PATENT JOURNAL

INCLUDING TRADE MARKS, DESIGNS AND COPYRIGHT IN CINEMATOGRAPH FILMS

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PATENTS, TRADE MARKS, DESIGNS AND COPYRIGHT OFFICE

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2. PATENTS

PATENTS

APPLICATIONS FOR PATENTS

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

THE PARTICULARS APPEAR IN THE FOLLOWING SEQUENCE:

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

. - APPLIED ON 2023/05/29 -

2023/05710 ~ Provisional ~54:METHOD AND SYSTEM FOR SONIC PAYMENTS ~71:ANGUS POHL, 334 Mint Avenue, Belvedere 7, South Africa ~72: ANGUS POHL~

2023/05744 ~ Complete ~54:TREATMENT OF KRAS MUTANT CANCERS ~71:MEI PHARMA, INC., 3611 Valley Centre Drive Suite 500 , San Diego, California, 92130, United States of America ~72: DANIEL P GOLD;SANDRA E WILEY~ 33:US ~31:63/115,969 ~32:19/11/2020;33:US ~31:63/154,652 ~32:26/02/2021;33:US ~31:63/158,849 ~32:09/03/2021;33:US ~31:63/173,361 ~32:10/04/2021

2023/05754 ~ Complete ~54:A METHOD FOR TREATING A FILTER FOR FILTERING PARTICULATE MATTER AND A A FILTER OBTAINED BY SAID THE METHOD ~71:Johnson Matthey Public Limited Company, 5th Floor, 25 Farringdon Street, LONDON EC4A 4AB, UNITED KINGDOM, United Kingdom ~72: BURMESTER, Sabina;HOTCHKISS, Thomas;MARVELL, David;SAPSFORD, Jonathon Paul~ 33:US ~31:63/200,075 ~32:12/02/2021

2023/05725 ~ Complete ~54:FEED ADDITIVE FOR PREVENTING SPINAL DEFORMITY OF CHANNA STRIATA AND APPLICATION THEREOF ~71:GUANGDONG HINTER BIOTECHNOLOGY GROUP CO., LTD., No. 56, Xingui Second Road, Guangzhou High-tech Industrial Development Zone, Guangdong Province, 510530, People's Republic of China ~72: HU, Haibin;LI, Yanxian;PAN, Leilei;ZHANG, Jian;ZHEN, Shuqi~

2023/05726 ~ Complete ~54:NORMAL TEMPERATURE DEGERMING DEVICE AND METHOD FOR FERMENTED MEAD ~71:INSTITUTE OF APPLIED CHEMISTRY, JIANGXI ACADEMY OF SCIENCES, No. 7777, Changdong Avenue, High-tech Development Zone, Nanchang City, Jiangxi Province, 330096, People's Republic of China;Jiangxi Mead Bee Products Co., Ltd., No. 310, Fengxin Avenue North Road, Fengchuan Town, Fengxin County, Yichun City, Jiangxi Province, 336000, People's Republic of China ~72: SHU, Hongfeng;XU, Gang;XU, Jianguo;ZENG, Guoping~ 33:CN ~31:2022111134790 ~32:14/09/2022

2023/05728 ~ Complete ~54:FABRIC-BASED PRESSURE AND HUMIDITY SENSOR SYNCHRONOUS MEASUREMENT AND PREPARATION METHOD THEREOF ~71:Anhui Polytechnic University, Beijing Middle Road, Wuhu City, Anhui Province, People's Republic of China ~72: DING Binbin;HE You;HU Qiaole;LI Changlong;LI Zhiying;LIU Tongshuang;NIE Wenqi;TANG Jinhao;WANG Peng;ZHENG Xianhong~

2023/05729 ~ Complete ~54:A SYSTEM AND METHOD FOR ANALYZING DACLATASVIR BASED FORMULATION FOR TREATING MUCORMYCOSIS ~71:DEEPA NATRAJAN, DEAN, FACULTY OF PHARMACY SREE BALAJI MEDICAL COLLEGE AND HOSPITAL BIHER, CHROMPET, CHENNAI, TAMILNADU, 600044, India;HIMANSHU NIRMAL CHANDU, ALL INDIA INSTITUTE OF MEDICAL SCIENCES, RAIPUR, TATIBANDH,G E ROAD, CHHATTISGARH, 492099, India;KOTA SESHA BRAHMA SREE KRISHNA SASANKA, ALL INDIA INSTITUTE OF MEDICAL SCIENCES, DEOGHAR PANCHAYAT TRAINING INSTITUTE,

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2023/05731 ~ Complete ~54:METHOD FOR PREPARING CONTINUOUS CASTING PROTECTING SLAG FROM ELECTROLYTIC ALUMINUM WASTE SLAG, WASTE WATER AND BLAST FURNACE SLAG ~71:CHONGQING UNIVERSITY, NO. 174, SHAZHENG STREET, People's Republic of China ~72: DONG, Jingmeng;JIA, Jiaqi;WANG, Ran;YU, Liang;ZHANG, Lu~

2023/05738 ~ Complete ~54:COMPENSATION GROWTH MOWING METHOD OF DESERT PLANT ANABASIS APHYLLA ~71:SHIHEZI UNIVERSITY, No.221 , Beisi Road, Shihezi City, Zizhiquzhixiaxianjixingzhengquhua, Xinjiang, 832003, People's Republic of China ~72: GE, Jianbing;JIANG, Ping;YE, Jing~ 33:CN ~31:202210950255.9 ~32:09/08/2022

2023/05741 ~ Complete ~54:ANTI-CLDN18.2 ANTIBODY, DRUG CONJUGATE, AND PREPARATION METHOD THEREFOR AND USE THEREOF ~71:CSPC MEGALITH BIOPHARMACEUTICAL CO., LTD., 519, Cangsheng Road, High-Tech Development Zone Shijiazhuang, Hebei 050025, People's Republic of China ~72: BING YAO;BONING LIU;CAN YUAN;WEIRONG CAO;WENBIN LI;XIWU HUI;XIXIN HU;YANCUI WANG;ZHAOPENG SUN~ 33:CN ~31:202011385844.4 ~32:30/11/2020

2023/05745 ~ Complete ~54:AIRFOIL WITH AUGMENTED LIFT ~71:AMONYX APS, Lufthavnsvej 6 Stauning, 6900, Skjern, Denmark ~72: ALLAN MOLBECH~ 33:DK ~31:PA 2020 70836 ~32:15/12/2020

2023/05750 ~ Complete ~54:URACIL COMPOUND CONTAINING CARBOXYLATE FRAGMENT, PREPARATION METHOD THEREFOR, AND HERBICIDAL COMPOSITION AND USE THEREOF ~71:JIANGSU FLAG CHEMICAL INDUSTRY CO., LTD., No. 309 Changfeng River Road, Nanjing Chemical Industry Park, Nanjing, Jiangsu, 210000, People's Republic of China ~72: BAI, Congqiang;BU, Long;QIAN, Pin;WU, Yaojun;XU, Dan;YAO, Kaicheng;ZHANG, Pu~ 33:CN ~31:202110167827.1 ~32:07/02/2021

2023/05757 ~ Complete ~54:DOSING OF FEDRATINIB ~71:Impact Biomedicines, Inc., 86 Morris Avenue, SUMMIT 07901, NJ, USA, United States of America ~72: KRISHNA, Gopal;OGASAWARA, Ken~ 33:US ~31:63/126,289 ~32:16/12/2020

2023/05765 ~ Complete ~54:NANOMATERIALS COMPRISING ESTER-LINKED ACETALS ~71:BEAM THERAPEUTICS INC., 238 Main Street, United States of America ~72: CAMPBELL, Elizabeth Anne;CHHABRA, Milloni Balwantkumar;HAMILTON, Gregory Lawrence;PATWARDHAN, Neeraj Narendra;SAGO, Cory Dane;SHEHATA, Mina Fawzy~ 33:US ~31:63/128,680 ~32:21/12/2020;33:US ~31:63/223,971 ~32:20/07/2021;33:US ~31:63/287,390 ~32:08/12/2021

2023/05723 ~ Complete ~54:CROSS-BORDER TRADE DATA STORAGE METHOD BASED ON PARALLEL PBFT CONSENSUS MECHANISM ~71:Southwest Forestry University, 300 Bailongsi, Panlong District, Kunming, Yunnan Province, 650224, People's Republic of China ~72: DAI, Fei;HUANG, Yuxiang;QIN, Mingming;WANG, Leiguang~

2023/05733 ~ Complete ~54:HEADER BOARD ~71:CRAIG DAVID DAVIES, 3 Martha Street, Kloofendal Ext. 3, Roodepoort, South Africa;GORDON DANIEL DAVIES, 12 Maroela Road, Dal Fouche, Springs, Gauteng, 1559, South Africa ~72: CRAIG DAVID DAVIES;GORDON DANIEL DAVIES~ 33:ZA ~31:2022/02448 ~32:28/02/2022

2023/05739 ~ Complete ~54:NON-HUMAN ANIMALS HAVING A HUMANIZED TSLP GENE, A HUMANIZED TSLP RECEPTOR GENE, AND/OR A HUMANIZED IL7RA GENE ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: BRYDGES, Susannah;FRIETA, Davor;GURER, Cagan;MURPHY, Andrew J.;SRIVATSAN, Subhashini;TANG, Yajun~ 33:US ~31:63/128,258 ~32:21/12/2020

2023/05746 ~ Complete ~54:CHLOROSIS RESISTANT CYTOPLASMIC MALE STERILE BRASSICA PLANTS ~71:ENZA ZADEN BEHEER B.V., Haling 1 E, 1602 DB, Enkhuizen, Netherlands ~72: BRENDA JOHANNA MARIA DE LANGE;GERARD NIJS KOOREVAAR;ILJA ROOBEEK;ROY BRIGA~

2023/05748 ~ Complete ~54:LIPID NANOPARTICLES FOR DELIVERY OF NUCLEIC ACIDS, AND RELATED METHODS OF USE ~71:AKAGERA MEDICINES, INC., 5 Essex Street, Boxford, Massachusetts, 01921, United States of America ~72: ALEXANDER KOSHKARYEV;DARYL C DRUMMOND;DMITRI B KIRPOTIN;MARK E HAYES;ROSS B FULTON~ 33:US ~31:63/118,534 ~32:25/11/2020

2023/05752 ~ Complete ~54:ELECTRONIC SECURITY SYSTEM ~71:TYRPA, Miroslav, Korunni 1024/28, OSTRAVA 70900, CZECH REPUBLIC, Czech Republic ~72: TYRPA, Miroslav~ 33:CZ ~31:PV 2021-18 ~32:18/01/2021

2023/05713 ~ Provisional ~54:RFID SCANNER FOR THE SOUTH AFRICAN MUNICIPALITY ~71:Keegan Reddy, 14 Eastmoor Crescent Umhlanga Rocks Durban, South Africa;Keith Govender, 23 Parklane Road Ottawa Riet River Verulam, South Africa;Thashen Naidoo, 1 Mitha Road Mithanagar Tongaat 4399, South Africa ~72: Keegan Reddy;Keith Govender;Thashen Naidoo~

2023/05714 ~ Provisional ~54:SYSTEM CONFIGURATION FOR POWERING RESISTIVE HEATING ELEMENTS FROM POWER INVERTERS ~71:Neill Human, 15 Lobelia Street, South Africa ~72: Neill Human~

2023/05718 ~ Complete ~54:AN IOT-BASED VEHICLE TRACKING AND DIAGNOSTIC SYSTEM AND METHOD THEREOF ~71:Dr. Kazi Kutubuddin Sayyad Liyakat, S/o Dilshadbegam Kazi, At- Khed, Kegaon Post, North Solapur Taluka, Solapur District, Maharashtra, India. Pin Code:413255, India;Dr. Ravichandran Sivaramakrishnan, Associate Professor, Department of Computer Science & Engineering, School of Technology, GITAM University, Rudraram, Hyderabad, Telangana, India. Pin Code:502329, India;Dr.Chidurala Srinivas, Professor, Department of Mechanical Engineering, Vaageswari College of Engineering, Karimnagar, Telangana, India. Pin Code:505527, India;Dr.K.Gurnadha Gupta, Assistant Professor, Department of CSE, K.L Deemed to be University, Green fields, Vaddeswaram, Guntur District, Andhra Pradesh, India. Pin Code:522502, India;Dr.Sushma Jaiswal, Assistant Professor, Department of Computer Science & Information Technology (CSIT), Guru Ghasidas Vishwavidyalaya (A Central University), Koni, Bilaspur, Chhattisgarh, India. Pin Code: 495009, India;Mr.Anandbabu Gopatoti, Department of ECE, Hindusthan College of Engineering & Technology, Coimbatore, Tamil Nadu, India. Pin Code: 641032, India;Mr.Neeraj Kumar, Ph.D Research Scholar in School of Information Technology, University Teaching Department (UTD), Rajiv Gandhi Proudyogiki Vishwavidyalaya (RGPV), Bhopal, Madhya Pradesh, India. Pin Code:462033, India;Mr.Pidikiti Surendra Babu, R & D Engineer, TLC Industrial Equipments Pvt.Ltd, Hyderabad, Telangana, India. Pin Code: 500072,

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2023/05719 ~ Complete ~54:A UNIQUE MACHINE LEARNING BASED BIOMEDICAL IMAGE ANALYSIS DEVICE FOR ACCURATE DETECTION OF DISEASE ~71:Dr. B. R. Ambedkar Chair- Andhra University, Andhra University, Visakhapatnam, Andhra Pradesh, India. Pin Code: 530003, India;Mr.Pushkal Padala, Under Graduate Student, B.Tech (4th Year), Department of CSE, The National Institute of Engineering, Mysore, Karnataka, India. Pin Code:570008, India;Mrs.K.Venkata Lakshmi, Research Scholar, Department of CS & SE, A.U. College of Engineering (A), Andhra University, Visakhapatnam, Andhra Pradesh, India. Pin Code: 530003, India;Prof. James Stephen Meka, Dr. B. R. Ambedkar Chair Professor, Dean, A.U. TDR-HUB, Andhra University, Visakhapatnam, Andhra Pradesh, India. Pin Code: 530003, India;Prof. Prasad Reddy P.V.G.D., Senior Professor, Department of CS & SE, A.U. College of Engineering (A), Andhra University, Visakhapatnam, Andhra Pradesh, India. Pin Code: 530003, India ~72: Mr.Pushkal Padala;Mrs.K.Venkata Lakshmi;Prof. James Stephen Meka;Prof. Prasad Reddy P.V.G.D.~ 33:IN ~31:202341015213 ~32:07/03/2023

2023/05720 ~ Complete ~54:A NOVEL SYSTEM FOR SECURE DATA TRANSMISSION OVER A NETWORK BASED ON CODE GENERATION AND WORKING METHOD THEREOF ~71:Dr. B. R. Ambedkar Chair- Andhra University, Andhra University, Visakhapatnam, Andhra Pradesh, India. Pin Code: 530003, India;Mr. Ravikumar Inakoti, Research Scholar, Department of CS & SE, A.U. College of Engineering (A), Andhra University, Visakhapatnam, Andhra Pradesh, India. Pin Code: 530003, India;Prof. James Stephen Meka, Dr. B. R. Ambedkar Chair Professor, Dean, A.U. TDR-HUB, Andhra University, Visakhapatnam, Andhra Pradesh, India. Pin Code: 530003, India;Prof. Prasad Reddy P.V.G.D., Senior Professor, Department of CS & SE, A.U. College of Engineering (A), Andhra University, Visakhapatnam, Andhra Pradesh, India. Pin Code: 530003, India ~72: Mr. Ravikumar Inakoti;Prof. James Stephen Meka;Prof. Prasad Reddy P.V.G.D.~ 33:IN ~31:202341015104 ~32:07/03/2023

2023/05747 ~ Complete ~54:CYCLOBENZAPRINE TREATMENT FOR ALCOHOL USE DISORDER ~71:TONIX PHARMACEUTICALS HOLDING CORP., 26 Main Street, Suite 101 Chatham, New Jersey, 07928, United States of America ~72: GREG M SULLIVAN;SETH LEDERMAN~ 33:US ~31:63/116,777 ~32:20/11/2020

2023/05735 ~ Complete ~54:URBAN FOREST BIOACOUSTIC MONITORING AND POSITIONING METHOD AND SYSTEM BASED ON THREE-DIMENSIONAL SPACE ~71:GUANGZHOU UNIVERSITY, No. 230 Waihuanxi Road, Higher Education Mega Centre, Panyu District, Guangzhou, Guangdong, 510006, People's Republic of China;RESEARCH INSTITUTE OF TROPICAL FORESTRY, CHINESE ACADEMY OF FORESTRY, No. 682, Guangshan Road 1, Tianhe District, Guangzhou, 510520, People's Republic of China ~72: Chengyun ZHANG;Ruichen WU;Taiqi RUAN;Yixin CHEN;Zezhou HAO~

2023/05736 ~ Complete ~54:A SMART ELECTRICAL SWITCH BOARD ~71:ZOLA IVAN LENA, 11 Bantry Road, 48 Bantry Close, Bryanston, South Africa ~72: ZOLA IVAN LENA~

2023/05740 ~ Complete ~54:ARRANGEMENT AND METHOD FOR CONTROLLING PRESSURE FILTER ~71:METSO OUTOTEC FINLAND OY, Lokomonkatu 3, Finland ~72: KAUVOSAARI, Sakari;KOSONEN, Mika;PULLI, Mikko;TANTTU, Leena~ 33:FI ~31:20206090 ~32:30/10/2020

2023/05758 ~ Complete ~54:OLIGONUCLEOTIDE-BASED THERAPEUTICS AND USES THEREOF ~71:SPEER, Tod, 1700 Technology Dr NE, Suite 112, WILLMAR 56201, MN, USA, United States of America ~72: SPEER, Tod~ 33:US ~31:63/108,029 ~32:30/10/2020

2023/05761 ~ Complete ~54:METHODS OF TREATING CUTANEOUS LUPUS ERYTHEMATOSUS AND SYSTEMIC LUPUS ERYTHEMATOSUS ~71:Biogen MA Inc., 225 Binney Street, CAMBRIDGE 02142, MA, USA, United States of America ~72: GAUDREAULT, Francois;NAIK, Himanshu~ 33:US ~31:63/121,194 ~32:03/12/2020

2023/05722 ~ Complete ~54:DENDROBIUM OFFICINALE BUCCAL TABLET AND PREPARATION METHOD THEREOF ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467041, People's Republic of China ~72: LI, Yufeng;LU, Min;LU, Tie;SONG, Shuda;WANG, Fumei;WANG, Shuaihao;XIE, Zhaohui~

2023/05724 ~ Complete ~54:PREMIX FOR PREVENTING ACUTE ENTERITIS OF CHANNA STRIATA AND PREPARATION METHOD AND APPLICATION THEREOF ~71:GUANGDONG HINTER BIOTECHNOLOGY GROUP CO., LTD., No. 56, Xingui Second Road, Guangzhou High-tech Industrial Development Zone, Guangdong Province, 510530, People's Republic of China ~72: HU, Haibin;LI, Yanxian;PAN, Leilei;ZHANG, Jian;ZHEN, Shuqi~

2023/05721 ~ Complete ~54:DUCTILE CAST IRON MATERIAL AND PREPARATION METHOD AND APPLICATION THEREOF ~71:Zhejiang Youxing Electronic Technology Co., Ltd., No. 19, Shuangqiao Road, Huabu Town, Kaihua County, Quzhou City, Zhejiang Province, 324302, People's Republic of China ~72: HU, Linbao~

2023/05756 ~ Complete ~54:LYOTROPIC LIQUID CRYSTALLINE PHASE PARTICLE ~71:Royal Melbourne Institute of Technology, 124 Latrobe Street, MELBOURNE 3000, VICTORIA, AUSTRALIA, Australia ~72: CONN, Charlotte;DRUMMOND, Calum;DYETT, Brendan Paul;YU, Haitao~ 33:AU ~31:2020903958 ~32:30/10/2020

2023/05763 ~ Complete ~54:IMMUNOGLOBULINE CONSTRUCTS WITH MULTIPLE BINDING DOMAINS ~71:Amgen Inc., One Amgen Center Drive, THOUSAND OAKS 91320-1799, CA, USA, United States of America ~72: AMER, Brendan;BROZY, Johannes;GHATTYVENKATAKRISHNA, Pavan~ 33:US ~31:63/121,166 ~32:03/12/2020

2023/05751 ~ Complete ~54:COMPOSITIONS FOR TREATING DRY AGE-RELATED MACULAR DEGENERATION (AMD) ~71:Cognition Therapeutics, Inc., 2403 Sidney Street, Suite 261, PITTSBURGH 15203, PA, USA, United States of America ~72: CAGGIANO, Anthony;CATALANO, Susan;HAMBY, Mary;IZZO, Nicholas;LOOK, Gary;RISHTON, Gilbert~ 33:US ~31:63/124,695 ~32:11/12/2020

2023/05755 ~ Complete ~54:BCMA-TARGETED CAR-T CELL THERAPY FOR MULTIPLE MYELOMA ~71:Janssen Biotech, Inc., 800/850 Ridgeview Drive, HORSHAM 19044, PA, USA, United States of America;Nanjing Legend Biotech Co., Ltd., No.6 Building of Nanjing Life Science Town, No. 568 Longmian Avenue, Jiangning District, NANJING 211100, JIANGSU, CHINA (P.R.C.), People's Republic of China ~72: FAN, Xiaohu;SCHECTER, Jordan Mark~ 33:IB ~31:2020/133598 ~32:03/12/2020

2023/05762 ~ Complete ~54:MICE EXPRESSING HUMANIZED FC ALPHA RECEPTORS ~71:Regeneron Pharmaceuticals, Inc., 777 Old Saw Mill River Road, TARRYTOWN 10591, NY, USA, United States of America ~72: MACDONALD, Lynn;MCWHIRTER, John;MURPHY, Andrew J.;TU, Naxin~ 33:US ~31:63/126,326 ~32:16/12/2020

