/00251	SURFACE PATTERNS	2023/02/22
A2023/00391	A SHOE	2023/03/23
A2023/00497	FRONT GLASS	2023/04/19
A2023/00506	BOTTLE	2023/04/21
A2023/00710	Vehicle Wheel	2023/06/22
A2023/00711	Vehicle Wheel	2023/06/22
A2023/00712	Vehicle Wheel	2023/06/22
A2023/00714	FOOTWEAR AND SOLES FOR FOOTWEAR	2023/06/26
A2023/00719	AC/DC Power Station	2023/06/27
A2023/00720	Extrusion System	2023/06/27
A2023/00722	Access Control Unit	2023/06/27
A2023/00724	MANDIBULAR ADVANCEMENT DEVICE	2023/06/28
A2023/00725	Cup	2023/06/28
A2023/00728	TROLLEY	2023/07/03
A2023/00729	SHOPPING BASKET BODY WALL	2023/07/03
A2023/00730	BASKET FOR A TROLLEY	2023/07/03
A2023/00737	FOOTWEAR	2023/07/05
A2023/00742	Stacked Tray Arrangement	2023/07/06
A2023/00745	Stackable Tray	2023/07/06
A2023/00748	COVER PLATE FOR SWITCHES	2023/07/07
A2023/00749	COVER PLATE FOR SWITCHES	2023/07/07
A2023/00750	SOCKET BOX	2023/07/07
A2023/00751	FRAMES FOR SWITCHES	2023/07/07
A2023/00752	HEAT AND CO DETECTOR	2023/07/07
A2023/00754	Stackable Box	2023/07/07

Application Number	Design Articles	Filing Date
A2023/00767	Portable Power Supply	2023/07/10
A2023/00768	Portable Power Supply	2023/07/10
A2023/00769	Portable Power Supply	2023/07/10
A2023/00770	Portable Power Supply	2023/07/10
A2023/00771	Portable Power Supply	2023/07/10
A2023/00772	Portable Power Supply	2023/07/10
A2023/00773	Portable Power Supply	2023/07/10
A2023/00774	Portable Power Supply	2023/07/10
A2023/00775	Portable Power Supply	2023/07/10
A2023/00776	Portable Power Supply	2023/07/10
A2023/00777	Portable Power Supply	2023/07/10
A2023/00784	Collapsible Enclosures	2023/07/12
A2023/00792	Flexible Storage Bag	2023/07/14
A2023/00793	Flexible Storage Bag	2023/07/14
A2023/00797	SCOPES	2023/07/14
A2023/00826	LENS	2023/07/21
A2023/00827	LENS	2023/07/21
A2023/00828	ADJUSTABLE LIGHTING FIXTURE	2023/07/21
A2023/00829	ADJUSTABLE LIGHTING FIXTURE	2023/07/21
A2023/00830	ADJUSTABLE LIGHTING FIXTURE	2023/07/21
A2023/00831	LENS	2023/07/21
A2023/00832	LENS	2023/07/21
A2023/00833	LIGHTING FIXTURE	2023/07/21
A2023/00834	ADJUSTABLE LIGHTING FIXTURE	2023/07/21
A2023/00835	ADJUSTABLE LIGHTING FIXTURE	2023/07/21
A2023/00837	ADJUSTABLE LIGHTING FIXTURE	2023/07/21
A2023/00838	ADJUSTABLE LIGHTING FIXTURE	2023/07/21
A2023/00841	ELECTRIC MIXERS	2023/07/21
A2023/00844	AUTOMOBILES	2023/07/24
A2023/00845	AUTOMOBILES	2023/07/24
A2023/00848	MOTOR VEHICLES	2023/07/25
A2023/00849	MOTOR VEHICLES	2023/07/25
A2023/00850	MOTOR VEHICLES	2023/07/25
A2023/00851	Pair of Earphones	2023/07/25
A2023/00859	WATCHES	2023/07/26
A2023/00860	MOBILE PHONES	2023/07/26
A2023/00861	MOBILE PHONES	2023/07/26
A2023/00862	MOBILE PHONES	2023/07/26
A2023/00863	MOBILE PHONES	2023/07/26
A2023/00866	Battery Chamber	2023/07/27
A2023/00867	Battery Chamber	2023/07/27
A2023/00870	CONTAINERS	2023/07/28
A2023/00871	CONTAINERS	2023/07/28
A2023/00873	AUTOMOBILES	2023/07/28
A2023/00876	LIDS FOR COOKING POTS	2023/07/31
A2023/00877	COOKING POTS	2023/07/31
A2023/00878	COOKING POTS	2023/07/31
A2023/00879	SETS OF COOKING POTS AND LIDS THEREFOR	2023/07/31
A2023/00880	SETS OF COOKING POTS AND LIDS	2023/07/31

Application Number	Design Articles	Filing Date
	THEREFOR	
A2023/00888	EZ KART	2023/08/07
A2023/00900	VEHICLE	2023/08/14
A2023/00901	VEHICLE	2023/08/14
A2023/00945	PACKAGING FOR FOODSTUFFS	2023/08/25
A2023/00946	PACKAGING FOR FOODSTUFFS	2023/08/25
A2024/00020	BATTERY RECHARGERS	2024/01/09
F2021/00773	CONTOUR MAKER	2021/07/01
F2022/00246	TYRE THREAD	2022/03/11
F2022/00686	SEAL ARRANGEMENT FOR A CABLE GLAND	2022/06/20
F2022/00688	CABLE GRIPPING ARRANGEMENT FOR A CABLE GLAND	2022/06/20
F2022/01514	A SUPPORT FOR A ROCK BOLT	2022/11/23
F2023/00071	Leg Brackets	2023/01/16
F2023/00164	Crates	2023/02/06
F2023/00279	PAINT REMOVING SCRAPER	2023/02/27
F2023/00414	A CHEEK REST FOR A FIREARM	2023/04/04
F2023/00559	BRACKET (3) FOR MOUNTING SOLAR PANELS	2023/05/10
F2023/00715	LID FOR A CONTAINER	2023/06/26
F2023/00716	CONTAINER	2023/06/26
F2023/00723	MANDIBULAR ADVANCEMENT DEVICE	2023/06/28
F2023/00726	Blank for a Cup	2023/06/28
F2023/00741	Blank for a Box	2023/07/06
F2023/00743	Blank for a Stackable Tray	2023/07/06
F2023/00744	Blank for a Sleeve for Stackable Trays	2023/07/06
F2023/00780	ANTENNA ASSEMBLY	2023/07/11
F2023/00846	FASCIA BOARD	2023/07/24
F2023/00847	HOLLOW BARGE	2023/07/24
F2023/00869	Mounting Brackets	2023/07/28
F2023/00881	LIDS FOR COOKING POTS	2023/07/31
F2023/00885	TOW BAR ASSEMBLIES	2023/07/31
F2023/00919	CONTAINER	2023/08/21
F2023/00925	CAMERA HOUSING	2023/08/23