2023/05764 ~ Complete ~54:HARDFACED ROTARY DRILL BIT ~71:Sandvik Mining and Construction Tools AB, SANDVIKEN 81181, SWEDEN, Sweden ~72: ANDERSSON, Erik;FÄLLSTRÖM, Stefan;KRAFT, Hanna~ 33:EP ~31:20215376.3 ~32:18/12/2020

2023/05767 ~ Complete ~54:MODIFIED PARAPOXVIRUS HAVING INCREASED IMMUNOGENICITY ~71:PRIME VECTOR TECHNOLOGIES GMBH, Herrenbergerstr. 24, Germany ~72: AMANN, Ralf;SALOMON, Ferdinand~ 33:EP ~31:20216198.0 ~32:21/12/2020

2023/05716 ~ Provisional ~54:THE DONOVAN MATTHEWS MOTHERS METHOD OF STOPPING CHILDREN PLAYING WITH FIRE AND TO STUDY ~71:Amram Micaih Mofomme, 888 Block C, South Africa ~72: Amram Micaih Mofomme~ 33:EU ~31:1 ~32:30/11/2022;33:OA ~31:1 ~32:30/11/2022;33:WO ~31:1 ~32:30/11/2022

2023/05727 ~ Complete ~54:TISSUE CULTURE MEDIUM AND CULTURE METHOD FOR DETOXIFYING POTATOES RAPIDLY ~71:Anhui Science And Technology University, No.9 Donghua Road, Fengyang County, Chuzhou City, Anhui Province, People's Republic of China ~72: Dong Xinde;He keqin;Lu xiaomin;Zhang Xueping~ 33:CN ~31:2023104729202 ~32:27/04/2023

2023/05732 ~ Complete ~54:BOW APPARATUS AND METHOD FOR DETECTING SEEPAGE OF ANTI-SEEPAGE WALL WITH RESISTIVITY ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, NO. 168, TAIFENG STREET, People's Republic of China;ZHEJIANG GUANGCHUAN ENGINEERING CONSULTING CO., LTD., NO. 50, FENGQI EAST ROAD, People's Republic of China;ZHEJIANG INSTITUTE OF HYDRAULICS & ESTUARY (ZHEJIANG INSTITUTE OF MARINE PLANNING AND DESIGN), NO. 50, FENGQI EAST ROAD, People's Republic of China ~72: HU, Xiongwu;JIANG, Shuhai;JIANG, Xiaoyi;LIANG, Donghui;LIU, Fuda;OU, Yuanchao;SUN, Binyang;TAN, Lei;WANG, Yeling;XI, Chaoqiang;XU, Hu;XU, Shi'ang;ZHANG, Pingsong~ 33:CN ~31:202211192113.7 ~32:28/09/2022

2023/05734 ~ Complete ~54:A ROBOT FLEXIBLE ONLINE CLEANING MACHINE ~71:CHENGDU VOCATIONAL AND TECHNICAL COLLEGE OF INDUSTRY, No. 818, Da 'an Road, Zhengxing Street, Tianfu New District, Chengdu City, Sichuan Province, 610213, People's Republic of China ~72: HAN, Yong;LIU, Yu;QIAO, Jianchun;WU, Zhaoyu;YANG, Shuang;YANG, Xingying;YU, Qian~

2023/05737 ~ Complete ~54:SYSTEM AND METHOD FOR SCALABLE AUTOMATED MAINTENANCE OPTIMISATION ~71:OX MOUNTAIN LIMITED, 2 Littlegate Street, United Kingdom ~72: DIBSDALE, Charles;MICHAEL, Sam~ 33:US ~31:63/110,428 ~32:06/11/2020;33:US ~31:17/165,045 ~32:02/02/2021;33:US ~31:17/484,022 ~32:24/09/2021;33:US ~31:63/255,546 ~32:14/10/2021

2023/05742 ~ Complete ~54:FLUORESCENT FUSION BASED HETEROLOGOUS PEPTIDE PRODUCTION ~71:STELLENBOSCH UNIVERSITY, Admin B, Victoria Street, Stellenbosch, Western Cape, 7600, South Africa ~72: ANTON DU PREEZ VAN STADEN;CARINE SMITH;DOMINIC NICHOLAS;LEON MILNER THEODORE DICKS;ROSS RAYNE VERMEULEN~ 33:ZA ~31:2020/07119 ~32:16/11/2020

2023/05743 ~ Complete ~54:METHODS AND COMPOSITIONS FOR MODULATING CAR-T ACTIVITY ~71:SANA BIOTECHNOLOGY, INC., 188 East Blaine Street, Suite 400, Seattle, Washington, 98102, United States of America ~72: LINDONG WENG;SONJA SCHREPFER;TERRY J FRY~ 33:US ~31:63/133,171 ~32:31/12/2020;33:US ~31:63/136,172 ~32:11/01/2021;33:US ~31:63/175,003 ~32:14/04/2021;33:US ~31:63/255,795 ~32:14/10/2021;33:US ~31:63/288,477 ~32:10/12/2021

2023/05749 ~ Complete ~54:MODULATORS OF THE INTEGRATED STRESS PATHWAY ~71:ABBVIE INC., 1 North Waukegan Road, North Chicago, Illinois, 60064, United States of America;CALICO LIFE SCIENCES LLC, 1170 Veterans Blvd, South San Francisco, California, 94080, United States of America ~72: CARMELA SIDRAUSKI;HANAE BENELKEBIR;JOHN T RANDOLPH;KAMALDEEP K CHOHAN;KATHLEEN ANN

MARTIN;KATHLEEN J MURAUSKI;KATHRYN A STARBUCK;LEI SHI;MICHAEL J DART;RUSSELL C SMITH;SEBASTIAN SCHWENK;STEVEN J EDESON;XIANGDONG XU;YUNSONG TONG~ 33:US ~31:63/108,109 ~32:30/10/2020;33:US ~31:63/256,991 ~32:18/10/2021

2023/05753 ~ Complete ~54:FERROPORTIN-INHIBITORS FOR THE USE IN THE TREATMENT OF MYELODYSPLASTIC SYNDROMES (MDS) ~71:Vifor (International) AG, Rechenstr. 37, ST. GALLEN 9001, SWITZERLAND, Switzerland ~72: DÜRRENBERGER, Franz;MANOLOVA, Vania;VINCHI, Francesca~ 33:US ~31:63/139,586 ~32:20/01/2021;33:EP ~31:21170897.9 ~32:28/04/2021

2023/05759 ~ Complete ~54:CONJUGATED AFLATOXIN B TO PROTECT AGAINST MYCOTOXICOSIS ~71:Intervet International B.V., Wim de Körverstraat 35, BOXMEER 5831 AN, THE NETHERLANDS, Netherlands ~72: SEGERS, Ruud Philip Antoon Maria;WALCZAK, Mateusz;WITVLIET, Maarten Hendrik~ 33:EP ~31:20216357.2 ~32:22/12/2020

2023/05760 ~ Complete ~54:IMAGE AUGMENTATION TECHNIQUES FOR AUTOMATED VISUAL INSPECTION ~71:Amgen Inc., One Amgen Center Drive, THOUSAND OAKS 91320-1799, CA, USA, United States of America ~72: BERNACKI, Joseph Peter;FINE, Jordan Ray;GADHVI, Nishant Mukesh;GOODWIN, Al Patrick;HAMPSHIRE, Kenneth E.;JAIN, Aman Mahendra;MILNE, Graham F.;PEARSON, Thomas Clark;PEREZ VARELA, Osvaldo;TAN, Aik Jun~ 33:US ~31:63/120,508 ~32:02/12/2020

2023/05766 ~ Complete ~54:PHOSPHATE BASED TARGETS ~71:UNIVERSITETET I OSLO, Boks 1072, Blindern, Norway ~72: HENRIKSEN, Gjermund;SCHOULTZ, Bent Wilhelm~ 33:GB ~31:2017229.2 ~32:30/10/2020

2023/05768 ~ Complete ~54:MICROCHANNEL FEED SYSTEM FOR AN AEROSOL DELIVERY DEVICE ~71:RAI STRATEGIC HOLDINGS, INC., 401 North Main Street, United States of America ~72: HEJAZI, Vahid;MCMAHAN, Cassidy S.;SEARS, Stephen B.;SEBASTIAN, Andries Don;SUR, Rajesh~ 33:US ~31:17/108,676 ~32:01/12/2020

2023/05769 ~ Complete ~54:FREIGHT SOCK AND METHOD OF USING SAME TO SECURE A LOAD ~71:Ashley Julian Boyce MULLIGAN, 149 Galena Avenue, Kloofendal, South Africa;Claudia Angelique SINGH, 4 Tannenberg Estate, 47 Mulbarton Rd, Beverley Ext 3, South Africa;Tania MULLIGAN, 149 Galena Avenue, Kloofendal, South Africa ~72: Claudia Angelique SINGH~ 33:ZA ~31:2022/05957 ~32:30/05/2022

2023/05711 ~ Provisional ~54:TRANSFORAMINAL LUMBAR INTERBODY FUSION IMPLANT ~71:BECKER, Gert Stephanus, 1378b Breyer Avenue, Waverley, South Africa;EKSTEEN, Jacob Adriaan, 3 Ou Kraal Street, Paarl, South Africa;VENTER, Shawn, 1667 Nouveau Street, River Farm, Val de Vie Estate, South Africa ~72: BECKER, Gert Stephanus;EKSTEEN, Jacob Adriaan;VENTER, Shawn~

2023/05712 ~ Provisional ~54:BROAD-SPECTRUM ORGANIC HERBICIDE ~71:MANGOSUTHU UNIVERSITY OF TECHNOLOGY, 511 MANGOSUTHU HIGHWAY, UMLAZI, DURBAN, 4031, SOUTH AFRICA, South Africa ~72: ANANDRAJ, Akash~

2023/05715 ~ Provisional ~54:A BULK MATERIAL BIN ~71:BENNETTO, Peter Geoffrey, 18 Vida Nova, Buh Rein, Cape Town 7570, SOUTH AFRICA, South Africa ~72: BENNETTO, Peter Geoffrey~

2023/05717 ~ Provisional ~54:STREET LIGHTS PREVENTING CABLE THEFTS ~71:G.J. Cloete, 112 Nothdene st, South Africa ~72: G.J. Cloete (CLOE66)~

2023/05730 ~ Complete ~54:WATER GARBAGE CLEANING AND TRANSPORTING MACHINE BASED ON TRIZ THEORY ~71:Zhengzhou University of Aeronautics, No.2, University Middle Road, Erqi District, Zhengzhou

City, Henan Province, 450000, People's Republic of China ~72: Li Changjin;Li Ming;Li Mufan;Li Xuejiao;Liu Dewen;Wang Xiuhong;Zhang Xuecheng;Zhang Yijing~ 33:CN ~31:2022109633095 ~32:11/08/2022

. - APPLIED ON 2023/05/30 -

2023/05772 ~ Complete ~54:BUILDING ENERGY-SAVING STRUCTURE AND BUILDING ENERGY-SAVING METHOD ~71:China Construction Fifth Engineering Bureau (Yantai) Construction Engineering Co., Ltd., 10th Floor, Building B, Longtai Building, No. 180, Yingchun Street, Laishan District, Yantai City, Shandong Province, 264000, People's Republic of China ~72: HUANG, Xinjian;JIANG, Xinxin;LU, Hairong;YIN, Hailong;YU, Jianjun~ 33:CN ~31:2022111074944 ~32:13/09/2022

2023/05774 ~ Complete ~54:CLOSED RECOVERY DEVICE FOR BUILDING CONSTRUCTION WASTE GAS ~71:China Construction Fifth Engineering Division Corp.,Ltd., No. 158, Zhongyi 1st Road, Yuhua District, Changsha City, Hunan Province, 410000, People's Republic of China ~72: CHANG, Rongjia;JIANG, Xinxin;YIN, Hailong;YU, Jianjun;ZHOU, Yinan~ 33:CN ~31:2022106436343 ~32:09/06/2022

2023/05775 ~ Complete ~54:SUPPORT COLUMN FOR PREFABRICATED BUILDING ~71:China Construction Fifth Engineering Bureau (Yantai) Construction Engineering Co., Ltd., 10th Floor, Building B, Longtai Building, No. 180, Yingchun Street, Laishan District, Yantai City, Shandong Province, 264000, People's Republic of China ~72: CHEN, Mengmeng;HUANG, Xinjian;JIANG, Xinxin;LU, Hairong;ZHANG, Chong~ 33:CN ~31:2022223474021 ~32:05/09/2022

2023/05776 ~ Complete ~54:SPECIAL SUBSTRATE COMPOSITION FOR STRAWBERRY TISSUE CULTURE ~71:Anhui Science And Technology University, No.9 Donghua Road, Fengyang County, Chuzhou City, Anhui Province, People's Republic of China ~72: He keqin;Lu xiaomin;Su Shuangfei;Xia keming~ 33:CN ~31:2023104413214 ~32:20/04/2023

2023/05779 ~ Complete ~54:GLUCURONYLATION AS ACIDIC POST-TRANSLATIONAL MODIFICATION ON THERAPEUTIC MONOCLONAL ANTIBODIES ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, New York, 10591-6707, United States of America ~72: SHUNHAI WANG~ 33:US ~31:62/624,338 ~32:31/01/2018

2023/05782 ~ Complete ~54:RELAY FACILITATING FORWARD INSTALLATION ~71:Huaneng Tongliao Wind Power Co. Ltd, Intersection of Qinglongshan Street and Shengli North Road, Tongliao City 028000, Inner Mongolia, CHINA (P.R.C.), People's Republic of China ~72: ZHANG, Guohui~ 33:CN ~31:2022106103970 ~32:31/05/2022

2023/05784 ~ Complete ~54:SHOCK-PROOF FIXING DEVICE FOR LEAD WIRE OF T-SHAPED LINE ~71:Huaneng Tongliao Wind Power Co. Ltd, Intersection of Qinglongshan Street and Shengli North Road, Tongliao City 028000, Inner Mongolia, CHINA (P.R.C.), People's Republic of China ~72: CHEN, Hongwu;FAN, Ruibing;FU, Qingdi;WANG, Chong;WU, Mingqiang;YIN, Xudong;ZHANG, Xu~ 33:CN ~31:2022105979770 ~32:30/05/2022

2023/05788 ~ Complete ~54:A COMBINED DEPRESSANT FOR FLOTATION SEPARATION OF CU-ZN SULFIDE MINERALS AND ITS APPLICATION ~71:Kunming University of Science and Technology, No. 68 Xuefu Road, Wuhua District, Kunming City, People's Republic of China ~72: Bin Pei;Dianwen Liu;Hao Lai;Haoxiang Wang;Jinpeng Cai;Liuyang Dong;Peilun Shen;Rong Peng;Xiaolin Zhang;Yinyu Ma;Yulong Xiang;Zhao Xie~ 33:CN ~31:202310512978.5 ~32:09/05/2023

2023/05790 ~ Complete ~54:A RETENTION DEVICE AND A METHOD OF USE THEREOF ~71:RIM-LOCK INNOVATIONS PTY LTD, 22 Norton Court, Moranbah, Australia ~72: GUINEA, Joseph~ 33:AU ~31:2020904163 ~32:13/11/2020

2023/05793 ~ Complete ~54:A METHOD OF EVALUATING CIRCUIT PROTECTION OF A POWER NETWORK ~71:UNIVERSITY OF PRETORIA, Lynnwood Road, Hillcrest, PRETORIA 0002, SOUTH AFRICA, South Africa;UNIVERSITY OF SHARJAH, University City Road, Sharjah, UNITED ARAB EMIRATES, United Arab Emirates ~72: BANSAL, Ramesh;NAIDOO, Raj;SLABBERT, Martin~ 33:ZA ~31:2020/06849 ~32:03/11/2020

2023/05798 ~ Complete ~54:BALL FLOAT VENT VALVE ~71:CATERPILLAR INC., 100 NE Adams Street, United States of America ~72: CHEN, Dayao;ERDMAN, Bill, F.;O'NEILL, William, N.;RISATTI, Bruno, L.;ZOLVINSKI, Michael, A.~ 33:US ~31:17/112,624 ~32:04/12/2020

2023/05801 ~ Complete ~54:METHOD FOR PRODUCING WEARABLE ARTICLE ~71:ZUIKO Corporation, 1-2, Saitohanada 2-chome, IBARAKI-SHI 5670082, OSAKA, JAPAN, Japan ~72: UMEBAYASHI, Toyoshi~ 33:JP ~31:2020-199864 ~32:01/12/2020

2023/05806 ~ Complete ~54:NEW PRODUCTION METHOD OF CARBON (NANO)-STRUCTURES FROM PYROLYSIS OIL ~71:CarbonX B.V., Rembrandt Tower, 35th Floor, Amstelplein 1, AMSTERDAM 1096 HA, THE NETHERLANDS, Netherlands ~72: CREPIN, Robin;SORDI, Daniela;VAN RAALTEN, Rutger Alexander David~ 33:EP ~31:20209899.2 ~32:25/11/2020

2023/05807 ~ Complete ~54:METHOD FOR PREPARING A CHOCOLATE PRODUCT ~71:Cargill, Incorporated, 15407 McGinty Road West, USA, United States of America ~72: DE WITTE, Ingrid Godelieve Liliane;TROCH, Marc Frans Valentine~ 33:IB ~31:2020/084155 ~32:01/12/2020;33:IB ~31:2020/084156 ~32:01/12/2020

2023/05811 ~ Complete ~54:ISOCYCLOSERAM FORMULATION ~71:Syngenta Crop Protection AG, Rosentalstrasse 67, BASEL 4058, SWITZERLAND, Switzerland ~72: HOUILLON, Floriane;MASON, Beverley;ROE, Stephen;STUART, Clair~ 33:EP ~31:20215262.5 ~32:18/12/2020

2023/05812 ~ Complete ~54:PLANT EXTRACTING METHOD ~71:Givaudan SA, Chemin de la Parfumerie 5, VERNIER 1214, SWITZERLAND, Switzerland ~72: MEUNIER , Marie;REYNAUD , Romain;SCANDOLERA, Amandine;SENNELIER PORTET, Bénédicte~ 33:GB ~31:2020183.6 ~32:18/12/2020

2023/05818 ~ Complete ~54:PHARMACEUTICAL COMPOSITION OF NAPHTHALENE DERIVATIVES AS MULTI-TARGET THERAPEUTIC AGENTS FOR THE TREATMENT OF ALZHEIMER'S DISEASE ~71:Centro de Neurociencias de Cuba, Calle 190 No. 19818, entre 25 y 27, Cubanacán, Playa, LA HABANA 11600, CUBA, Cuba ~72: ÁGUILA CORDOVA, Adriana;BENCOMO MARTÍNEZ, Alberto;CASTRO-PALOMINO ANTELA, Kathleen;CERVANTES LLANOS, Majel;DÍAZ GARCÍA, Orestes de Jesús;DORESTE BROWN, Miriam;GARCÍA PUPO, Laura;GONZÁLEZ MESA, Leonora;LEÓN CHAVIANO, Samila;MENÉNDEZ SOTO DEL VALLE, Roberto;OTAÑO TAMAYO, Laura;PÉREZ PERERA, Rafaela;PENTÓN ROL, Giselle;RIVERA MARRERO, Suchitil;RODRÍGUEZ-TANTY, Chryslaine;SABLÓN CARRAZANA, Marquiza~ 33:CU ~31:2020-0087 ~32:24/11/2020

2023/05837 ~ Complete ~54:MEASURING DEVICE ~71:TRUDI PIPER, Ground Floor Autoparks House, 13 Park Crescent, Glenhazel, South Africa ~72: DIEDERIK ARNOLDUS KAPP;PHILIP STEPHEN PIPER~ 33:ZA ~31:2020/07465 ~32:09/12/2020

2023/05797 ~ Complete ~54:DEVICE FOR HELPING A VEHICLE TO PASS OVER AN OBSTACLE ~71:MYD'L, 34 boulevard Ornano, France ~72: BELMAN, Pierre;ENGLER, Frédéric~ 33:FR ~31:2012901 ~32:09/12/2020

2023/05803 ~ Complete ~54:A SYNERGISTIC PERFUMING COMPOSITION ~71:Firmenich SA, 7, rue de la Bergère, SATIGNY 1242, SWITZERLAND, Switzerland ~72: ENRIQUEZ ANDRADE, Gerardo;HAWARD, Mark;KNAB, Robert;VON TSCHARNER, Sabine~ 33:US ~31:63/127,252 ~32:18/12/2020;33:EP ~31:21155615.4 ~32:05/02/2021

2023/05810 ~ Complete ~54:WEARING ARTICLE ~71:ZUIKO Corporation, 1-2, Saitohanada 2-chome, IBARAKI-SHI 5670082, OSAKA, JAPAN, Japan ~72: UMEBAYASHI, Toyoshi~ 33:JP ~31:2020-199863 ~32:01/12/2020

2023/05820 ~ Complete ~54:IMPROVED RECOIL REDUCTION SYSTEM ~71:HILL, Robert Duane, 235 Pin Oak Dr., Madison, United States of America ~72: HILL, Robert Duane~ 33:US ~31:63/116,307 ~32:20/11/2020

2023/05780 ~ Complete ~54:A FLAVOURED SEALWORT WOLFBERRY DRINK ~71:Hanzhong Ruijiahong Agriculture Co., Ltd., No. 7077, Community Group 1, Yangjiaba Village, Hanshan Street, Nanzheng District, Hanzhong City, Shaanxi Province, 723102, People's Republic of China ~72: Long Wang~ 33:CN ~31:202211038603.1 ~32:25/08/2022

2023/05809 ~ Complete ~54:GLUCOAMYLASE VARIANTS AND POLYNUCLEOTIDES ENCODING SAME ~71:Novozymes A/S, Krogshoejvej 36, BAGSVAERD 2880, DENMARK, Denmark ~72: KURAKATA, Yuma;TOMIKI-HASHIZUME, Aki~ 33:DK ~31:PA 2020 01234 ~32:02/11/2020

2023/05817 ~ Complete ~54:IRAK DEGRADERS AND USES THEREOF ~71:Kymera Therapeutics, Inc., 200 Arsenal Yards Blvd., Suite 230, WATERTOWN 02472, MA, USA, United States of America ~72: ZHENG, Xiaozhang;ZHU, Xiao~ 33:US ~31:63/123,330 ~32:09/12/2020

2023/05771 ~ Complete ~54:A GAS SENSOR AND ITS FABRICATION METHOD ~71:Lingnan Normal University, No. 29, Cunjin Road, Chikan District, Zhanjiang City, Guangdong Province, 524048, People's Republic of China ~72: Guiying LIU;Min ZHAO;Xiaotao HUANG~

2023/05791 ~ Complete ~54:NOVEL COMPOSITION FOR CURLING HAIR OR CURLING EYELASHES ~71:DI VISCO, 65 chemin de la Mouche, France ~72: Isabel GRACIA;VISCOGLIOSI, Sébastien Frédéric~ 33:FR ~31:FR20/14069 ~32:23/12/2020

2023/05800 ~ Complete ~54:METHOD, COMPUTER PROGRAM, COMPUTER SYSTEM AND ASSEMBLY FOR THE NON-DESTRUCTIVE DETERMINATION OF THE JUICE CONTENT OF JUICE FRUITS, AS WELL AS THE USE OF THIS ASSEMBLY FOR THE QUALITY CLASSIFICATION OF JUICE FRUITS ~71:AGRICOLA LUSIA S.R.L., Via dell'Artigianato, 261, Italy ~72: CAMPAGNARO, Daniele;GAETAN, Carlo;GIRARDI, Paolo;MODICA, Nicola;RIELLO, Pietro~ 33:IT ~31:102020000030629 ~32:11/12/2020

2023/05805 ~ Complete ~54:END FLAP ENGAGEMENT ASSEMBLY FOR ERECTING CARTONS AND RELATED SYSTEMS AND METHODS ~71:Graphic Packaging International, LLC, Law Department - 9th Floor, 1500 Riveredge Parkway, Suite 100, ATLANTA 30328, GA, USA, United States of America ~72: SCHROEDER, Derek~ 33:US ~31:63/129,060 ~32:22/12/2020

2023/05814 ~ Complete ~54:THERAPEUTIC PEPTIDE FORMULATIONS ~71:Eli Lilly and Company, LILLY CORPORATE CENTER, INDIANAPOLIS 46285, IN, USA, United States of America ~72: ALLEN, David Paul;DESAI, Dhara Pankaj;QIAN, Ken Kangyi~ 33:US ~31:63/129,157 ~32:22/12/2020

2023/05795 ~ Complete ~54:NANOMATERIALS COMPRISING A BIODEGRADABLE FEATURE ~71:BEAM THERAPEUTICS INC., 238 Main Street, United States of America ~72: CHHABRA, Milloni Balwantkumar;HAMILTON, Gregory Lawrence;PATWARDHAN, Neeraj Narendra;SAGO, Cory Dane;SHEHATA, Mina Fawzy~ 33:US ~31:63/139,731 ~32:20/01/2021

2023/05802 ~ Complete ~54:TALAZOPARIB SOFT GELATIN CAPSULE DOSAGE FORM ~71:Pfizer Inc., 66 Hudson Boulevard East, NEW YORK 10001-2192, NY, USA, United States of America ~72: CARMODY, Alan Francis;PAIRET, Lydie Claude Sylvie~ 33:US ~31:63/113,345 ~32:13/11/2020;33:US ~31:63/276,554 ~32:05/11/2021

2023/05778 ~ Complete ~54:FREEZING EQUIPMENT FOR SPERM STORAGE ~71:JIANGSU PROVINCE HOSPITAL (THE FIRST AFFILIATED HOSPITAL WITH NANJING MEDICAL UNIVERSITY), No. 300 Guangzhou Road, Gulou District, Nanjing, Jiangsu Province, 210029, People's Republic of China ~72: Faxi LIN~

2023/05783 ~ Complete ~54:LIQUID COOLING RADIATOR ~71:Huaneng Tongliao Wind Power Co. Ltd, Intersection of Qinglongshan Street and Shengli North Road, Tongliao City 028000, Inner Mongolia, CHINA (P.R.C.), People's Republic of China ~72: DAI, Yaliang;GAO, Shihe;GENG, Jinfu;SONG, Yinlong;WANG, Guokui;ZHANG, Hongxin~ 33:CN ~31:2022106145460 ~32:30/05/2022

2023/05787 ~ Complete ~54:ANTI-LOOSENESS FIXTURE BLOCK FOR CONNECTION BETWEEN WIND TURBINE ENCODER HOUSING AND COMMUNICATION CABLE ~71:Huaneng Tongliao Wind Power Co. Ltd, Intersection of Qinglongshan Street and Shengli North Road, Tongliao City 028000, Inner Mongolia, CHINA (P.R.C.), People's Republic of China ~72: Gao, Shihe;Geng, Jinfu;Liu, Yan;Xue, Xiangtian;Yang, Chuanlong;Zhang, Hongxin~ 33:CN ~31:2022106018249 ~32:30/05/2022

2023/05794 ~ Complete ~54:PROCESS FOR RECOVERING PRECIOUS METAL FROM AN AQUEOUS SOLUTION ~71:CLEAN MINING PTY LTD, Suite 3, East Side Cove Building, 10 East Brook Terrace, Australia ~72: DAI, Xianwen~ 33:AU ~31:2020903947 ~32:30/10/2020;33:AU ~31:2020904475 ~32:03/12/2020;33:AU ~31:2020904771 ~32:21/12/2020

2023/05816 ~ Complete ~54:NOVEL COMPOSITIONS WITH TISSUE-SPECIFIC TARGETING MOTIFS AND COMPOSITIONS CONTAINING SAME ~71:The Trustees of the University of Pennsylvania, 3600 Civic Center Blvd, 9th Floor, PHILADELPHIA 19104, PA, USA, United States of America ~72: SIMS, Joshua Joyner;WILSON, James M.;YUAN, Yuan~ 33:US ~31:63/119,863 ~32:01/12/2020

2023/05819 ~ Complete ~54:TUNNEL FIRE-FIGHTING WATER SUPPLYING SYSTEM ~71:CHINA RAILWAY SIXTH GROUP CO., LTD., No.2 Wanshou Road, Haidian District, Beijing 100036, People's Republic of China;CHINA RAILWAY SIXTH GROUP ELECTRIFYING AND POWER ENGINEERING CO., LTD., No.55, Area 2, No.2 Wanshou Road, Haidian District, Beijing 100089, People's Republic of China ~72: CHAO GAO;CHAOZHI WANG;JIN SUN;LIANG SU;MINGYUAN LI;SHUANG CHEN;SHUNFA LIANG;YUAN YAO;ZHIAN ZHANG;ZHIQIANG XIE~ 33:CN ~31:202211127433.4 ~32:16/09/2022

2023/05860 ~ Provisional ~54:IMAGING SYSTEM CATH LAB (PAED AND ADULT) ~71:Zanele Ishmael, 136 Block I Letlhabile, South Africa ~72: Abram Molefe;Zanele Ishmael Kuzwayo~

2023/05777 ~ Complete ~54:METHOD FOR MAKING CANTONESE GINGER VINEGAR EGG ~71:ZHONGKAI UNIVERSITY OF AGRICULTURE AND ENGINEERING, No.24, Dongsha Street, Haizhu District, Guangzhou, Guangdong, 510225, People's Republic of China ~72: BAI, Weidong;DONG, Hao;JIANG, Hao;LI, Yanxin;QIAN, Min;ZENG, Xiaofang;ZHAO, Wenhong~

2023/05781 ~ Complete ~54:CONNECTOR DEVICE APPLIED FOR NARROW SPACE ~71:Huaneng Tongliao Wind Power Co. Ltd, Intersection of Qinglongshan Street and Shengli North Road, Tongliao City 028000, Inner Mongolia, CHINA (P.R.C.), People's Republic of China ~72: ZHANG, Guohui~ 33:CN ~31:2022106124089 ~32:31/05/2022

2023/05785 ~ Complete ~54:FIXED CLAMPING STRUCTURE FOR LEAD WIRE IN T-SHAPED POWER TRANSMISSION TOWER ~71:Huaneng Tongliao Wind Power Co. Ltd, Intersection of Qinglongshan Street and Shengli North Road, Tongliao City 028000, Inner Mongolia, CHINA (P.R.C.), People's Republic of China ~72: Duan, Weimin;Fan, Dameng;Huo, Dongxu;Li, Yiming;Liu, Guanglei;Pan, Zewei;Yin, Xudong~ 33:CN ~31:2022105978725 ~32:30/05/2022

2023/05792 ~ Complete ~54:HERBICIDAL COMPOSITION, PREPARATION AND ITS APPLICATION ~71:NANTONG JIANGSHAN AGROCHEMICAL & CHEMICALS CO., LTD., No.998, Jiangshan Road,, Economic and Technological Development Zone, Nantong City, Jiangsu Province, 226000, People's Republic of China ~72: DONG, Lei;DU, Hui;FAN, Meiyun;REN, Xinfeng;XU, Yingrong;ZHU, Yanmei~ 33:CN ~31:202110304261.2 ~32:22/03/2021

2023/05799 ~ Complete ~54:SYSTEM AND METHOD OF DIRECTING THREE DIMENSIONAL SCANNING ~71:CATERPILLAR INC., 100 NE Adams Street, United States of America ~72: HARTMAN, Mark, E.;MIANZO, Lawrence, A.;OBLAK, Tod, A.;RAM, Shastri;SEKHARAN, Sri;STRINGER, Jeff, T.~ 33:US ~31:17/112,932 ~32:04/12/2020

2023/05808 ~ Complete ~54:BAKED AND PAR-BAKED PRODUCTS WITH THERMOSTABLE AMG VARIANTS FROM PENICILLIUM ~71:Novozymes A/S, Krogshoejvej 36, BAGSVAERD 2880, DENMARK, Denmark ~72: ÖZCÖMLEKCI, Esra;ANDERSEN, Carsten;LUNDKVIST, Henrik;SINIK, Hasim;VARMING, Camilla~ 33:DK ~31:PA 2020 01238 ~32:02/11/2020;33:DK ~31:PA 2021 00367 ~32:12/04/2021

2023/05770 ~ Complete ~54:LONG-ACTING COMBINED AGENT FOR EXPELLING AND KILLING ECTOPARASITES IN LIVESTOCK AND POULTRY ~71:Institute of Veterinary Medicine, Xinjiang Academy of Animal Husbandry Sciences (Animal Clinical Medicine Research Center, Xinjiang Academy of Animal Husbandry Sciences), No. 726, Dongrong Street, Xinshi District, Urumqi City, Xinjiang Uygur Autonomous Region, 830000, People's Republic of China ~72: Guli CHEN;Huiling GUO;Junwei WANG;Li ZHAO;Nu’er KU’ERMANALI;Shuai LIU;Wanli BAN;Wenxin ZHENG;Zhiqiang LIU~

2023/05773 ~ Complete ~54:ENERGY-CONSERVATION WALL PANEL FOR GREEN BUILDING ~71:China Construction Fifth Engineering Bureau (Yantai) Construction Engineering Co., Ltd., 10th Floor, Building B, Longtai Building, No. 180, Yingchun Street, Laishan District, Yantai City, Shandong Province, 264000, People's Republic of China ~72: HUANG, Xin;JIANG, Xinxin;LU, Hairong;WANG, Chun;YU, Jianjun~ 33:CN ~31:202222398218X ~32:09/09/2022

2023/05786 ~ Complete ~54:DUST-PROOF AXIAL FLOW FAN GUIDING AND COOLING DEVICE ~71:Huaneng Tongliao Wind Power Co. Ltd, Intersection of Qinglongshan Street and Shengli North Road, Tongliao City 028000, Inner Mongolia, CHINA (P.R.C.), People's Republic of China ~72: Fan, Dameng;Han, Fu;Liu, Guanglei;Liu, Yingang;Tang, Xiaolei;Wang, Chong;Yin, Xudong~ 33:CN ~31:2022105981624 ~32:30/05/2022

2023/05796 ~ Complete ~54:NANOMATERIALS ~71:BEAM THERAPEUTICS INC., 238 Main Street, United States of America ~72: HAMILTON, Gregory Lawrence;SAGO, Cory Dane~ 33:US ~31:63/139,734 ~32:20/01/2021

2023/05813 ~ Complete ~54:CONJUGATED ZEARALENONE TO PROTECT AGAINST MYCOTOXICOSIS ~71:Intervet International B.V., Wim de Körverstraat 35, BOXMEER 5831 AN, THE NETHERLANDS,

Netherlands ~72: KOOIJMAN, Sietske;SEGERS, Ruud Philip Antoon Maria;WITVLIET, Maarten Hendrik~ 33:EP ~31:20216328.3 ~32:22/12/2020

2023/05789 ~ Complete ~54:TUBULAR MEMBRANE HEAT EXCHANGER ~71:BALTIMORE AIRCOIL COMPANY, INC., 7600 Dorsey Run Road, Jessup, United States of America ~72: EGOLF, Kevin Ellsworth;LITWACK, Ellie M.;ROUSSELET, Yohann Lilian~ 33:US ~31:63/121,063 ~32:03/12/2020

2023/05804 ~ Complete ~54:BATTERY FIRE PREVENTION AND DIAGNOSIS SYSTEM ~71:Hyosung Heavy Industries Corporation, 119, Mapo-daero, Mapo-gu, SEOUL 04144, REPUBLIC OF KOREA, Republic of Korea ~72: JO, Hyang Eun;JUNG, Jae Ryong;SEO, Hwang Dong~ 33:KR ~31:10-2021-0094145 ~32:19/07/2021

2023/05815 ~ Complete ~54:MATERIALS AND METHODS FOR MONITORING CANCER BY ADMINISTERING AN ANTI-MCL1 ANTIBODY ~71:Amgen Inc., One Amgen Center Drive, THOUSAND OAKS 91320-1799, CA, USA, United States of America ~72: BOYLE, Michael C.;CHAN, Brian;KIELCZEWSKA, Agnieszka~ 33:US ~31:63/143,682 ~32:29/01/2021

. - APPLIED ON 2023/05/31 -

2023/05823 ~ Provisional ~54:MMIKHOI ALL LEGAL MEDIATION COVER .BENEFITS ~71:arthur gert nieklaassen, 09 endeman street, South Africa;arthur gert nieklaassen, 09 endeman street, South Africa;arthur gert nieklaassen, 09 endeman street, South Africa ~72: arthur gert nieklaassen~ 33:ZA ~31:23/05/31 ~32:01/05/2023

2023/05826 ~ Complete ~54:UNFILLED POLYPROPYLENE COMPOSITION AND A PROCESS FOR ITS PREPARATION ~71:MAHINDRA AND MAHINDRA LIMITED, Mahindra & Mahindra Limited, Mahindra Research Valley, Mahindra World City, Plot No:41/1, Anjur P.O., Chengalpattu, Kanchipuram, India ~72: DEOLI; Manish Kumar;GOVINDARAJ; Karthik;KAKANI;Phani;KOCH; Gregory;KV BALAJI~ 33:IN ~31:202241031268 ~32:31/05/2022

2023/05832 ~ Complete ~54:CLAMP AND EQUIPMENT FOR MEASURING TOOTH SURFACE ROUGHNESS OF DISC-TYPE SPIRAL BEVEL GEAR ~71:ZRIME Gearing Technology Co., Ltd., No. 149, Science Avenue, High-tech Industrial Development Zone, Zhengzhou, Henan Province, 450052, People's Republic of China ~72: Hou Nai;Huang Hongtao;Wang Feng;Xu Wenbo;Yang Shufeng;Zhu Peng~ 33:CN ~31:2022217338405 ~32:07/07/2022

2023/05844 ~ Complete ~54:CONGESTION CONTROL FOR SIDELINK TRANSMISSIONS ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), 164 83, Sweden ~72: ASHRAF, Shehzad Ali;BLASCO SERRANO, Ricardo;KIM, Jeong Hun;LEON CALVO, Jose Angel~ 33:US ~31:63/138,628 ~32:18/01/2021

2023/05825 ~ Complete ~54:A LIBRARY SHELF WITH FIRE PEVENTION AND FIRE EXTINGUISHING FUNCTIONS ~71:Zhejiang International Maritime College, No. 268, Haitian Avenue, Lincheng New District, Zhoushan city, Zhejiang province, 316021, People's Republic of China ~72: Qin ZHOU~

2023/05836 ~ Complete ~54:METHOD FOR RESISTING BIAS WITH TUNNEL SEMI-CROSS SECTION ADVANCED PIPE SHED AND ARCH FRAME SELF-FEEDING LONG BOLT SURROUNDING LOCK FOOT ~71:CHINA RAILWAY 18 BUREAU GROUP CO. LTD., Shuanggang Town, Jinnan District, Tianjin, 300350, People's Republic of China ~72: LIAO, Jianwei;LIN, Ziyuan;LIU, Lei;Ll, Guoyong;QING, Peng;ZHANG, Xiangping~

2023/05852 ~ Complete ~54:NON-WOOD PULP HAVING HIGH BRIGHTNESS AND LOW DEBRIS ~71:Kimberly-Clark Worldwide, Inc., 2300 Winchester Road, NEENAH 54956, WI, USA, United States of America ~72: SHANNON, Thomas G.;WEI, Ning;YU, Zhiying~ 33:US ~31:63/110,600 ~32:06/11/2020

2023/05830 ~ Complete ~54:EXPLOSIVE COMPOSITION ~71:ENAEX AFRICA (PTY) LTD, First Floor, Atholl Towers, 129 Patricia Road, South Africa ~72: HUGO, Charlene;KRUGER, Francois;YOUNG, Cyril, Austin~ 33:ZA ~31:2022/13792 ~32:21/12/2022

2023/05835 ~ Complete ~54:CLIMBING ROBOT AND METHOD FOR DETECTING FOREIGN OBJECT INTRUSION IN METRO TUNNEL ~71:2ND ENGINEERING CO., LTD. OF CHINA RAILWAY 12TH BUREAU GROUP, #19, South Renmin Road, Xiaodian District, Taiyuan, Shanxi, 030032,, People's Republic of China;CHINA RAILWAY 12TH BUREAU GROUP CO., LTD, #130, Xikuang Street, Taiyuan, Shanxi, 030024, People's Republic of China;SHANXI BUILDING COMPONENT CO., LTD. OF CHINA RAILWAY 12TH BUREAU GROUP, Room 328, #8, Dongda Street, Taiyuan Tanghuai Park, Shanxi Transformation and Comprehensive Reform Demonstration Zone, 030032, People's Republic of China ~72: GUO, Min;GUO, Xiangnan;HU, Jianguo;JIA, Youxiu;JIN, Sujing;LIAO, Yu;LOU, Huiyuan;LU, Xiaopeng;MENG, Yanzhe;SONG, Chenglin;SUN, Hui;SUN, Xueshuang;TIAN, Wenmao;WANG, Kexin;WEI, Jun;YANG, Hangyu;ZHANG, Huaqing;ZHAO, Xiangping~ 33:CN ~31:202211593281.7 ~32:13/12/2022

2023/06382 ~ Complete ~54:NOVEL 6-6 BICYCLIC AROMATIC RING SUBSTITUTED NUCLEOSIDE ANALOGUES FOR USE AS PRMT5 INHIBITORS ~71:Janssen Pharmaceutica NV, Turnhoutseweg 30, BEERSE B-2340, BELGIUM, Belgium ~72: BEKE, Lijs;BOECKX, An;BREHMER, Dirk;DIELS, Gaston Stanislas Marcella;GILISSEN, Ronaldus Arnodus Hendrika Joseph;LAWSON, Edward Charles;MEERPOEL, Lieven;PANDE, Vineet;PARADE, Marcus Cornelis Bernardus Catharina;SCHEPENS, Wim Bert Griet;SUN, Weimei;THURING, Johannes Wilhelmus John F.;VIELLEVOYE, Marcel;WU, Tongfei~ 33:US ~31:62/209,941 ~32:26/08/2015;33:EP ~31:15184011.3 ~32:07/09/2015;33:US ~31:62/306,233 ~32:10/03/2016

2023/05839 ~ Complete ~54:COMPOSITIONS OF NANOPARTICLES FOR TREATMENT OF CANCER ~71:NANOBIOTIX, 60 RUE DE WATTIGNIES, 75012 PARIS, FRANCE, France ~72: BORGHI, Elsa;JAMESON, Katherine~ 33:EP ~31:20306326.8 ~32:05/11/2020

2023/05841 ~ Complete ~54:PARTHENOCARPIC WATERMELON PLANTS ~71:NUNHEMS B.V., NAPOLEONSWEG 152, 6083 AB NUNHEM, NETHERLANDS, Netherlands ~72: HU, Courtney;MAZAHERI, Mona;PUGLISI, Daniel;SIRIZZOTTI, Alberto~ 33:EP ~31:20206517.3 ~32:09/11/2020;33:US ~31:63/111,941 ~32:10/11/2020;33:US ~31:63/117,791 ~32:24/11/2020

2023/05849 ~ Complete ~54:POLYPEPTIDES AND USES THEREOF ~71:MedImmune Limited, 1 Francis Crick Avenue, Cambridge Biomedical Campus, CAMBRIDGE CB2 0AA, UNITED KINGDOM, United Kingdom ~72: BEDNAREK, Maria Aleksandra;GENAPATHY, Sivaneswary~ 33:US ~31:63/125,996 ~32:16/12/2020

2023/05858 ~ Complete ~54:AEROSOL-GENERATING COMPONENT ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: FALLON, Gary;HEPWORTH, Richard;HODGSON, Matthew~ 33:GB ~31:2018964.3 ~32:01/12/2020;33:GB ~31:2108812.5 ~32:18/06/2021

2023/05843 ~ Complete ~54:COATED COMPOSITIONS OF BIOLOGICALLY ACTIVE INGREDIENTS FOR ORAL ADMINISTRATION TO RUMINANTS ~71:EVONIK OPERATIONS GMBH, RELLINGHAUSER STRASSE 1-11, 45128 ESSEN, GERMANY, Germany ~72: BORCHERS, Georg;GOTTSTEIN, Thomas;HEIMBECK, Winfried;JACKSON, Barry;KÖRFER, Martin (Deceased);PARYS, Claudia;RABE, Christian~ 33:EP ~31:20206358.2 ~32:09/11/2020

2023/05847 ~ Complete ~54:COMPOSITION FOR TREATING VASCULAR DISEASE, COMPOSITION FOR PREVENTING VASCULAR DISEASE, COMPOSITION FOR TREATING HYPERTENSION, AND COMPOSITION FOR PREVENTING HYPERTENSION ~71:INABATA KORYO CO.,LTD., 3-5-20 Tagawa, Yodogawa-ku, Osaka-shi, Osaka 5320027, Japan;KINKI UNIVERSITY, 3-4-1, Kowakae, Higashiosaka-shi, Osaka 5778502,

Japan;SUNSHO PHARMACEUTICAL CO., LTD., 1468 Atsuhara Fuji-shi, Shizuoka, 4190201, Japan ~72: CHIHIRO KISHI;KAZUYA YAMADA;KOHEI IWAMOTO;NOBUHIRO ZAIMA;SHINICHI MATSUMURA;SHOHEI MAKINO;TAKANORI KOBAYASHI;YUKI TAKEMOTO;YURI YOSHIOKA~ 33:US ~31:63/110,506 ~32:06/11/2020

2023/05855 ~ Complete ~54:DEVICE AND METHOD FOR PRE-COOLING A STREAM OF GAS ~71:ENGIE, 1 Place Samuel de Champlain, COURBEVOIE 92400, FRANCE, France ~72: HAMZA, Filali;HUBERT, Audrey;JALIA, Florian~ 33:FR ~31:2013265 ~32:15/12/2020

2023/05857 ~ Complete ~54:SOLID FORMS OF A CDK2 INHIBITOR ~71:Pfizer Inc., 66 Hudson Boulevard East, NEW YORK 10001-2192, NY, USA, United States of America ~72: CAO, Fengjuan;DEBOYACE, Kevin Francis;HEBERLEIN, Michael~ 33:US ~31:63/130,530 ~32:24/12/2020

2023/05831 ~ Complete ~54:EMERGENCY RESPONSE PROCESSING METHOD FOR SMART CITY DRAIN FLOODED FIELDS ~71:Zhejiang International Marine Vocational and Technical College, 268 Haitian Road, Lincheng New District, Zhoushan City, Zhejiang Province, 316021, People's Republic of China ~72: Du Lie;Li Ziqiang;Wu Najiong~

2023/05853 ~ Complete ~54:HIGH BRIGHTNESS NON-WOOD PULP ~71:Kimberly-Clark Worldwide, Inc., 2300 Winchester Rd., NEENAH 54956, WI, USA, United States of America ~72: ACKERLY, Samantha C.;PAULSON, David J.;SHANNON, Thomas G.;WEI, Ning;YU, Zhiying~ 33:US ~31:63/110,600 ~32:06/11/2020

2023/05822 ~ Provisional ~54:NETWORK CONNECTIVITY CONTINUITY ~71:Sbusiso Percival Dlamini, Manzane Area, South Africa ~72: Sbusiso Percival Dlamini~

2023/05824 ~ Complete ~54:MAPPING INSTRUMENT BOX FOR OUTDOOR MAPPING ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467036, People's Republic of China ~72: DING, Leixiang;FAN, Dingwen;HONG, Zhiqiang;LI, Feixiang;LI, Leilei;LI, Taifeng;LI, Yunshi;LIANG, Zhansheng~ 33:CN ~31:2023200817182 ~32:12/01/2023

2023/05842 ~ Complete ~54:APPARATUS FOR PRODUCTION AND INTERMEDIATE STORAGE OF BIOGAS ~71:NOA CLIMATE GMBH, LIMASTRASSE 22, 14163 BERLIN, GERMANY, Germany ~72: DE WET, Francois;STORBECK, Kenny~

2023/05848 ~ Complete ~54:POSITIONING METHOD, POSITIONING APPARATUS AND ELECTRONIC DEVICE FOR HUMAN HEAD AND SHOULDERS AREA ~71:ObjectEye (Beijing) Technology Co., Ltd., Room A-6193, Building 3, no. 20 yongan Road, Shilong Economic Development Zone, Mentougou District, Beijing, 100190, People's Republic of China ~72: Chaoyang ZHAO;Jinqiao WANG;Xu ZHAO~ 33:CN ~31:202011432151.6 ~32:09/12/2020

2023/05829 ~ Complete ~54:HINGED CLOSURE FOR AEROSOL CONTAINER ~71:ANTONIO MANUEL DE VEIGA MARTINS, 28 Highlands Road, South Africa ~72: MARTINS, Antonio Manuel De Veiga~

2023/05833 ~ Complete ~54:HETEROCYCLIC COMPOUNDS AS RET KINASE INHIBITORS ~71:Cancer Research Technology Limited, Angel Building, 407 St. John Street, LONDON EC1V 4AD, GREATER LONDON, UNITED KINGDOM, United Kingdom ~72: FORDYCE, Euan Alexander Fraser;HYND, George;JORDAN, Allan;NEWTON, Rebecca;PAOLETTA, Silvia;SUTTON, Jonathan Mark;WASZKOWYCZ, Bohdan~ 33:GB ~31:1606631.8 ~32:15/04/2016;33:GB ~31:1619277.5 ~32:14/11/2016

2023/05851 ~ Complete ~54:DISPERSIBLE NON-WOOD PULP ~71:Kimberly-Clark Worldwide, Inc., 2300 Winchester Rd., NEENAH 54956, WI, USA, United States of America ~72: ACKERLY, Samantha C.;PAULSON, David J.;SHANNON, Thomas G.;UNDERHILL, Richard L.;YU, Zhiying~ 33:US ~31:63/110,597 ~32:06/11/2020

2023/05828 ~ Complete ~54:VIDEO CODING USING A CODED PICTURE BUFFER ~71:FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V., HANSASTRAßE 27C, 80686 MÜNCHEN, GERMANY, Germany ~72: BROSS, Benjamin;HELLGE, Cornelius;SÁNCHEZ DE LA FUENTE, Yago;SCHIERL, Thomas;SKUPIN, Robert;WIEGAND, Thomas~ 33:US ~31:17/965,591 ~32:13/10/2022

2023/05838 ~ Complete ~54:MODIFIED PARAPOXVIRUS HAVING INCREASED IMMUNOGENICITY ~71:PRIME VECTOR TECHNOLOGIES GMBH, Herrenbergerstr. 24, Germany ~72: AMANN, Ralf;SALOMON, Ferdinand~ 33:EP ~31:20216201.2 ~32:21/12/2020

2023/05845 ~ Complete ~54:HETEROARYL CARBOXAMIDE COMPOUND ~71:ASTELLAS PHARMA INC., 5-1, Nihonbashi-Honcho 2-chome, Chuo-ku, Tokyo, 1038411, Japan;KOTOBUKI PHARMACEUTICAL CO., LTD., 6351, Oaza-Sakaki Sakaki-machi Hanishina-gun, Nagano, 3890697, Japan ~72: AKIHIKO NAKAMURA;AKIO KAMIKAWA;HIDEYUKI WATANABE;HIROSHI TOMIYAMA;KEIICHIRO OKUYAMA;KOZO MIYASAKA;OSAMU IKEDA;TAKASHI KAMIKUBO;TAKUYA WASHIO;YOHEI SEKI;YOSHINORI IWAI~ 33:JP ~31:2020-197899 ~32:30/11/2020

2023/05859 ~ Complete ~54:HIGH POROSITY NON-WOOD PULP ~71:Kimberly-Clark Worldwide, Inc., 2300 Winchester Road, NEENAH 54956, WI, USA, United States of America ~72: SHANNON, Thomas G.;YU, Zhiying~ 33:US ~31:63/110,593 ~32:06/11/2020

2023/05821 ~ Provisional ~54:HOMEVISIT MD IDEA AND BUSINESS MODEL ~71:Bradley Anthony Fourie, unit 19, 66 on High, Nortons Home Estate, Benoni, 1514, South Africa ~72: Bradley Anthony Fourie~

2023/05846 ~ Complete ~54:MACROCYCLES AND THEIR USE ~71:BLOSSOMHILL THERAPEUTICS, INC., 3525 John Hopkins Court, Suite 100 San Diego, California 92121, United States of America ~72: EUGENE RUI;EVAN W ROGERS;JINGRONG J CUI~ 33:US ~31:63/126,722 ~32:17/12/2020;33:US ~31:63/279,850 ~32:16/11/2021;33:US ~31:63/284,789 ~32:01/12/2021;33:US ~31:63/289,014 ~32:13/12/2021

2023/05850 ~ Complete ~54:BATTERY FIRE PREVENTION AND DIAGNOSIS SYSTEM ~71:Hyosung Heavy Industries Corporation, 119, Mapo-daero, Mapo-gu, SEOUL 04144, REPUBLIC OF KOREA, Republic of Korea ~72: JO, Hyang Eun;JUNG, Jae Ryong;SEO, Hwang Dong~ 33:KR ~31:10-2021-0094146 ~32:19/07/2021

2023/05856 ~ Complete ~54:NON-INVASIVE METHOD OF DETERMINING PROPERTIES OF A CHICKEN EGG AND/OR PROPERTIES OF A CHICKEN EMBRYO INSIDE THE EGG USING NEAR IR SPECTROSCOPY, RESPECTIVE SYSTEM AND USES THEREOF ~71:Agri Advanced Technologies GmbH, Hogenbögen 1, VISBEK 49429, GERMANY, Germany ~72: HURLIN, Jörg~ 33:EP ~31:20215032.2 ~32:17/12/2020

2023/05840 ~ Complete ~54:METHOD FOR PREPARING CRYSTALLINE PARTICLES OF 1-(3-CYANO-1-ISOPROPYL-INDOLE-5-YL)PYRAZOLE-4-CARBOXYLIC ACID, AND PHARMACEUTICAL COMPOSITION COMPRISING SAME ~71:LG CHEM, LTD., 128, YEOUI-DAERO, YEONGDEUNGPO-GU, SEOUL 07336, REPUBLIC OF KOREA, Republic of Korea ~72: HAM, Jinok;JEONG, Hui, Rak;LEE, Seok, Ju;PARK, Ah, Byeol;SHIN, Doosup~ 33:KR ~31:10-2020-0145750 ~32:04/11/2020

2023/05854 ~ Complete ~54:TREM2 AGONIST BIOMARKERS AND METHODS OF USE THEREOF ~71:Amgen Inc., One Amgen Center Drive, THOUSAND OAKS 91320-1799, CA, USA, United States of America ~72:

ELLWANGER, Daniel C.;FOLTZ, Ian N.;HASSON, Samuel A.~ 33:US ~31:63/120,986 ~32:03/12/2020;33:US ~31:63/262,943 ~32:22/10/2021

2023/05827 ~ Complete ~54:PADLOCK WITH REPLACEABLE LOCK HOOP ~71:ABUS AUGUST BREMICKER SÖHNE KG, Altenhofer Weg 25 Wetter-Volmarstein, 58300, Germany ~72: WAI KUEN FAN~ 33:DE ~31:102022119572.4 ~32:04/08/2022

2023/05834 ~ Complete ~54:NOVEL 6-6 BICYCLIC AROMATIC RING SUBSTITUTED NUCLEOSIDE ANALOGUES FOR USE AS PRMT5 INHIBITORS ~71:Janssen Pharmaceutica NV, Turnhoutseweg 30, BEERSE B-2340, BELGIUM, Belgium ~72: BEKE, Lijs;BOECKX, An;BREHMER, Dirk;DIELS, Gaston Stanislas Marcella;GILISSEN, Ronaldus Arnodus Hendrika Joseph;LAWSON, Edward Charles;MEERPOEL, Lieven;PANDE, Vineet;PARADE, Marcus Cornelis Bernardus Catharina;SCHEPENS, Wim Bert Griet;SUN, Weimei;THURING, Johannes Wilhelmus John F.;VIELLEVOYE, Marcel;WU, Tongfei~ 33:US ~31:62/209,941 ~32:26/08/2015;33:EP ~31:15184011.3 ~32:07/09/2015;33:US ~31:62/306,233 ~32:10/03/2016

. - APPLIED ON 2023/06/01 -

2023/05869 ~ Complete ~54:PREPARATION METHOD OF SOYBEAN PROTEIN COMPOSITE GELLED FOOD AND PRODUCT THEREOF ~71:Anqing Normal University, NO.128 Linghu South Road, Anqing City, Anhui Province, People's Republic of China ~72: CHEN Zijie;LI Qishen;LI Wenjuan;LIU Xiangnan;WANG Chao;WANG Yang~ 33:CN ~31:2022106281130 ~32:02/06/2022

2023/05876 ~ Complete ~54:TASK OFFLOADING METHOD AND SYSTEM FOR SATELLITE INTERNET, AND READABLE STORAGE MEDIUM ~71:SUN YAT-SEN UNIVERSITY, No. 135, Xingang Xi Road, Haizhu District, Guangzhou, Guangdong Province, 510275, People's Republic of China ~72: HUANG, Ao;LIN, Tianhao;LUO, Zhiyong~ 33:CN ~31:202211115078.9 ~32:14/09/2022

2023/05881 ~ Complete ~54:PARKING-BRAKING ASSEMBLY AND METHOD ~71:BREMBO S.P.A., Via Brembo, 25, Italy ~72: CIOTTI, Alessandro;MILANESI, Andrea;SALA, Paolo;SZEWCZYK, Beniamin~ 33:IT ~31:102020000027071 ~32:12/11/2020

2023/05885 ~ Complete ~54:REAGENTS, METHODS, AND SYSTEMS FOR DETECTING THERAPEUTIC AGENTS TO MONITOR ADHERENCE TO NUCLEOSIDE REVERSE TRANSCRIPTASE INHIBITOR METABOLITES ~71:OraSure Technologies, Inc., 220 East First Street, BETHLEHEM 18015, PA, USA, United States of America ~72: DAUGHTRIDGE, Giffin;HWA-OK, Kim;KADAM, Asharani Dhondiram;KARDOS, Keith;RAJUR, Sharanappa Basappa~ 33:US ~31:63/127,706 ~32:18/12/2020

2023/05864 ~ Provisional ~54:DIGITALIZATION OF ROLLING STOCK COUPLERS MECHANISM ~71:Sathesh Prahalad Ramlal, 2339 Karibbiese Avenue Rand Park Ridge, South Africa ~72: Sathesh Prahalad Ramlal~

2023/05867 ~ Complete ~54:METHOD FOR DETERMINING DROUGHT WARNING WATER LEVEL OF CONTROLLED WATER SUPPLY LAKE ~71:China Institute of Water Resources and Hydropower Research, 1 Yuyuantan South Road, Haidian District, Beijing, People's Republic of China ~72: JIANG Yunzhong;WANG Kun;WEI Ruishen;YAN Denghua;YAN Ziqi;ZHOU Zuhao~ 33:CN ~31:2022106779019 ~32:15/06/2022

2023/05880 ~ Complete ~54:FLEXIBLE ALUMINUM CONDUCTIVE WIRE BODY, CONDUCTIVE PIECE, AND CAR ~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 ~31:202022990990.1 ~32:11/12/2020

2023/05886 ~ Complete ~54:SYSTEM AND METHOD FOR LASER IGNITION OF FUEL IN A COAL-FIRED BURNER ~71:General Electric Company, 1 River Road, SCHENECTADY 12345, NY, USA, United States of America ~72: GUBBA, Sreenivasa Rao;LAKSHMI NARAYANAN, Kamesh;MAHESHWARI, Ankur;RISTIC, Dragisa;SRIDHARAN, Arun Kumar;SUBRAMANIYAN, Moorthi;VARTAK, Sameer Dinkar~ 33:US ~31:17/113,275 ~32:07/12/2020

2023/05865 ~ Provisional ~54:DIGITALIZATION OF ROLLING STOCK COUPLERS MECHANISM ~71:Sathesh Prahalad Ramlal, 2339 Karibbiese Avenue Rand Park Ridge, South Africa ~72: Sathesh Prahalad Ramlal~

2023/05872 ~ Complete ~54:APPARATUS FOR SAFELY ELIMINATING INFORMATION ON THERMO-SENSITIVE PAPER BY USING HIGH TEMPERATURE ~71:GUIZHOU MINZU UNIVERSITY, South Section of Huaxi Avenue, Huaxi District, Guiyang City, Guizhou Province 550025, People's Republic of China ~72: JIAYIN XIE;JUN CHENG;MINGMING YI;TIANLAN CHEN;TIANPENG HE;YOUYOU LIANG~

2023/05862 ~ Provisional ~54:VACCINE CONSTRUCTS COMPRISING TUBERCULOSIS ANTIGENS ~71:THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY, Building 170, Third Floor Main Quad, P.O. Box 20386, Stanford, California, 94305-2038, United States of America;UNIVERSITY OF CAPE TOWN, Bremner Building Lovers' Walk Rondebosch, Cape Town, 7701, South Africa;UNIVERSITY OF THE WITWATERSRAND, JOHANNESBURG, 1 Jan Smuts Avenue, Johannesburg, 2050, South Africa ~72: ABDULLAH ELY;GERLINDE OBERMOSER;HUANG HUANG;KRISTIE BLOOM;MARK M DAVIS;MUNYARADZI N MUSVOSVI;PATRICK ARBUTHNOT;THOMAS J SCRIBA~

2023/05873 ~ Complete ~54:RESOURCE SCHEDULING METHOD AND SYSTEM FOR SATELLITE ELASTIC INTERNET, COMPUTER DEVICE, AND MEDIUM ~71:SUN YAT-SEN UNIVERSITY, No. 135, Xingang Xi Road, Haizhu District, Guangzhou, Guangdong Province, 510275, People's Republic of China ~72: HUANG, Ao;LIN, Tianhao;LUO, Zhiyong~ 33:CN ~31:202211125448.7 ~32:14/09/2022

2023/05878 ~ Complete ~54:METHOD FOR PRODUCING SULFONE DERIVATIVE AS HERBICIDE ~71:KUMIAI CHEMICAL INDUSTRY CO., LTD., 4-26, Ikenohata 1-chome Taito-ku, Tokyo, 1108782, Japan ~72: SHINKI TANI~ 33:JP ~31:2021-038948 ~32:11/03/2021

2023/05866 ~ Complete ~54:NECTARINE PLANTING METHOD WITH HIGH QUALITY, HIGH YIELD AND LONG LEAF VIEWING PERIOD ~71:Institute of Horticulture, Sichuan Academy of Agricultural Sciences, No.20 Jingjusi Road, Chengdu City, Sichuan Province, People's Republic of China ~72: JIANG Linjia;LI Wengui;LIU Jia;ZHANG Quanjun;ZHONG Bifeng~

2023/05868 ~ Complete ~54:MULTIFUNCTIONAL HAEMOSTATIC TRAINING PLATFORM ~71:ARMY MEDICAL UNIVERSITY, PEOPLE'S LIBERATION ARMY, PRC, No. 30, Gaotanyan Main Street, Shapingba District, Chongqing, 400038, People's Republic of China ~72: CHEN, Can;CHEN, Lin;DU, Wenqiong;JIA, Yijun;JIANG, Renqing;MA, Yunfei;YANG, Haoyang;ZHONG, Xin;ZONG, Zhaowen~ 33:CN ~31:2023104566864 ~32:25/04/2023

2023/05883 ~ Complete ~54:GALECTIN-3 INHIBITING 2-HYDROXYCYCLOALKANE-1 -CARBAMOYL DERIVATIVES ~71:Idorsia Pharmaceuticals Ltd, Hegenheimermattweg 91, ALLSCHWIL 4123, SWITZERLAND, Switzerland ~72: BOLLI, Martin;GATFIELD, John;GRISOSTOMI, Corinna;REMEN, Lubos;SAGER, Christoph;ZUMBRUNN, Cornelia~ 33:IB ~31:2020/080681 ~32:02/11/2020;33:IB ~31:2021/053133 ~32:10/02/2021

2023/05888 ~ Complete ~54:NOVEL THERAPEUTIC COMPOSITION BASED ON ESSENTIAL OILS AT LOW DOSES ~71:BEZZARGA, Mounir, 20 Badi' al-Zaman al-Hamadani Street, Hammam-Lif, 2050, Tunisia ~72: BEZZARGA, Mounir~ 33:TN ~31:TN2020/0211 ~32:03/11/2020

2023/05889 ~ Provisional ~54:BIOMETRIC EMERGENCY IDENTIFICATION SOLUTION FOR FIRST RESPONDERS ~71:RUKASH ADRUTH KUMAR I/D 7010295176087, 18 ASHLEY ROAD WESTRIDING HILLCREST, DURBAN,, South Africa ~72: RUKASH ADRUTH KUMAR I/D 7010295176087~

2023/05870 ~ Complete ~54:A METHOD FOR ASSESSING PEDIATRIC ORAL HEALTH AND SYSTEM THEREOF ~71:Deepak Viswanath, Emerald-604, 6th Floor, 2nd Block, Devalaya Pristine Apts, Off Hotel Abhinav Road, Near Nikhil Homes, Hoshangabad Road, Bhopal, Madhya Pradesh, 462026, India ~72: Ankur Singh Rajpoot;Deepak Viswanath;Dipti Bhagat;Jayasimha V.L;Kiran Dodani;Nidhi Choudaha;Preeti Rajput;Shubhrata Shrivastava~

2023/05887 ~ Complete ~54:COUPLING DEVICE, VALVE SYSTEM AND METHOD FOR ASSEMBLING A COUPLING DEVICE OR A VALVE SYSTEM ~71:Akrapovic d.d., Malo Hudo 8a, IVANCNA GORICA 1295, SLOVENIA, Slovenia ~72: PENCA, Jure;VEBER, Boštjan;ZALETELJ, Henrik~ 33:EP ~31:20211319.7 ~32:02/12/2020

2023/05871 ~ Complete ~54:PREPARATION METHOD OF ORGANIC FERTILIZER AND PREPARATION METHOD OF ORGANIC-INORGANIC BIOCHAR COMPOUND FORMULA FERTILIZER ~71:CHINA AGRICULTURAL UNIVERSITY, NO. 17, QINGHUA EAST ROAD, People's Republic of China ~72: LI, Zhifang;XIE, Yuyan;YU, Chen~

2023/05875 ~ Complete ~54:NON-MITOGENIC FGF4 VARIANT, METHOD FOR PREPARING VARIANT PROTEIN AND USE THEREOF IN THE PREPARATION OF DRUGS FOR IMMUNE-MEDIATED LIVER INJURY ~71:THE 1ST AFFILIATED HOSPITAL OF WENZHOU MEDICAL UNIVERSITY, New Campus of the 1st Hospital of Wenzhou Medical University, Nanbaixiang, Ouhai District, Wenzhou, Zhejiang, People's Republic of China ~72: CHEN, Yongping;PAN, Tongtong;SU, Lihuang~ 33:CN ~31:2023101900139 ~32:24/02/2023

2023/05863 ~ Provisional ~54:GSG INITIATOR CENTERING DEVICE ~71:Petrus Johannes Janse van Rensburg Roux, 44 Cobalt str, Hospitaalpark, South Africa ~72: Petrus Johannes Janse van Rensburg Roux~

2023/05882 ~ Complete ~54:BRAKE SHIFT CONTROL METHOD AND SYSTEM FOR ELECTRIC VEHICLE ~71:Jiangsu University, 301 Xuefu Road,Jingkou District, Zhenjiang, Jiangsu, 212013, People's Republic of China ~72: FENG Yaqi;LIU Zhikang;PAN Gongyu;XU Shen;XUE Lei;ZHANG Yujia~ 33:CN ~31:2021114435827 ~32:30/11/2021

2023/05884 ~ Complete ~54:INTERLEUKIN-18 VARIANTS AND METHODS OF USE ~71:Simcha IL-18, Inc., 157 Church St, 19th floor, NEW HAVEN 06510, CT, USA, United States of America;Yale University, Two Whitney Avenue, NEW HAVEN 06510, CT, USA, United States of America ~72: BOONE, Tom;RING, Aaron~ 33:US ~31:63/108,794 ~32:02/11/2020

2023/05861 ~ Provisional ~54:AUGMENTED REALITY INDOOR NAVIGATION SYSTEM ~71:NOKTA TECH, 583 Lephoi, South Africa ~72: Bulelani Mtsora~

2023/05874 ~ Complete ~54:INTERFERENCE SIGNAL IDENTIFICATION METHOD AND SYSTEM, COMPUTER DEVICE, AND STORAGE MEDIUM ~71:SUN YAT-SEN UNIVERSITY, No. 135, Xingang Xi Road, Haizhu District, Guangzhou, Guangdong Province, 510275, People's Republic of China ~72: FANG, Zhuangxin;LUO, Zhiyong;SHI, Honghao;WANG, Xiti~ 33:CN ~31:202210799581.4 ~32:07/07/2022

2023/05877 ~ Complete ~54:PHARMACEUTICAL COMPOSITION COMPRISING HUMAN INTERLEUKIN 2 VARIANT OR DERIVATIVE THEREOF AND USE THEREOF ~71:JIANGSU HENGRUI PHARMACEUTICALS CO., LTD., No.7 Kunlunshan Road, Economic and Technological Development Zone, Lianyungang, Jiangsu, 222047, People's Republic of China;SHANGHAI HENGRUI PHARMACEUTICAL CO., LTD., No. 279 Wenjing

Road Minhang District, Shanghai, 200245, People's Republic of China;SHANGHAI SHENGDI PHARMACEUTICAL CO., LTD, No.1288 Haike Road, Zhangjiang Town, Pudong New District, Shanghai, 201210, People's Republic of China ~72: HAO CHEN;LINMAO YE;SHUXIANG YU;YANYAN SUN;YINGFANG FAN~ 33:CN ~31:202011269123.7 ~32:13/11/2020;33:CN ~31:202110614713.7 ~32:02/06/2021

2023/05879 ~ Complete ~54:MEDIA PROCESSING METHODS AND SYSTEMS ~71:SCOTT BAKER, 5530 Kester Ave., Sherman Oaks, California, 91411, United States of America ~72: SCOTT BAKER~

. - APPLIED ON 2023/06/02 -

2023/05894 ~ Complete ~54:CONVOLUTIONAL NEURAL NETWORK ACTIVITY RECOGNITION METHOD BASED ON DECOUPLING TRAINING ~71:NANJING UNIVERSITY, No.163 Xianlin Avenue, Qixia District, Nanjing City, Jiangsu Province, People's Republic of China ~72: HU Guangwei;TENG Qi~ 33:CN ~31:2022107934577 ~32:07/07/2022

2023/05896 ~ Complete ~54:INTRAVASCULAR COATED STENT FOR PROMOTING BLOOD VESSEL WALL HEALING ~71:The First Affiliated Hospital Of University Of South China, NO.69 ChuanShanLu, Shigu, Hengyang, Hunan, People's Republic of China ~72: CHU Chun;HU Hongmin;YANG Jun;YANG Ting~

2023/05899 ~ Complete ~54:AGE-TAILORED NUTRITIONAL COMPOSITION FOR A DOG ~71:AIKO PET FOODS SA (PTY) LTD, Apartment 9, 36 Brownlow Road, South Africa ~72: REH, Christina Antonie;ZUCHE, Nora Zoe Swantje~

2023/05902 ~ Complete ~54:PROGRAMMATICALLY DETERMINING NEXT-HOP MAC ADDRESS ~71:KRATOS INTEGRAL HOLDINGS, LLC, 10680 TREENA STREET, 6TH FLOOR, SAN DIEGO, CALIFORNIA 92131, USA, United States of America ~72: BLACK, Gabriel~ 33:US ~31:63/111,487 ~32:09/11/2020

2023/05892 ~ Complete ~54:ARCHIVES ADMINISTRATION SYSTEM FOR COLLEGES AND UNIVERSITIES BASED ON A BLOCKCHAIN ~71:TANGSHAN UNIVERSITY, No. 11 University West Road, Hi-tech Zone, Tangshan, Hebei Province, People's Republic of China ~72: LIU Liwei;SONG Xiaoying;WU Jingxin~

2023/05901 ~ Complete ~54:TRACK MONITORING SYSTEM BASED ON OPTICAL SENSING ~71:HEBEI GEO UNIVERSITY, No. 136 Huai'an East Road, Shijiazhuang, Hebei, 050030, People's Republic of China ~72: LIU, Yongwei;WANG, Guangxiang;WANG, Yuan;WEN, Jihua;ZHANG, Lei;ZHENG, Yibo;ZHU, Yuehong~ 33:CN ~31:202110785147.6 ~32:12/07/2021

2023/05905 ~ Complete ~54:DEVICE AND METHOD FOR PASSIVE CARBON DIOXIDE COLLECTION WITH SUSPENDED SORBENT DISKS ~71:Arizona Board of Regents on behalf of Arizona State University, SkySong, 1475 N. Scottsdale Road, Suite 200, SCOTTSDALE 85257, AZ, USA, United States of America ~72: LACKNER, Klaus;PAGE, Robert~ 33:US ~31:63/119,306 ~32:30/11/2020

2023/05916 ~ Complete ~54:BULK MATERIAL RECEIVING, CONVEYING, STORING, AND DISPENSING ~71:OWENS-BROCKWAY GLASS CONTAINER INC., One Michael Owens Way, Perrysburg, Ohio, 43551, United States of America ~72: KIRK HOLMES;STEVEN WILL~ 33:US ~31:17/061,302 ~32:01/10/2020

2023/05907 ~ Complete ~54:TREATMENT OF DISEASES RELATED TO ATP-BINDING CASSETTE TRANSPORTER 1 DYSFUNCTION USING TREM2 AGONISTS ~71:Vigil Neuroscience, Inc., One Broadway Suite 07-300, CAMBRIDGE 02142, MA, USA, United States of America ~72: BRENNAN, Matthew;FISHER, Richard;PAPAPETROPOULOS, Spyridon~ 33:US ~31:63/121,404 ~32:04/12/2020

2023/05918 ~ Complete ~54:TREATMENT OF DISORDERS ASSOCIATED WITH LOW BH4 BIOAVAILABILITY ~71:OXFORD UNIVERSITY INNOVATION LIMITED, Buxton Court, 3 West Way, Oxford, OX2 0JB, United

Kingdom ~72: KEITH CHANNON~ 33:GB ~31:2020285.9 ~32:21/12/2020;33:GB ~31:2108231.8 ~32:09/06/2021

2023/05909 ~ Complete ~54:LIPID COMPOUNDS AND LIPID NANOPARTICLE COMPOSITIONS ~71:SUZHOU ABOGEN BIOSCIENCES CO., LTD., B1-501, 218 Xinghu Ave, Biobay, Suzhou Industrial Park Suzhou, People's Republic of China ~72: WANG, Xiulian;YING, Bo~ 33:CN ~31:202110051373.1 ~32:14/01/2021;33:US ~31:63/140,691 ~32:22/01/2021;33:WO ~31:PCT/CN2021/122704 ~32:08/10/2021

2023/05890 ~ Provisional ~54:OFF-LOAD BURNER ~71:DUMISANI PHILDIN DLAMINI, 5 MAPHANYA STREET, South Africa ~72: DUMISANI PHILDIN DLAMINI~ 33:ZA ~31:1 ~32:01/06/2023

2023/05893 ~ Complete ~54:STONE FLOORING REINFORCEMENT STRUCTURE, REINFORCED STONE FLOORING, STONE STRUCTURAL HOUSE AND CONSTRUCTION METHOD THEREFOR ~71:FUJIAN MINNAN CONSTRUCTION ENGINEERING CO.,LTD., Minnan Building, Hu Street, Jingfeng Town, Hui'an County, Quanzhou City, Fujian Province, 362142, People's Republic of China ~72: FU, Zhifeng;HUANG, Jielong~

2023/05895 ~ Complete ~54:BALLOON CONTAINING GEFITINIB LAYER COATING ~71:The First Affiliated Hospital Of University Of South China, NO.69 ChuanShanLu, Shigu, Hengyang, Hunan, People's Republic of China ~72: CHU Chun;HU Hongmin;YANG Jun;YANG Ting~

2023/05897 ~ Complete ~54:A SYSTEM TO ANALYSE SPREAD SPECTRUM USING DS, FH AND PN SEQUENCE TECHNIQUES ~71:Dr. Vishal Sharma, S/O Shri Kailash Chandra Sharma, Shivam Nagar 1, Plot 56, Ramnagariya, Jagatpura, Jaipur, Rajasthan, 302017, India ~72: Dr. Vishal Sharma~

2023/05898 ~ Complete ~54:HIGH TENSILE STRENGTH AZ81 MAGNESIUM ALLOY MATERIAL CONTAINING MIXED RARE EARTH AND PREPARATION PROCESS THEREOF ~71:Shanghai Second Polytechnic University, No. 2360 Jinhai Road, Pudong new district, Shanghai city, People's Republic of China ~72: LI Hechao;WANG Jinmin;ZHU Luping;ZHU Xiangrong~

2023/05908 ~ Complete ~54:POWDER SPRAYING SYSTEM, POWDER SPRAYING NOZZLE AND METHOD ~71:Johnson Matthey Public Limited Company, 5th Floor, 25 Farringdon Street, LONDON EC4A 4AB, UNITED KINGDOM, United Kingdom ~72: BURMESTER, Sabina;HOTCHKISS, Thomas;MARVELL, David;THOMSON, Craig~ 33:US ~31:63/200,076 ~32:12/02/2021

2023/05911 ~ Complete ~54:PURIFICATION DEVICE ~71:NIPPON SHOKUBAI CO., LTD., 1-1, Koraibashi 4-chome, Chuo-ku, Osaka-shi, Osaka, 5410043, Japan ~72: HIROKI WADA;MASASHI MUKAE;SHOGO ARAI;TAKAYUKI MATSUDA;TOSHIYA FUKUMOTO;TOYOFUMI SAKAI~ 33:JP ~31:2020-193566 ~32:20/11/2020

2023/05900 ~ Complete ~54:FEED ADDITIVE ~71:EW NUTRITION GMBH, Hogenboegen 1, Germany ~72: MICHELS, Andreas;PERES DE CARVALHO, Maira;PUL, Uemit~ 33:EP ~31:20211633.1 ~32:03/12/2020

2023/05903 ~ Complete ~54:HERBICIDE COMPOSITIONS WITH EPYRIFENACIL AND 2,4-D TRIETHANOLAMINE SALT WITH IMPROVED PROPERTIES ~71:Monsanto Technology LLC, 800 North Lindbergh Boulevard, ST LOUIS 63167, MO, USA, United States of America ~72: JIMOH, Ganiyu A.~ 33:US ~31:63/109,929 ~32:05/11/2020

2023/05913 ~ Complete ~54:BULK MATERIAL RECEIVING, CONVEYING, STORING, AND DISPENSING ~71:OWENS-BROCKWAY GLASS CONTAINER INC., One Michael Owens Way, Perrysburg, Ohio, 43551, United States of America ~72: KIRK HOLMES;STEVEN WILL~ 33:US ~31:17/061,302 ~32:01/10/2020

2023/05915 ~ Complete ~54:BULK MATERIAL RETRIEVAL AND TRANSPORT SYSTEM AND METHODS ~71:OWENS-BROCKWAY GLASS CONTAINER INC., One Michael Owens Way, Perrysburg, Ohio, 43551, United States of America ~72: KIRK HOLMES;STEVEN WILL~ 33:US ~31:17/061,302 ~32:01/10/2020

2023/05904 ~ Complete ~54:COMPOSITIONS AND METHODS FOR TREATING OCULAR DISEASES ~71:Annexon, Inc., 1400 Sierra Point Parkway, Building C, 2nd Floor, BRISBANE 94005, CA, USA, United States of America ~72: GROVER, Anita;TAYLOR, Lori;YEDNOCK, Ted~ 33:US ~31:63/121,629 ~32:04/12/2020

2023/05906 ~ Complete ~54:CD8 POLYPEPTIDES, COMPOSITIONS, AND METHODS OF USING THEREOF ~71:Immatics US, Inc., 2201 W. Holcombe Blvd., Suite 205, HOUSTON 77030, TX, USA, United States of America ~72: BAJWA, Gagan;KALRA, Mamta;MATA, Melinda~ 33:US ~31:63/132,824 ~32:31/12/2020;33:DE ~31:10 2021 100 038.6 ~32:04/01/2021;33:US ~31:63/247,775 ~32:23/09/2021

2023/05912 ~ Complete ~54:COMPOSTIONS AND METHODS FOR BIOLOGICAL PRODUCTION AND HARVEST OF PRECIOUS METALS, PLATINUM GROUP ELEMENTS, AND RARE EARTH ELEMENTS ~71:ECOBIOME HOLDINGS, LLC, 59 E. Whistlers Bend Circle The Woodlands, Texas, 77384, United States of America ~72: MARC RODRIGUEZ~ 33:US ~31:63/120,997 ~32:03/12/2020;33:US ~31:63/196,509 ~32:03/06/2021

2023/05919 ~ Complete ~54:THE BLOOD PRESSURE GLUCOSE TESTING EQUIPMENT FOR THE ELDERLY AND TEST METHOD THEREOF ~71:North China University of Science and Technology, No. 21 Bohai Avenue, Caofeidian New Town, Tangshan City, Hebei Province, 063210, People's Republic of China ~72: Hui Dong;Jundong Tang;Lan Guo;Pengfei Li;Shuai Zhang;Yanming Zhao;Yuan Yao;Zhiyu Zhao~ 33:CN ~31:202210417045.3 ~32:20/04/2022

2023/05914 ~ Complete ~54:BULK MATERIAL HANDLING METHODS, SYSTEMS, SUBSYSTEMS, AND APPARATUSES ~71:OWENS-BROCKWAY GLASS CONTAINER INC., One Michael Owens Way, Perrysburg, Ohio, 43551, United States of America ~72: KARIN GABRIELA BASTARRACHEA;KIRK HOLMES;PHILIP J RAUSCH;ROGER SMITH;STEVEN WILL~ 33:US ~31:17/061,302 ~32:01/10/2020

2023/05917 ~ Complete ~54:BULK MATERIAL DISCHARGING ~71:OWENS-BROCKWAY GLASS CONTAINER INC., One Michael Owens Way, Perrysburg, Ohio, 43551, United States of America ~72: KIRK HOLMES;STEVEN WILL~ 33:US ~31:17/061,302 ~32:01/10/2020

2023/05891 ~ Complete ~54:MULTI-SCALE SIMULATION METHOD FOR EXCAVATION STABILITY OF JOINTED ROCK MASS ~71:Anhui University of Science and Technology, No. 168 Taifeng Street, Tianjia'an District, Huainan City, Anhui Province, People's Republic of China;Chongqing University, No. 174 Zhengjie Street, Shapingba District, Chongqing, People's Republic of China;Jiangsu Hengyichuang Intelligent Technology Co., LTD., Room 216 (CNK), South No.2 Unit, Building B-17, Big Data Industrial Park, Yannan High-tech Zone, Yancheng City, Jiangsu Province, People's Republic of China;North China Institute of Science and Technology, No. 368, Shimen Road, North Nangong Station, Wulituo, Shijingshan District, Beijing, People's Republic of China;University of Science and Technology Beijing, No. 30 Xueyuan Road, Haidian District, Beijing, People's Republic of China ~72: CHEN Haoyi;CHEN Liang;CHENG Zhiheng;LIU Peng;MA Haifeng;WANG Hongbing;XU Zhenwei;XUE Ao;ZHAO Zhechen;ZOU Quanle~ 33:CN ~31:202310507073.9 ~32:08/05/2023

2023/05910 ~ Complete ~54:USE OF AN ANIMAL FEED ADDITIVE IN LOW-PROTEIN FEED FOR POULTRY ~71:Alzchem Trostberg GmbH, Dr.-Albert-Frank-Strasse 32, Germany ~72: Jürgen SANS;Robert ALBER~ 33:DE ~31:10 2021 100 383.0 ~32:12/01/2021

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2023/05929 ~ Complete ~54:A METHOD OF PREPARING VANADIUM DIOXIDE BATTERY MATERIAL FROM SPENT VANADIUM-TITANIUM BASED SCR CATALYST ~71:China University of Petroleum-Beijing, 18, Fuxue Road, Changping District, People's Republic of China ~72: Chunxia WANG;Guoyong HUANG;Jiawei WEN;Xuejun HOU;Xueli WANG~ 33:CN ~31:202210878133.3 ~32:25/07/2022

2023/05945 ~ Complete ~54:HAIR CONDITIONING COMPOSITION FOR IMPROVED DEPOSITION ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: AMELIE LAURA SIMON;CESAR ERNESTO MENDOZA FERNANDEZ;RICHARD JONATHAN BARFOOT~ 33:EP ~31:20216222.8 ~32:21/12/2020

2023/05949 ~ Complete ~54:DEVICE AND METHOD FOR PREPARING A CELL SUSPENSION ~71:CUTISS AG, Grabenstrasse 11, Switzerland ~72: HOLENSTEIN, Claude;RONFARD, Vincent;URDINEZ, Joaquin~ 33:EP ~31:20211094.6 ~32:01/12/2020

2023/05952 ~ Complete ~54:METHODS AND COMPOSITIONS FOR SHORT STATURE PLANTS THROUGH MANIPULATION OF GIBBERELLIN METABOLISM ~71:MONSANTO TECHNOLOGY LLC, 800 North Lindbergh Boulevard, St. Louis, Missouri, United States of America ~72: ALLEN, Edwards;BODDU, Jayanand;GOLDSHMIDT, Alexander;NEELAM, Anil;PACIOREK, Tomasz;SLEWINSKI, Thomas;WANG, Huai~ 33:US ~31:63/125,752 ~32:15/12/2020;33:US ~31:63/180,344 ~32:27/04/2021

2023/05927 ~ Complete ~54:COMPOUNDS AND SYNTHETIC METHODS FOR THE PREPARATION OF RETINOID X RECEPTOR-SPECIFIC RETINOIDS ~71:IO THERAPEUTICS, INC., 5927 ALMEDA ROAD, APT. #22105, HOUSTON, TX, UNITED STATES OF AMERICA, United States of America ~72: CHANDRARATNA, Roshantha, A.;JACKS, Thomas;THOMPSON, Andrew;VULIGONDA, Vidyasagar, Pradeep;WADE, Peter~ 33:US ~31:62/588,163 ~32:17/11/2017;33:US ~31:62/671,137 ~32:14/05/2018

2023/05930 ~ Complete ~54:A SLURRY LEAKAGE PREVENTION STRUCTURE FOR SUPERIMPOSED FLOOR SLABS AND CONSTRUCTION METHOD THEREOF ~71:CHINA CONSTRUCTION FIFTH ENGINEERING BUREAU CO., LTD., No.158 Zhongyi 1st Road, Yuhua District, Changsha, Hunan Province, 410000, People's Republic of China ~72: HAN, Yaxin;HENG, Yajun;MENG, Linghao;QIAN, Yong;ZHANG, Bin~

2023/05954 ~ Complete ~54:A FLAT COIL CABLE WITH HIGH TEMPERATURE RESISTANCE, BENDING RESISTANCE AND WEAR RESISTANCE FOR A FREQUENCY CONVERSION DEVICE ~71:Anhui Huaneng Cable Group Co., Ltd., Bawan Industrial Zone, Wuwei City, Wuhu City, Anhui Province, 238300, People's Republic of China ~72: Chaoya You;Chuanbo Gong;Shanghao Xiao;Xudong Zhang;Zhaoyun Tian~ 33:CN ~31:202210515394.9 ~32:12/05/2022

2023/05956 ~ Complete ~54:DEVICE FOR ASCERTAINING DATA FOR DETERMINING A VELOCITY OF A VEHICLE, EVALUATION DEVICE, AND METHOD FOR THIS PURPOSE ~71:K.W.H. CICLOSPORT VERTRIEBS GMBH, Lohenstrasse 11, Germany ~72: Christian BECKER;Georg JAHNEN~ 33:EP ~31:20216895.1 ~32:23/12/2020

2023/05959 ~ Complete ~54:FCRN ANTIBODIES AND METHODS OF USE THEREOF ~71:Momenta Pharmaceuticals, Inc., 1125 Trenton-Harbourton Road, TITUSVILLE 08560, NJ, USA, United States of America ~72: ARROYO, Santiago;BLACK, Shawn;DENNEY, William;JIN, Jianhua;JOUVIN, Marie-Helene;KARCHER, Keith;LEU, Jocelyn H.;LING, Leona E.;RAMCHANDREN, Sindhu;SUN, Hong;ZHU, Yaowei~ 33:US ~31:63/110,884 ~32:06/11/2020;33:US ~31:63/137,972 ~32:15/01/2021;33:US ~31:63/173,126 ~32:09/04/2021;33:US ~31:63/173,919 ~32:12/04/2021;33:US ~31:63/174,423 ~32:13/04/2021;33:US ~31:63/175,440 ~32:15/04/2021;33:US ~31:63/203,075 ~32:07/07/2021;33:US ~31:63/203,077 ~32:07/07/2021;33:US ~31:63/219,155 ~32:07/07/2021

2023/05963 ~ Complete ~54:A MENTAL HEALTH TEST DEVICE AND A TEST METHOD THEREOF ~71:North China University of Science and Technology, No. 21 Bohai Avenue, Caofeidian New Town, Tangshan City, Hebei Province, 063210, People's Republic of China ~72: Chenxi Shi;Jie Li;Jundong Tang;Lan Guo;Luyang Gao;Zhiyu Zhao~ 33:CN ~31:202210456040.1 ~32:27/04/2022

2023/05924 ~ Complete ~54:EXTRACTING DEVICE AND METHOD FOR HESPERIDIN INGREDIENT IN QUZHOU FRUCTUS AURANTII ~71:Quzhou Ruicaotang Rue Science and Technology Co., LTD., Room 101, Zone 6, Quzhou Agricultural Specialty Trading Center, Jiangjiashan Township, Kecheng District, Quzhou, Zhejiang, 324100, People's Republic of China;Quzhou Vocational and Technical College, No.18, Jiangyuan Road, Baiyun Street, Kecheng District, Quzhou, Zhejiang, 324000, People's Republic of China ~72: Chunchun GAN;Hong LIU;Jiangang WANG;Zhan JIN;Ziyue WANG~

2023/05925 ~ Complete ~54:ASSISTED DECISION-MAKING METHOD AND SYSTEM FOR DAMAGE CONTROL RESUSCITATION ~71:ARMY MEDICAL UNIVERSITY, PEOPLE'S LIBERATION ARMY, PRC, No. 30, Gaotanyan Main Street, Shapingba District, Chongqing, 400038, People's Republic of China;CHONGQING UNIVERSITY OF TECHNOLOGY, No. 69, Hongguang Avenue, Banan District, Chongqing, 400054, People's Republic of China ~72: CHEN, Can;CHEN, Lin;DU, Wenqiong;JIA, Yijun;JIANG, Renqing;KANG, Na;MA, Yunfei;NAN, Hai;XUE, Zhijian;YANG, Haoyang;ZHONG, Xin;ZONG, Zhaowen~ 33:CN ~31:2023104545139 ~32:25/04/2023

2023/05928 ~ Complete ~54:BIOLOGICAL PREPARATION FOR REMOVING MYCOTOXINS FROM FEED, AND PREPARATION METHOD AND APPLICATION THEREOF ~71:Shandong Jianyuan Biotechnology Co., Ltd., No. 214, Nanguan Street, Taishan District, Tai'an City, Shandong Province, 271000, People's Republic of China ~72: DONG, Guihong;DONG, Xiaotong;GONG, Qian;HE, Rongyan;LI, Yan;LI, Zhicai;LIU, Yu;WANG, Cheng;WANG, Feng;WANG, Ling;WANG, Ning;XING, Zhu;YI, Hui;ZHAO, Cui;ZHAO, Fuping;ZONG, Qian~ 33:CN ~31:202210631821X ~32:07/06/2022

2023/05934 ~ Complete ~54:A METHOD FOR INVESTIGATING THE AIR QUALITY PREDICTION AND AGRICULTURAL APPLICATIONS BASED ON ARTIFICIAL NEURAL NETWORK ~71:Akhilesh Kumar Gupta, Research Scholar (Agronomy) V.B.S.P.U. Jaunpur, U.P., 222002, India;Ankit Tiwari, Research Scholar (Agronomy) S.V.P.U.A.T Modipuram, Meerut, U.P., 250110, India;Devesh Kumar Agrawal, Assistant Professor, Department of Agriculture, Shyan University, Didwana, Dausa Rajasthan, India;Dr. Ashok Kumar, Dean, School of Agricultural Sciences, IIMT University, Meerut, Uttar Pradesh, 250001, India;Dr. Bishal Kumar Mishra, Assistant Professor, School of Agricultural Sciences, IIMT University, Meerut, Uttar Pradesh, 250001, India;Dr. Prabhat Kumar, Assistant Professor, School of Agricultural Sciences, IIMT University, Meerut, Uttar Pradesh, 250001, India;Dr. Vibha Yadav, Assistant Professor, School of Agricultural Sciences, IIMT University, Meerut, Uttar Pradesh, 250001, India;Kalyan Singh Yadav, Research Scholar (Genetics and Plant Breeding), V.B.S.P.U. Jaunpur, U.P., 222002, India;Mohd Juned Ansari, Assistant Professor, College of Law, IIMT University, Meerut, Uttar Pradesh, 250001, India;Rajkumar, Assistant Professor, School of Agricultural Sciences, IIMT University, Meerut, Uttar Pradesh, 250001, India;Shaista Kahkeshan, Assistant Professor, College of Law, IIMT University, Meerut, Uttar Pradesh, 250001, India;Shubham Gupta, Research Scholar, Ph.D. Forestry (Forest biology and tree improvement), SHUATS, Prayaraj, 211003, Uttar Pradesh, India;Vikram Singh, Assistant Professor, Department of Horticulture, School of Agriculture, Lovely Professional University, Punjab, 144411, India ~72: Akhilesh Kumar Gupta;Ankit Tiwari;Devesh Kumar Agrawal;Dr. Ashok Kumar;Dr. Bishal Kumar Mishra;Dr. Prabhat Kumar;Dr. Vibha Yadav;Kalyan Singh Yadav;Mohd Juned Ansari;Rajkumar;Shaista Kahkeshan;Shubham Gupta;Vikram Singh~

2023/05937 ~ Complete ~54:FLAT RIBBON TYPE CONDUCTIVE WIRE BODY AND FLAT RIBBON TYPE WIRE HARNESS ~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 ~31:202011513821.7 ~32:18/12/2020

2023/05944 ~ Complete ~54:METHODS OF USING INTERLEUKIN-2 AGENTS ~71:THE GENERAL HOSPITAL CORPORATION, 55 Fruit Street, Boston, Massachusetts, 02114, United States of America;VISTERRA, INC., 275 2nd Avenue 4th Floor Waltham, Massachusetts, 02451, United States of America ~72: BOOPATHY RAMAKRISHNAN;GREGORY BABCOCK;LEONARDO VIDAL RIELLA;SCOTT MOORE CARLSON;THIAGO DE JESUS BORGES;ZACHARY SHRIVER~ 33:US ~31:63/121,726 ~32:04/12/2020;33:US ~31:63/283,822 ~32:29/11/2021

2023/05957 ~ Complete ~54:A SPECIAL CLEANING AND DISINFECTING MACHINE FOR DENTAL INSTRUMENTS ~71:North China University of Science and Technology, No. 21 Bohai Avenue, Caofeidian New Town, Tangshan City, Hebei Province, 063210, People's Republic of China ~72: Chunguang Zhang;Peng Liu;Yang Wang;Yanming Zhao;Yijie Li;Zhiyu Zhao~ 33:CN ~31:202210436277.3 ~32:25/04/2022

2023/05958 ~ Complete ~54:CLEANING DEVICE AND METHOD FOR CLEANING A FILTER ARRANGEMENT ~71:Mack GmbH, Parkallee 20, WALDENBURG 74638, GERMANY, Germany ~72: DIETRICH, Marco;MACK, Walter~ 33:DE ~31:10 2020 133 470.2 ~32:15/12/2020

2023/05962 ~ Complete ~54:A NEGATIVE PRESSURE MOUTH OPENER FOR PREVENTING AEROSOL DISPERSAL IN STOMATOLOGY DEPARTMENT ~71:North China University of Science and Technology, No. 21 Bohai Avenue, Caofeidian New Town, Tangshan City, Hebei Province, 063210, People's Republic of China ~72: Lan Guo;Lili Zhao;Peng Liu;Yanming Zhao;Yijie Li;Zhiyu Zhao~ 33:CN ~31:202210369455.5 ~32:08/04/2022

2023/05969 ~ Complete ~54:HEATING SYSTEMS AND METHODS ~71:BIACO LIMITED, Post Office Vaults, 4 Market Place, United Kingdom ~72: ATKINS, Andrew;COLES, Raymond;DYE, Bob;KEY, Christopher;MALIZIA, Barry;WRIGHT, Robert~ 33:GB ~31:2102818.8 ~32:26/02/2021

2023/05941 ~ Complete ~54:PERSONAL CARE COMPOSITION ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: DANDAN HUANG;HONG ZHANG;XUELAN GU~ 33:CN ~31:PCT/CN2020/139451 ~32:25/12/2020;33:EP ~31:21153894.7 ~32:28/01/2021

2023/05951 ~ Complete ~54:IMMUNOGLOBULIN PROTEINS THAT BIND TO NPR1 AGONISTS ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: CHATTERJEE, Ishita;DUNN, Michael;HUANG, Tammy;KAMAT, Vishal;MORTON, Lori;RAFIQUE, Ashique;STAHL, Neil~ 33:US ~31:63/127,959 ~32:18/12/2020

2023/05953 ~ Complete ~54:METHODS FOR IDENTIFICATION OF SCRAMBLED DISULFIDES IN BIOMOLECULES ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: KLEINBERG, Andrew;MAO, Yuan~ 33:US ~31:63/128,146 ~32:20/12/2020

2023/05961 ~ Complete ~54:METHOD AND SYSTEM FOR AUTOMATED ROCK RECOGNITION ~71:Technological Resources Pty. Limited, Level 7, 360 Collins Street, MELBOURNE 3000, VICTORIA, AUSTRALIA, Australia ~72: DUYVESTEYN, Saskia;KUMAR, Bhupendra;RODRIGUEZ, Francisco~ 33:AU ~31:2020904710 ~32:17/12/2020;33:AU ~31:2020904850 ~32:24/12/2020

2023/05921 ~ Provisional ~54:AN INTERGRATED MINE MONITORING SYSTEM ~71:Innovative Mining Products (Pty) Ltd, 109 Adcock Ingram Avenue, Aeroton, South Africa ~72: CROMPTON, Brendan~

2023/05922 ~ Provisional ~54:FURNACE POWER RENEWAL ~71:KHWIBI STEPHEN APHANE, 1123 Pinnacle View, South Africa ~72: Khwibi Stephen aphane~

2023/05938 ~ Complete ~54:A METHOD AND SYSTEM FOR PROCESSING FINANCIAL TRANSACTIONS FOR A CUSTOMER ~71:BENLACHTAR, Yannis, 56 Riva Building, 104-120 Lee High Road, United Kingdom ~72: BENLACHTAR, Yannis~ 33:ZA ~31:2020/08049 ~32:23/12/2020

2023/05940 ~ Complete ~54:THERAPEUTIC RNA FOR TREATING CANCER ~71:BIONTECH SE, An der Goldgrube 12, 55131, Mainz, Germany ~72: ALEXANDER MUIK;DAVID EISEL;JAN DIEKMANN;LENA MAREEN KRANZ;MATHIAS VORMEHR;SINA FELLERMEIER-KOPF;UGUR SAHIN~ 33:EP ~31:PCT/EP2020/087469 ~32:21/12/2020

2023/05942 ~ Complete ~54:PERSONAL CARE COMPOSITION ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: TINGYAN MI;XUELAN GU~ 33:CN ~31:PCT/CN2020/139518 ~32:25/12/2020;33:EP ~31:21153895.4 ~32:28/01/2021

2023/05943 ~ Complete ~54:USE OF CLADRIBINE FOR TREATING IMMUNE BRAIN DISEASE ~71:CHORD THERAPEUTICS SA, 15 avenue de Secheron, 1202, Geneva, Switzerland ~72: KONRAD REJDAK~ 33:GB ~31:2019460.1 ~32:10/12/2020

2023/05946 ~ Complete ~54:HAIR CONDITIONING COMPOSITION FOR IMPROVED DEPOSITION ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: AMELIE LAURA SIMON;CESAR ERNESTO MENDOZA FERNANDEZ;RICHARD JONATHAN BARFOOT~ 33:EP ~31:20216225.1 ~32:21/12/2020

2023/05947 ~ Complete ~54:METHOD AND SYSTEM FOR STORING ENERGY IN THE FORM OF BIOPOLYMERS ~71:LANZATECH, INC., 8045 Lamon Avenue, Suite 400, Skokie, Illinois, 60077, United States of America ~72: NICHOLAS BOURDAKOS;SEAN DENNIS SIMPSON;XUELIANG LI~ 33:US ~31:63/171,032 ~32:05/04/2021

2023/05948 ~ Complete ~54:ELECTRONIC WEARABLE DEVICE FOR DISPLAYING INFORMATION ~71:DRIVERDO LLC, 7900 College Boulevard, Suite 141, United States of America ~72: HAQUE, Mashhur, Zarif;MONTEIRO, Anthony~ 33:US ~31:63/133,618 ~32:04/01/2021

2023/05950 ~ Complete ~54:AN AGGREGATE ~71:UNIVERSITY OF PRETORIA, Lynnwood Road, Hillcrest, PRETORIA 0002, SOUTH AFRICA, South Africa ~72: HOFMEYR, Stuart Grant;KEARSLEY, Elizabeth Paulina~ 33:ZA ~31:2021/09381 ~32:23/11/2021

2023/05955 ~ Complete ~54:COUPLED MULTI-PURPOSE DEVICE, FOR THE RUNNING INSTALLATION OF VINEYARD ACCESSORIES, IN PARTICULAR STAKES ~71:GEORGES MANDRAFINA, Rua Vale Vinte, Mouros Quinta Do, Portugal ~72: MANDRAFINA, Georges~ 33:FR ~31:2011704 ~32:16/11/2020;33:FR ~31:2011705 ~32:16/11/2020

2023/05960 ~ Complete ~54:PROCESS FOR TREATING MOLTEN IRON ~71:Foseco International Limited, 1 Midland Way, Central Park, BARLBOROUGH LINKS S43 4XA, DERBYSHIRE, UNITED KINGDOM, United Kingdom ~72: HRABINA, David;POWELL, Colin~ 33:EP ~31:20215161.9 ~32:17/12/2020

2023/06062 ~ Provisional ~54:SHARE-2-CARE ~71:Michael John Stanfliet, 18 Avon Cresent, South Africa ~72: Michael John Stanfliet~

2023/05920 ~ Provisional ~54:ELEVATING/TILTABLE/EXPANDABLE APARATUS FOR VEHICLES, TRAILERS AND CAMPERS. LOADING AND OFFLOADING VERTICAL AND HORIZONTAL ~71:Jan Botha, Viben12, 12 Viben RD, South Africa ~72: Jan Botha~

2023/05923 ~ Complete ~54:LONG-TERM ANTI-INDENTATION MASK BRACE FOR EMERGING INFECTIOUS DISEASES AND MASK USING THE SAME ~71:The Fifth Medical Center of PLA General Hospital, No. 8, Dongdajie, Fengtai District, Beijing, 100071, People's Republic of China ~72: Dawei ZHANG;Fen SUN;Yanli LEI;Zhifang BAI~

2023/05933 ~ Complete ~54:A TYPE OF PREFABRICATED WALL PANEL FOR CONVENIENT CONSTRUCTION ~71:CHINA CONSTRUCTION FIFTH BUREAU SOUTH CHINA CONSTRUCTION CO., LTD, T1-8A, No. 1 Shenzhen Bay, No. 3088, Community Center Road, Blue Coastwuchai Street, Anshan District, Shenzhen, Guangdong Province, 518000, People's Republic of China ~72: BAI, Pengfei;CHEN, Chengbo;CHEN, Long;FAN, Lixiong;FU, Yangbin;LIU, Minjie;WANG, Jin;WANG, Qianhong;WEI, Wenzhou;WU, Weizhi;XIE, Anding;XU, Bing;YANG, Bowen;YUAN, Jiakang;ZHAN, Du;ZHANG, Juanmei;ZHANG, Wenyang~

2023/05935 ~ Complete ~54:A FECAL LEAKAGE PLATE DETECTION EQUIPMENT ~71:Anhui Nongke Jiuhong Animal Husbandry Technology Co., Ltd, 10th Floor, Building A, Science And Technology Entrepreneurship Service Center, Lu'an Economic And Technological Development Zone Lu'an, Anhui, 237000, People's Republic of China ~72: Qing yang~

2023/05939 ~ Complete ~54:ANTIBODIES FOR OPIOID TREATMENTS ~71:THE SCRIPPS RESEARCH INSTITUTE, 10550 North Torrey Pines Road, La Jolla, California, 92037, United States of America ~72: BIN ZHOU;KIM D JANDA;PAUL T BREMER~ 33:US ~31:63/111,699 ~32:10/11/2020

2023/05926 ~ Complete ~54:A USER MANAGEMENT SYSTEM ~71:LANDOBYTE (PTY) LTD, 57 DE HOEVE RD, ELDORAIGNE, CENTURION, 0157, SOUTH AFRICA, South Africa ~72: JANSE VAN RENSBURG, Rhyno;TIMM, Bevan, Charles;VAN ROOYEN, Abraham~ 33:ZA ~31:2022/08116 ~32:21/07/2022

2023/05932 ~ Complete ~54:A TYPE OF COMPOUND MICROORGANISM BACTERIA AGENT USED FOR DEGRADING CHLORIMURON-ETHYL AND ITS APPLICATION ~71:NORTHEAST AGRICULTURAL UNIVERSITY, No. 600 Changjiang Road, Xiangfang District, Harbin City, Heilongjiang Province, 150006, People's Republic of China ~72: Chunyan LI;Genji YANG;Hailian ZANG;Haohao YAN;Hua YANG;Lei MIAO;Tian MA;Xinning HUANG;Xinyue ZHAO;Yang ZHOU;Yaozu MI;Yi CHENG~

2023/05964 ~ Complete ~54:A SPECIAL CLEANING AND DISINFECTING MACHINE FOR DENTAL INSTRUMENTS ~71:North China University of Science and Technology, No. 21 Bohai Avenue, Caofeidian New Town, Tangshan City, Hebei Province, 063210, People's Republic of China ~72: Chunguang Zhang;Peng Liu;Yang Wang;Yanming Zhao;Yijie Li;Zhiyu Zhao~ 33:CN ~31:202210436277.3 ~32:25/04/2022

2023/05931 ~ Complete ~54:WEISSELLA PARAMESENTEROIDES M1 AND USE THEREOF ~71:HUAINAN NORMAL UNIVERSITY, Huainan Normal University, Dongshan West Road, Tianjiaan District, Huainan, Anhui Province, 232038, People's Republic of China ~72: CHEN, Zhina;HE, Jingtang;WANG, Xiaoyu~ 33:CN ~31:2023102770912 ~32:17/03/2023

2023/05936 ~ Complete ~54:A G-SSR MARKER PRIMER COMBINATION AND ITS APPLICATION IN THE CONSTRUCTION OF FINGERPRINT OF ANCIENT CINNAMOMUM CAMPHORA (L.) ~71:Nanchang Institute of Technology, No. 289 Tianxiang Avenue, High tech Zone, Nanchang City, Jiangxi Province, 330099, People's Republic of China ~72: Deng Yujie;Hou Jiexi;Jin Zhinong;Lei Lei;Wang Yanbo;Xiao Changlong;Zhang Jie;Zhao Jiao~ 33:CN ~31:2023105435969 ~32:15/05/2023

. - APPLIED ON 2023/06/06 -

2023/05981 ~ Complete ~54:MONITORING SYSTEM AND METHOD FOR SLOPE SURFACE DEFORMATION ~71:Anhui Transportation Holding Group Co., Ltd., No.520 Wangjiang West Road, High-tech Development Zone,

Hefei City, Anhui Province, 230031, People's Republic of China;Changsha University of Science & Technology, No. 960, 2nd Section. Wanjiali South Road, Yuhua District, Changsha City, Hunan Province, 410114, People's Republic of China ~72: Haojun LIU;Hengwu HU;Jie XU;Junfeng LIAN;Liang XIONG;Lin TANG;Qiuming XIAO;Ruidong LYU;Runzhou LUO;Shengdi LU;Wenhui XU;Xiangjun CHENG;Xiaosong YANG;Xudong ZHA;Yimin XIAO;Yu ZHAO;Yuanfeng MIN;Zifan SUI~

2023/05984 ~ Complete ~54:SUSTAINED RELEASE FORMULATIONS USING NON-AQUEOUS EMULSIONS ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, New York, 10591-6707, United States of America ~72: HUNTER CHEN;YIMING ZHAO~ 33:US ~31:62/940,009 ~32:25/11/2019

2023/05991 ~ Complete ~54:PCR AMPLIFICATION IDENTIFICATION METHOD AND SPECIAL PRIMER FOR GOOSE-DERIVED COMPONENTS BASED ON 16S RRNA GENE ~71:Jiangsu Institute of Poultry Sciences, No.58 Cang Xie Road, Hanjiang District, Yangzhou City, Jiangsu Province, People's Republic of China ~72: CHEN Dawei;FAN Yanfeng;GAO Yushi;JIA Xiaoxu;LI Jianchao;LIU Long;TANG Mengjun;TANG Xiujun;ZHANG Jing;ZHANG Xiaoyan~

2023/05994 ~ Complete ~54:A PREPARATION METHOD OF BLACK FUNGUS NUTRIENT SOLUTION ~71:XUZHOU VOCATIONAL COLLEGE OF INDUSTRIAL TECHNOLOGY, School of Chemical Engineering, Xuzhou Polytechnic, No. 1, Xiangwang Road, Gulou District, Xuzhou, Jiangsu, 221140, People's Republic of China ~72: LIU, Chunfen;MU, Jinchao;ZHANG, Xuguang~

2023/05998 ~ Complete ~54:NOVEL BIFUNCTIONAL MOLECULES FOR TARGETED PROTEIN DEGRADATION ~71:AMPHISTA THERAPEUTICS LIMITED, The Cori Building Granta Park, Great Abington, United Kingdom ~72: CHURCHER, Ian;MACGREGOR, Callum;MATHIESON, Michael;MCGARRY, David;MEIER, Gregor;TESTA, Andrea~ 33:GB ~31:2020186.9 ~32:18/12/2020;33:GB ~31:2102494.8 ~32:22/02/2021

2023/06007 ~ Complete ~54:NUCLEIC ACID VACCINES ~71:ADAPTVAC APS, Ole Maaløes Vej 3, 2200 Copenhagen N, Denmark;UNIVERSITY OF COPENHAGEN, Norregade 10, 1165, Copenhagen K, Denmark ~72: ADAM FREDERIK SANDER BERTELSEN;CYRIELLE ELYETTE FOUGEROUX;LOUISE GOKSØYR;MORTEN AGERTOUG NIELSEN;WILLEM ADRIAAN DE JONGH~ 33:EP ~31:20215653.5 ~32:18/12/2020;33:EP ~31:21161436.7 ~32:09/03/2021

2023/06012 ~ Complete ~54:OXABICYCLOHEPTANES FOR TREATMENT OF SMALL CELL LUNG CANCER ~71:LIXTE BIOTECHNOLOGY, INC., 680 E. Colorado Blvd., Suite 180, Pasadena, California, 91101, United States of America ~72: JOHN S KOVACH;RAVI SALGIA~ 33:US ~31:63/139,047 ~32:19/01/2021

2023/05967 ~ Provisional ~54:TRANSFER OF INDICATOR MEANS TO A SURFACE AREA ~71:DO IT DIGITALLY PRINTERS CC T/A UPRINT SA, 65 Adelaide Tambo Drive, South Africa ~72: STEINBACH, Richard John~

2023/05970 ~ Complete ~54:A GRAFTING METHOD OF XANTHOCERAS SORBIFOLIA ~71:Gansu Province Academy of Qilian Water Resource Conservation Forests Research Institute, No.3 East Ring Road, Ganzhou District, Zhangye City, Gansu Province, 734000, People's Republic of China ~72: Caixia GUO;Dong LYU;Guosheng ZHAO;Jianhai LIU;Juan ZHANG;Juping FAN;Ming ZHAO;Xiaoyan LI;Yilin WANG;Yuhong ZHAO~

2023/05972 ~ Complete ~54:FOREST MONITORING METHOD FOR THE MEGASTIGMUS SABINAE ~71:Gansu Province Academy of Qilian Water Resource Conservation Forests Research Institute, No.3 East Ring Road, Ganzhou District, Zhangye City, Gansu Province, 734000, People's Republic of China ~72: Dong LYU;Guosheng ZHAO;Hu ZHAO;Jianhai LIU;Xiaobing XIE;Xiaohu YANG;Xingpeng ZHAO~

2023/05976 ~ Complete ~54:ARCHIVE MANAGEMENT SYSTEM BASED ON ARTIFICIAL INTELLIGENCE ~71:TANGSHAN UNIVERSITY, No. 11 University West Road, Hi-tech Zone, Tangshan, Hebei Province, People's Republic of China ~72: LIU Liwei;SONG Xiaoying;WU Jingxin~

2023/05979 ~ Complete ~54:CODING CHIP FOR DEVICE-INDEPENDENT QUANTUM KEY DISTRIBUTION ~71:ANQING NORMAL UNIVERSITY, No.1318 Jixian North Road, Yixiu District, Anqing City, Anhui Province, People's Republic of China;Institute of Semiconductors, Chinese Academy of Sciences, No.A35, Tsinghua East Road, Haidian District, Beijing, People's Republic of China ~72: PAN Pan;YOU Jin~

2023/05980 ~ Complete ~54:AN ECOLOGICAL RESTORATION DEVICE FOR IMPROVING WATER QUALITY ~71:Gansu Province Academy of Qilian Water Resource Conservation Forests Research Institute, No.3 East Ring Road, Ganzhou District, Zhangye City, Gansu Province, 734000, People's Republic of China ~72: Bin WANG;Erwen XU;Hao YUAN;Haojun MENG;Shunli WANG;Weijun ZHAO;Xiaoping SHI;Xiurong WU;Xue'e MA~

2023/05983 ~ Complete ~54:PRINTED DRINKING GLASS ~71:BOUCKAERT, Karel, 24 NON PAREILLE STREET, PAARL, SOUTH AFRICA, South Africa ~72: BOUCKAERT, Karel~ 33:ZA ~31:2022/05460 ~32:18/05/2022

2023/05985 ~ Complete ~54:A METHOD OF PREPARING NUTRITIOUS CHRYSALIS FERMENTED CEREAL POWDER ~71:Anhui Xiaolongren Food stuffs Co., Intersection of Wenyuan Road and Zhongshan Avenue,Yixiu District,AnqingCity,Anhui Province, 246133, People's Republic of China;Anqing Normal University, No. 1318, Jixian North Road, AnqingCity,Anhui Province, 246133, People's Republic of China ~72: Cui Jiahao;Hu Ting;Li Conghu;Li Zhixing~

2023/05995 ~ Complete ~54:IMPROVED CD30 TARGETING ANTIBODY DRUG CONJUGATES AND USES THEREOF ~71:FORSCHUNGSVERBUND BERLIN E.V., Rudower Chaussee 17, Germany;LUDWIG-MAXIMILIANS-UNIVERSITAET MUENCHEN, Geschwister-Scholl-Platz 1, Germany ~72: GERLACH, Marcus;HACKENBERGER, Christian;HELMA-SMETS, Jonas;KASPER, Marc-André;LEONHARDT, Heinrich;SCHUMACHER, Dominik~ 33:EP ~31:20216838.1 ~32:23/12/2020

2023/06001 ~ Complete ~54:POLYPEPTIDES COMPRISING IMMUNOGLOBULIN SINGLE VARIABLE DOMAINS TARGETING GLYPICAN-3 AND T CELL RECEPTOR ~71:ABLYNX NV, Technologiepark 21, Zwijnaarde, Belgium;SANOFI, 46 Avenue de la Grande, France ~72: BOUTTON, Carlo;DOMBRECHT, Evelyne;JANSSEN, Daniel;LAUKENS, Bram;MEONI, Paolo;PAO, Lily;PYPE, Jan;SCHOTTE, Peter;SERRUYS, Benedikte;VAN HOORICK, Diane;VINTEM, Ana Paula~ 33:US ~31:63/127,224 ~32:18/12/2020;33:EP ~31:20306633.7 ~32:21/12/2020

2023/06004 ~ Complete ~54:SYNERGISTIC HERBICIDAL COMPOSITIONS OF METAMIFOP ~71:PARIJAT INDUSTRIES (INDIA) PRIVATE LIMITED, M-77 (I & II Floor) M-Block Market Greater Kailash II, India ~72: ANAND, Shivraj;ANAND, Uday;DHIMAN, Sarvind~ 33:IN ~31:202111006475 ~32:16/02/2021

2023/06011 ~ Complete ~54:SYSTEMS AND METHODS FOR USING BACKSCATTER IMAGING IN PRECISION AGRICULTURE ~71:AMERICAN SCIENCE AND ENGINEERING, INC., 829 Middlesex Turnpike Billerica, Massachusetts 01821, United States of America ~72: AARON COUTURE;BASAK OZTAN~

2023/06014 ~ Complete ~54:METHOD OF PROCESSING GREEN TOBACCO LEAVES INTO CUT TOBACCO ~71:EARL JONES, Robert, Rua Rio de Janeiro, N 109, Bairro: Higienópolis, SANTA CRUZ DO SUL 96825-210, BRAZIL, Brazil ~72: EARL JONES, Robert~

2023/06017 ~ Complete ~54:SOLID FORMS OF A COMPOUND ~71:DENALI THERAPEUTICS INC., 161 Oyster Point Blvd, South San Francisco, United States of America ~72: HALE, CHRISTOPHER R. H.;RAN, YINGQING;SUDHAKAR, ANANTHA~ 33:US ~31:63/127,816 ~32:18/12/2020

2023/05968 ~ Provisional ~54:EXPANDABLE BULLET ~71:PEREGRINE BULLETS (PTY) LTD, 907 Hertzog Street, Rietfontein, South Africa ~72: NEL, Geral-dique;OBERHOLSTER, Alliwyn Johannes~

2023/05975 ~ Complete ~54:POST-DISMANTLEMENT SUPPORTING STRUCTURE FOR DEEP FOUNDATION PIT PROJECT AREA, AND CONSTRUCTION METHOD ~71:THE SECOND CONSTRUCTION ENGINEERING COMPANY LTD. OF CHINA CONSTRUCTION SECOND ENGINEERING BUREAU, No.0169 Qianhai Road, Nanshan Subdistrict, Nanshan District, Shenzhen, 518000, People's Republic of China ~72: BAO, Yibo;DI, Xingtao;HAO, Jianwei;LI, Hongpo;LI, Yawei;LIU, An;LIU, Zisong;MENG, Lijuan;ZHOU, Zhicheng~

2023/05987 ~ Complete ~54:MEDICINAL WINE FOR RELAXING TENDONS, INVIGORATING BLOOD CIRCULATION, DISPERSING SWELLING AND RELIEVING PAIN ~71:Wu, Huanxing, NO. 159, ZHANGQIAO VILLAGE, FEIYUN STREET, People's Republic of China ~72: Wu, Huanxing~

2023/05989 ~ Complete ~54:REDOX BY IN-SITU OZONATION ~71:COUNCIL FOR GEOSCIENCE, 280 Pretoria Street, South Africa ~72: NHLEKO, Olivia Lebogang Cathy;NOVHE, Obed Ntshengedzeni~

2023/05999 ~ Complete ~54:NUCLEIC ACIDS ENCODING ANCHOR MODIFIED ANTIBODIES AND USES THEREOF ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: GROMADA, Jesper;MASTAITIS, Jason;MCWHIRTER, John;MURPHY, Andrew J.;VORONINA, Vera~ 33:US ~31:63/129,893 ~32:23/12/2020;33:US ~31:63/219,402 ~32:08/07/2021

2023/06005 ~ Complete ~54:LONG-ACTING NERVE GROWTH FACTOR POLYPEPTIDES AND USES THEREOF ~71:STAIDSON (BEIJING) BIOPHARMACEUTICALS CO., LTD., No. 36, Jinghai Er Road, Beijing Economic-Technological Development Area, Beijing, 100176, People's Republic of China ~72: LEI ZHANG;PING LI~ 33:CN ~31:PCT/CN2020/129925 ~32:19/11/2020

2023/05966 ~ Provisional ~54:BUILDING MANAGEMENT SYSTEM AND METHOD ~71:ELIAS PARTNERS & SON (PTY) LTD, 20 Kenneth Kaunda Road (Northway Road), South Africa ~72: GOVENDER, Dhanasagren;MECHANICOS, Elias Vasilaki~

2023/05992 ~ Complete ~54:A GRAFTING METHOD FOR HETERO-POLLINATED MACADAMIA NUT VARIETIES WITH RAPID CROWN FORMATION RESULTS ~71:Institute of Tropical and Subtropical Cash Crops, Yunnan Academy of Agricultural Sciences, No. 518 Lancheng Road, Longyang District, Baoshan City, Yunnan Province, 678000, People's Republic of China ~72: Fan Yang;Hongming Liu;Hongxia Yang;Jianmei Dong;Jing Li;Xiaomeng Fu;Xinpu Lai;Yuxia Du~ 33:CN ~31:202310440426.8 ~32:23/04/2023

2023/05996 ~ Complete ~54:A COMPACT PORTABLE MULTIMODAL MICROSCOPY ~71:SCOPGENX PRIVATE LIMITED, 201, Maruti crystal, opp. Rajpath club s.g. highway, Bodakdev, Gujarat, Ahmedabad, 380054, India ~72: MEVADA, Jayeshkumar Sevantilal;PANDIT, Aniruddha Bhalchandra~ 33:IN ~31:202121000533 ~32:06/01/2021

2023/06003 ~ Complete ~54:A DEVICE AND METHOD FOR IMAGING UNDERGROUND FEATURES FROM A BOREHOLE ~71:HYPERTUNNEL IP LIMITED, 1ST FLOOR, THE PAVILLION VIEWPOINT, BASING VIEW, BASINGSTOKE HAMPSHIRE RG21 4RG, UNITED KINGDOM, United Kingdom ~72: FLANAGAN, Fergus;JORDAN, Steve;TURNER, Eliott~ 33:GB ~31:2017921.4 ~32:13/11/2020

2023/06010 ~ Complete ~54:BEDDING SYSTEM ~71:SHIGEKAZU NAKATSUGAWA, 603, 3-29-8, Nakakasai, Edogawa-ku, Tokyo 1340083, Japan ~72: SHIGEKAZU NAKATSUGAWA~ 33:JP ~31:2020-218672 ~32:28/12/2020

2023/06013 ~ Complete ~54:REGULATING VALVE ~71:NEWAY VALVE (SUZHOU) CO., LTD., No. 666, Taishan Road, High-tech Zone, Suzhou, People's Republic of China ~72: DONG, Xianjin;WU, Shirong;ZHOU, Wei~ 33:CN ~31:202211391392.X ~32:08/11/2022

2023/06016 ~ Complete ~54:METHODS OF SYNTHESIZING SUBSTITUTED PYRIDINONE-PYRIDINYL COMPOUNDS ~71:Aclaris Therapeutics, Inc., 640 Lee Road, Suite 200, WAYNE 19087, PA, USA, United States of America ~72: DECRESCENZO, Gary A.;SPRINGER, John Robert~ 33:US ~31:63/117,053 ~32:23/11/2020;33:US ~31:63/239,596 ~32:01/09/2021

2023/05973 ~ Complete ~54:A FORMULA OF ATTRACTANT FOR MEGASTIGMUS SABINAE AND ITS PREPARATION METHOD AND APPLICATION ~71:Gansu Province Academy of Qilian Water Resource Conservation Forests Research Institute, No.3 East Ring Road, Ganzhou District, Zhangye City, Gansu Province, 734000, People's Republic of China ~72: Dong LYU;Erwen XU;Guosheng ZHAO;Hu ZHAO;Jianhai LIU;Xiaobing XIE;Xingpeng ZHAO~

2023/05982 ~ Complete ~54:A QUANTITY SURVEYING DATA MANAGEMENT SYSTEM ~71:DU PLESSIS, Dieter, 27 La Boheme Road, Sonstraal Heights, South Africa ~72: DU PLESSIS, Dieter~

2023/05988 ~ Complete ~54:SOLID SUSTAINED RELEASE FORMULATIONS OF RANOLAZINE ~71:ELPEN S.A. Pharmaceutical Industry, 95, Marathonos Avenue, PIKERMI P.S. 19009, ATTIKIS, GREECE, Greece ~72: BAGOURAKIS, Georgios;PENTAFRAGKAS, Dimitrios~ 33:GR ~31:20220100475 ~32:07/06/2022

2023/05993 ~ Complete ~54:A COMPOSITE VEGETABLE PROTEIN BEVERAGE AND A PREPARATION METHOD ~71:XUZHOU VOCATIONAL COLLEGE OF INDUSTRIAL TECHNOLOGY, School of Chemical Engineering, Xuzhou Polytechnic, No. 1, Xiangwang Road, Gulou District, Xuzhou, Jiangsu, 221140, People's Republic of China ~72: LIU, Chunfen;MU, Jinchao;ZHANG, Xuguang~

2023/06000 ~ Complete ~54:TREATMENT OF HEMOPHILIA WITH FITUSIRAN ~71:GENZYME CORPORATION, 450 Water Street, Cambridge, MA, United States of America ~72: ANDERSSON, Shauna;BHAGUNDE, Pratik R.;CUI, Yue;IQBAL, Sajida;MEI, Baisong;POLOSKEY, Stacey~ 33:US ~31:63/121,973 ~32:06/12/2020;33:US ~31:63/272,629 ~32:27/10/2021;33:US ~31:63/275,344 ~32:03/11/2021

2023/06006 ~ Complete ~54:ROLLABLE ELECTRONIC DEVICE ~71:SAMSUNG ELECTRONICS CO., LTD., 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea ~72: BYOUNGUK YOON;JOONGYEON CHO;JUNGHYUN AHN;JUNYOUNG CHOI;MOONCHUL SHIN;SEUNGJOON LEE;YEONGGYU YOON;YOUNGMIN KANG~ 33:KR ~31:10-2020-0182461 ~32:23/12/2020;33:KR ~31:10-2021-0081692 ~32:23/06/2021

2023/06008 ~ Complete ~54:A CELL COUNTER AND DIAGNOSTIC DEVICE ~71:MICROBIOSENSOR LIMITED, The Manchester Incubator Building Grafton Street Manchester Greater Manchester M13 9XX, United Kingdom ~72: CHRISTOPHER KNIGHT;CURTIS DOBSON;DARREN KELL;DUNCAN HENDERSON;MARTIN SMITH;MICHAEL GORDON BARKER;NICHOLAS GODDARD;NISHAL GOVINDJI-BHATT~ 33:GB ~31:2018831.4 ~32:30/11/2020

2023/06015 ~ Complete ~54:ROTARY DEVICE FOR TREATING MOLTEN METAL ~71:Foseco International Limited, 1 Midland Way, Central Park, BARLBOROUGH LINKS S43 4XA, DERBYSHIRE, UNITED KINGDOM, United Kingdom ~72: HRABINA, David;POWELL, Colin~ 33:EP ~31:20215161.9 ~32:17/12/2020

2023/05965 ~ Provisional ~54:TREATMENT OF PSORIASIS ~71:HASSEN, Mohammed Ameen, 1315 Illovo Central, 70 Melville Road, Illovo, Johannesburg 2196, Gauteng, SOUTH AFRICA, South Africa ~72: HASSEN, Rafeek~

2023/05986 ~ Complete ~54:METHOD FOR IN VITRO TISSUE CULTURE, PROPAGATION AND PRESERVATION OF HUPERZIA SERRATE (THUNB) TREV. ~71:JIANGXI NORMAL UNIVERSITY, NO. 99 ZIYANG AVENUE, People's Republic of China ~72: DAI, Liangfang;LUO, Xiangdong;YANG, Yan~

2023/05990 ~ Complete ~54:METHOD FOR REMEDIATING PHTHALATE-CONTAMINATED SOIL BY GENERATING HYDROGEN PEROXIDE THROUGH PULSE ELECTROCHEMISTRY ~71:Chongqing Research Academy of Eco-environmental Sciences, No. 252, Qishan Road, Ranjiaba, Yubei District, Chongqing, 401147, People's Republic of China;Chongqing University of Science and Technology, No. 20, East University Town Road, Shapingba District, Chongqing, 401331, People's Republic of China ~72: CHENG, Min;HE, Huichao;KE, Gaili;LI, Yutong;LIU, Kun;YANG, Shan;YU, Hai~

2023/05997 ~ Complete ~54:BRACKET BLOCKING UMBRELLA FOR PLEURAL FISTULA ~71:HEBEI CHEST HOSPITAL, No.372 Shengli North Street, Qiaodong District, Shijiazhuang City, Hebei Province, 050041, People's Republic of China ~72: LI Xiaoyu;MENG Jiatian;MENG Zili;ZHANG Zhihua~ 33:CN ~31:2021113678427 ~32:18/11/2021

2023/06002 ~ Complete ~54:REACTOR FOR CARRYING OUT A CHEMICAL REACTION ~71:BASF SE, Carl-Bosch-Str. 38, Germany;LINDE GMBH, Dr.-Carl-von-Linde-Strasse 6-14, Germany ~72: DELHOMME-NEUDECKER, Clara;HOFSTÄTTER, Martin;POSSELT, Heinz;ZELLHUBER, Mathieu~ 33:EP ~31:20206147.9 ~32:06/11/2020

2023/06009 ~ Complete ~54:STEEL COMPOSITION, WROUGHT ARTICLE AND MANUFACTURING METHOD OF A SEAMLESS PRESSURE VESSEL FOR COMPRESSED GAS ~71:DALMINE S.P.A., 1, Piazza Caduti 6 Luglio 1944, 24044, Dalmine (Bergamo), Italy ~72: ERICK ARTURO ESCORZA MARQUEZ;GIANLUCA BASSANINI;MATTEO ORTOLANI;MICHELE SILEO;PAOLO BORTOT~ 33:NL ~31:2027006 ~32:30/11/2020

2023/05977 ~ Complete ~54:A SELF-SUPPORTING HIGH-ENTROPY OXIDE/GRAPHENE COMPOSITE MATERIAL AND ITS PREPARATION METHOD AND APPLICATION ~71:Taiyuan University of Technology, No.79 Yingze West Street, Taiyuan City, Shanxi Province, 030024, People's Republic of China ~72: Huijun LI;Xiaomin WANG;Yongzhen WANG;Zhenxin ZHAO~ 33:CN ~31:2022112292838 ~32:09/10/2022

2023/05971 ~ Complete ~54:DEVICE FOR COLLECTING ADULT WASPS OF THE MEGASTIGMUS SABINAE ~71:Gansu Province Academy of Qilian Water Resource Conservation Forests Research Institute, No.3 East Ring Road, Ganzhou District, Zhangye City, Gansu Province, 734000, People's Republic of China ~72: Dong LYU;Erwen XU;Guosheng ZHAO;Hu ZHAO;Jianhai LIU;Xiaobing XIE;Xingpeng ZHAO;Yanxia WANG;Yuxin MIAO~

2023/05974 ~ Complete ~54:SMOKE EXHAUST SYSTEM FOR GAS BOILER IN PLANT ROOM ~71:THE SECOND CONSTRUCTION ENGINEERING COMPANY LTD. OF CHINA CONSTRUCTION SECOND ENGINEERING BUREAU, No.0169 Qianhai Road, Nanshan Subdistrict, Nanshan District, Shenzhen, 518000, People's Republic of China ~72: CHANG, Yuehui;GONG, Xiugang;HAN, Xuling;KONG, Mingliang;LI, Peng;LI, Sai;YANG, Kun;ZONG, Luchao~

2023/05978 ~ Complete ~54:A SOIL SAMPLE COLLECTION DEVICE USED FOR SOIL FERTILITY DETECTION ~71:Gansu Agricultural University, No.1 Yingmen Village, Anning District, Lanzhou City, Gansu Province, 730070, People's Republic of China ~72: Jun WU~

. - APPLIED ON 2023/06/07 -

2023/06022 ~ Complete ~54:APPLICATION OF ANTIBACTERIAL PEPTIDE LRGG IN PREPARING ANTIBACTERIAL SYNERGIST OF FLUOROQUINOLONES ~71:Jilin Agricultural University, No.2888 Xincheng Street, Changchun City, Jilin Province, People's Republic of China ~72: CUI Qi;GUAN Lili;HE Chengguang;KONG Lingcong;LIU Lei;MA Hongxia;YU Handong;ZHANG Haipeng~ 33:CN ~31:2023105569573 ~32:17/05/2023

2023/06027 ~ Complete ~54:TELESCOPIC MECHANISM FOR COATING CATHODE OF IRREGULAR CURVED-SURFACE WORKPIECE ~71:Hunan Yufeng Vacuum Science and Technology Co., Ltd, No. 2, Dazhong East Road, Jiuhua Demonstration Zone, Xiangtan City, Hunan Province, 411100, People's Republic of China ~72: LIU, Guoli;ZHOU, Yi~ 33:CN ~31:2022113817960 ~32:07/11/2022

2023/06031 ~ Complete ~54:APPLICATION OF SANGUINARINE HYDROCHLORIDE IN PREPARING DRUGS FOR INHIBITING STAPHYLOCOCCUS AUREUS INFECTION ~71:NORTHEAST AGRICULTURAL UNIVERSITY, COLLEGE OF VETERINARY MEDICINE, NORTHEAST AGRICULTURAL UNIVERSITY, 600 CHANGJIANG ROAD, People's Republic of China ~72: DONG, ChunLiu;LI, Yanhua;LIU, Yanyan;QU, Qianwei;ZHENG, Yadan~

2023/06036 ~ Complete ~54:A HEIGHT-ADJUSTABLE LEVELING MACHINE FOR AGRICULTURAL PLANTING ~71:Shihezi University, Shibei Fourth Road, Shihezi City, Xinjiang Uygur Autonomous Region, 832003, People's Republic of China ~72: Liqiao Li;Zongyu Gao~

2023/06041 ~ Complete ~54:CONFIGURABLE ELECTROCRUSHING MINING APPARATUS ~71:SDG LLC, 2248 MERIDIAN BLVD., SUITE H, MINDEN, NEVADA 89423, USA, United States of America ~72: MOENY, William, M.;PRONKO, Steven, G. E.;SMALL, James, G.~ 33:US ~31:63/114,915 ~32:17/11/2020

2023/06044 ~ Complete ~54:PESTICIDAL GENES AND METHODS OF USE ~71:AGBIOME, INC., P.O. Box 14069, Durham, North Carolina, 27709, United States of America ~72: FRANCOIS TORNEY;JESSICA PARKS;REBECCA E THAYER;REBEKAH DETER KELLY~ 33:US ~31:63/117,797 ~32:24/11/2020;33:US ~31:63/140,058 ~32:21/01/2021

2023/06049 ~ Complete ~54:SYNTHESIS GAS PRODUCTION FROM CO2 AND STEAM FOR SYNTHESIS OF FUELS ~71:TOPSOE A/S, Haldor Topsøes Allé 1, 2800, Kgs. Lyngby, Denmark ~72: KIM AASBERG-PETERSEN;PETER MØLGAARD MORTENSEN~ 33:EP ~31:21153815.2 ~32:27/01/2021;33:EP ~31:21185834.5 ~32:15/07/2021

2023/06051 ~ Complete ~54:QUICK FREEZE PALLET RACKS WITH VARIABLE LOUVERED DOORS ~71:TIPPMANN CONSTRUCTION, LLC, 9009 Coldwater Rd., Fort Wayne, Indiana, 46825, United States of America ~72: BRANDON L WELLMAN;CALEB P HERBER;JOSHUA T TIPPMANN~

2023/06059 ~ Complete ~54:ANTI-CD19 COMBINATION THERAPY ~71:Incyte Corporation, 1801 Augustine Cut-Off, WILMINGTON 19803, DE, USA, United States of America;MorphoSys AG, Semmelweisstrasse 7, PLANEGG 82152, GERMANY, Germany ~72: BRUGGER, Wolfram;FINGERLE-ROWSON, Günter;MANZKE, Oliver;SEGUY, Francis~ 33:EP ~31:20211862.6 ~32:04/12/2020;33:EP ~31:21158806.6 ~32:23/02/2021;33:EP ~31:21163696.4 ~32:19/03/2021;33:EP ~31:21172671.6 ~32:07/05/2021;33:EP ~31:21177336.1 ~32:02/06/2021;33:EP ~31:21205447.2 ~32:29/10/2021

2023/06018 ~ Provisional ~54:KEYLESS LOCKING MECHANISM ~71:David Victor Opie, 84 coligny str,, South Africa;David Victor Opie, 84 coligny str,, South Africa ~72: David Victor Opie~

2023/06021 ~ Provisional ~54:PLANT MONITORING DEVICE, SYSTEM, AND METHOD OF MONITORING A PLANT ~71:DIVISION X (PTY) LTD, GROUND FLOOR, BLOCK D, 676 ON GALLAGHER, South Africa ~72: DELATE, Bryan;HURDEEN, Rikash Ramrajh;Inventor(s): 3 HURDEEN, Rikash Ramrajh DELATE, Bryan UNSER, Evan~

2023/06026 ~ Complete ~54:METHOD FOR EXTRACTING PLEUROTUS ERYNGII IMMUNE PROTEIN AND APPLICATION THEREOF ~71:Jiangsu Alphay Bio-technology Co., Ltd., No. 68-A, Zhongyang Road, NETDA, Nantong City, Jiangsu Province, 226009, People's Republic of China;Jiangsu Alphay Science Institute of Medicinal Fungi, No. 83, Ruixing Road, Zhuhang Street, NETDA, Nantong City, Jiangsu Province, 226000, People's Republic of China ~72: BAO, Zhenwei;CHEN, Hui;CHEN, Junhua;HUANG, Tiantian;WU, Weijie;XU, Chunhua;ZHAO, Haijun~

2023/06032 ~ Complete ~54:PREPARATION METHOD AND APPLICATION OF LIQUORICE EXTRACT ~71:NORTHEAST AGRICULTURAL UNIVERSITY, COLLEGE OF VETERINARY MEDICINE, NORTHEAST AGRICULTURAL UNIVERSITY, 600 CHANGJIANG ROAD, People's Republic of China ~72: DONG, ChunLiu;LI, Yanhua;LIU, Yanyan;QU, Qianwei;ZHANG, Zhiyun;ZHENG, Yadan~

2023/06039 ~ Complete ~54:XYLANASE VARIANTS ~71:AB ENZYMES OY, Tykkimäentie 15b, Finland ~72: AHOLA, Pihla;JUNTUNEN, Kari;LANGFELDER, Kim;MÜLLER, Eugen;PALOHEIMO, Marja;PURANEN, Terhi;SAVOLAINEN, Jukka;TAIPALUS, Pasi;TURUNEN, Ossi~ 33:EP ~31:20217335.7 ~32:28/12/2020

2023/06052 ~ Complete ~54:STACKABLE AND ADJUSTABLE MEMBRANE MODULE ~71:CTX, LLC, 900 Technology Park Drive, Suite 100, United States of America ~72: Stanton Russell SMITH~ 33:US ~31:63/199,186 ~32:11/12/2020

2023/06057 ~ Complete ~54:AGRICULTURAL FORMULATION COMPRISING AT LEAST ONE BACTERIAL STRAIN B. SAFENSIS RGM 2450, AND/OR A BACTERIAL STRAIN B. SIAMENSIS RGM 2529 AND AGRICULTURAL EXCIPIENTS; USE OF THE FORMULATION AND METHOD FOR STIMULATING GROWTH AND/OR INCREASING CROP YIELDS AND/OR PROTECTING CROPS AGAINST DISEASES AND PESTS ~71:Blanes SPA, Calle Virgilio Figueroa 6641, SANTIAGO 7570170, LAS CONDES, CHILE, Chile ~72: DARDÓN FRESSE DE ÁVALOS, Elena María;DELGADO HERNÁNDEZ, Verónica Melissa;GARCÍA-GALLONT, Ignacio Viteri;MONTENEGRO MELGAR, Edgar Armando;PINEDA MIJANGOS, Wilson Guillermo;RAMAZZINI SANTOS, Héctor Ronaldo;VITERI ARRIOLA, Francisco~

2023/06019 ~ Provisional ~54:TRACK PAD WITH FORCE SENSING AND HAPTIC FEATURES ~71:AZOTEQ HOLDINGS LIMITED, c/o Spyrou Kyprianou Avenue 20, Chapo Central, Cyprus ~72: BRUWER, Frederick Johannes;MELLET, Dieter Sydney-Charles~

2023/06025 ~ Complete ~54:METHOD FOR PREPARING GRIFOLA FRONDOSA EXOPOLYSACCHARIDES ~71:Jiangsu Alphay Bio-technology Co., Ltd., No. 68-A, Zhongyang Road, NETDA, Nantong City, Jiangsu Province, 226009, People's Republic of China;Jiangsu Alphay Science Institute of Medicinal Fungi, No. 83, Ruixing Road, Zhuhang Street, NETDA, Nantong City, Jiangsu Province, 226000, People's Republic of China ~72: CHEN, Hui;CHEN, Junhua;HUANG, Tiantian;JIANG, Yi;KUANG, Qun;LIU, Guangjian;QUAN, Weifeng;TIAN, Zhenle;WANG, Jie;XU, Chunhua~

2023/06034 ~ Complete ~54:PREPARATION METHOD AND APPLICATION OF FOLIUM PERILLAE ULTRAFINE POWDER ~71:NORTHEAST AGRICULTURAL UNIVERSITY, COLLEGE OF VETERINARY

MEDICINE, NORTHEAST AGRICULTURAL UNIVERSITY, 600 CHANGJIANG ROAD, People's Republic of China ~72: DONG, ChunLiu;LI, Yanhua;LIU, Yanyan;QU, Qianwei;ZHANG, Zhiyun;ZHENG, Yadan~

2023/06042 ~ Complete ~54:LEACHING OF PRECIOUS AND CHALCOPHILE METALS ~71:MINING AND PROCESS SOLUTIONS PTY LTD, 2A PRINCES STREET, CAULFIELD NORTH, VICTORIA, AUSTRALIA, Australia ~72: ABDALLA, Elsayed, Abdelrady, Oraby;EKSTEEN, Jacobus, Johannes~ 33:AU ~31:2020904261 ~32:18/11/2020

2023/06048 ~ Complete ~54:ENHANCED WOMEN'S REUSABLE ABSORBENT PANTY ~71:JOCKEY INTERNATIONAL, INC., 2300 60th Street, Kenosha, Wisconsin, 53140, United States of America ~72: MICHELLE FRANCES CARPENTER~ 33:US ~31:17/103,122 ~32:24/11/2020

2023/06056 ~ Complete ~54:AMPHIPHILIC ALKOXYLATED POLYAMINES AND THEIR USES ~71:BASF SE, Carl-Bosch-Strasse 38, LUDWIGSHAFEN AM RHEIN 67056, GERMANY, Germany;The Procter & Gamble Company, One Procter & Gamble Plaza, CINCINNATI 45202, OH, USA, United States of America ~72: BENLAHMAR, Ouidad;EBERT, Sophia;ENGERT, Susanne Carina;GORCZYNSKA-COSTELLO, Katarzyna;HUELSKOETTER, Frank;NIEBERLE, Joerg;SAVEYN, Pieter Jan Maria;SI, Gang;STERGIOPOULOU, Natalia;TUERK, Holger;VANDERMEULEN, Guido;WOHLMUTH, Catharina~ 33:EP ~31:20216952.0 ~32:23/12/2020;33:EP ~31:20217099.9 ~32:23/12/2020;33:EP ~31:21176904.7 ~32:31/05/2021;33:EP ~31:21176906.2 ~32:31/05/2021

2023/06061 ~ Complete ~54:PE LINE PROTECTION SYSTEM FOR POWER UTILIZATION AND CHARGING APPARATUS, AND POWER UTILIZATION AND CHARGING APPARATUS ~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 ~31:202023059783.0 ~32:17/12/2020

2023/06028 ~ Complete ~54:EXPERIMENTAL DETECTION DEVICE FOR CONCRETE IMPACT RESISTANCE ~71:XUZHOU COLLEGE OF INDUSTRIAL TECHNOLOGY, No. 1 Xiangwang South Road, Gulou District, Xuzhou City, Jiangsu Province, 221140, People's Republic of China ~72: CHENG Cheng;LI Xingzhen~

2023/06033 ~ Complete ~54:SELF-ORGANIZING AND SELF-CLEANING DYNAMIC INTELLISENSE SHOW WINDOW AND ITS DISPLAY METHOD ~71:Yancheng Polytechnic College, 285 Jiefang South Road, Yancheng City, Jiangsu Province, People's Republic of China ~72: QIAN Wei;QIU Qinyi;WANG Qianwen;XING Jingjing;XU Muhua;XU Weiwei;ZHOU Bin~

2023/06038 ~ Complete ~54:A WIND POWER TOWER CYLINDER AND A CLEAN ENERGY POWER GENERATION DEVICE ~71:Shihezi University, Shibei Fourth Road, Shihezi City, Xinjiang Uygur Autonomous Region, 832003, People's Republic of China ~72: Liqiao Li;Zongyu Gao~

2023/06046 ~ Complete ~54:POLYPEPTIDES TARGETING DR4 AND/OR DR5 AND RELATED COMPOSITIONS AND METHODS ~71:THE HOSPITAL FOR SICK CHILDREN, 555 University Avenue, Toronto, Ontario, M5G 1X8, Canada ~72: EDURNE RUJAS DIEZ;JEAN-PHILIPPE JULIEN~ 33:US ~31:63/118,306 ~32:25/11/2020

2023/06053 ~ Complete ~54:IMMUNOCYTOKINE FOR ACTIVATING HUMAN IL-10RA RECEPTOR AND USE THEREOF ~71:JOINT STOCK COMPANY "BIOCAD", ul. Svyazi, d. 38, Str, 1, pomeshch. 89 p. Strelna, Russian Federation ~72: AGEEV, Sergei Andreevich;EVDOKIMOV, Stanislav Rudolfovich;EVDOKIMOVSKAIA, Iuliia Viktorovna;IAKOVLEV, Pavel Andreevich;KOLOSOVA, Elena Sergeevna;KONONOV, Aleksey Vladimirovich;MOROZOV, Dmitry Valentinovich;SMIRNOVA, Iana Andreevna;SOLOVYEV, Valery Vladimirovich;TSYMPILOV, Vladimir Sergeevich~ 33:RU ~31:2020140807 ~32:10/12/2020

2023/06058 ~ Complete ~54:JAK1 PATHWAY INHIBITORS FOR THE TREATMENT OF VITILIGO ~71:Incyte Corporation, 1801 Augustine Cut-Off, WILMINGTON 19803, DE, USA, United States of America ~72: BROWN, Kurt Andrew;DOS SANTOS, Leandro Luiz;HOWELL, Michael D.;KUO, Fiona;LEE, James;RUMBERGER, Beth;SMITH, Paul~ 33:US ~31:63/122,574 ~32:08/12/2020;33:US ~31:63/246,688 ~32:21/09/2021

2023/06020 ~ Provisional ~54:BACKCHAT: A SOFTWARE PLATFORM PROVIDING TRANSCRIPTION AND TRANSLATION SERVICES THROUGH A WHATSAPP INTERFACE ~71:Serendra Reddy, 39 Durnford Avenue, South Africa ~72: Serendra Reddy~ 33:ZA ~31:1 ~32:06/06/2023

2023/06023 ~ Complete ~54:TETRAVALENT DENGUE INACTIVATED VACCINE ~71:Army Medical University, Gaotanyan street no.30, Shapingba district, Chongqing, 400038, People's Republic of China ~72: Guo Hongxia;Hua Dong;Li Jintao;Liu Minchi~ 33:CN ~31:2022112959536 ~32:21/10/2022

2023/06029 ~ Complete ~54:SHREDDING ARRANGEMENT ~71:BRAND GUARD (PTY) LTD, 179 Oakland Hill Crescent, Eagle Canyon Golf Estate, Honeydew, South Africa ~72: WILLCOCKS, William~

2023/06037 ~ Complete ~54:A POWER DISTRIBUTION CONTROL DEVICE AND A POWER ENERGY SUPPLY SYSTEM ~71:Shihezi University, Shibei Fourth Road, Shihezi City, Xinjiang Uygur Autonomous Region, 832003, People's Republic of China ~72: Liqiao Li;Zongyu Gao~

2023/06045 ~ Complete ~54:PULSED ELECTRIC FIELD TREATMENT OF BIOLOGICAL CELLS ~71:BÜHLER AG, Gupfenstrasse 5, 9240, Uzwil, Switzerland ~72: LEANDRO BUCHMANN~ 33:EP ~31:20212860.9 ~32:09/12/2020

2023/06050 ~ Complete ~54:PLUG FOR INSERTION INTO THE NOSE OR EAR OF A SUBJECT FOR ADMINISTERING A FLUID THERAPEUTIC AGENT ~71:HOGNE AB, Hästholmsvägen 28, 131 30, Nacka, Sweden ~72: PETER ÅHNBLAD;SUSANNE ÅHNBLAD~ 33:US ~31:17/095,844 ~32:12/11/2020

2023/06055 ~ Complete ~54:HYDRAULIC BINDER WITH LOW CARBON FOOTPRINT AND HIGH EARLY STRENGTH ~71:IMERTECH, 43 Quai de Grenelle, France ~72: BENEVENUTI, Barbara;EL HOUSSEINI, Sarra;FRYDA, Hervé;LOTHENBACH SCHMID, Barbara Elisabeth;SCRIVENER, Karen~ 33:EP ~31:20306515.6 ~32:08/12/2020;33:EP ~31:21306126.0 ~32:18/08/2021

2023/06060 ~ Complete ~54:ROR1-SPECIFIC VARIANT ANTIGEN BINDING MOLECULES ~71:ALMAC DISCOVERY LIMITED, Almac House 20 Seagoe Industrial Estate, United Kingdom ~72: BARELLE, Caroline Jane;COTTON, Graham John;KAMENSKI, Andrei;KOVALEVA, Marina;PORTER, Andrew Justin Radcliffe;THOM, Jennifer;TRUMPER, Paul Richard~ 33:GB ~31:2020154.7 ~32:18/12/2020

2023/06063 ~ Provisional ~54:ESEL BIOMASS WATER HEATER ~71:Jaco Du Plessis, 38 Farrow Avenue, South Africa ~72: Jaco Du Plessis~

2023/06024 ~ Complete ~54:INTELLIGENT SORTING METHOD FOR COAL AND GANGUE ~71:SHANDONG FANGDA ENGINEERING CO. , LTD, No. 133, Zikuang Road, Zichuan District, Zibo City, Shandong Province, 255100, People's Republic of China ~72: DING, Xiaoqi;FENG, Wenhui;MIAO, Kang;WANG, Shiqiang;WANG, Tao;ZHANG, Kui;ZHANG, Lei;ZHI, Junmin;ZHU, Xiaogang~

2023/06030 ~ Complete ~54:USE OF TRIPTERINE IN PREPARATION OF DRUG FOR INHIBITING STAPHYLOCOCCUS AUREUS ~71:NORTHEAST AGRICULTURAL UNIVERSITY, COLLEGE OF VETERINARY MEDICINE, NORTHEAST AGRICULTURAL UNIVERSITY, 600 CHANGJIANG ROAD, People's Republic of

China ~72: DONG, ChunLiu;LI, Yanhua;LIU, Yanyan;QU, Qianwei;YUAN, Zhongwei;ZHANG, Zhiyun;ZHAO, Mengmeng;ZHENG, Yadan~

2023/06035 ~ Complete ~54:MONITORING DATA PROCESSING METHODS, TREND FORECASTING METHODS AND SYSTEMS ~71:CHINA MERCHANTS CHONGQING COMMUNICATIONS TECHNOLOGY RESEARCH & DESIGN INSTITUTE CO., LTD., No. 33 Xuefu Avenue, Nan'an District, Chongqing, 400067, People's Republic of China ~72: Feng XU;He HUANG;Hejun CHAI;Ling TAN;Shengchuan TANG;Xiaosong ZHANG;Xueming JIA;Youping MAO;Zhongshuai LIU;Zongling YAN~

2023/06040 ~ Complete ~54:PRODUCTION OF ALKALI METAL CARBONATES AND/OR BICARBONATES FROM ALKALI METAL SULPHATES ~71:UNIVERSITY OF LIMPOPO, Turfloop Campus, Tzaneen Road, Mankweng, Sovenga 0727, SOUTH AFRICA, South Africa;UNIVERSITY OF PRETORIA, Lynnwood Road, Hillcrest, PRETORIA 0002, SOUTH AFRICA, South Africa ~72: MAREE, Johannes Philippus;VAN VUUREN, David Steyn~ 33:ZA ~31:2020/07178 ~32:18/11/2020

2023/06043 ~ Complete ~54:METHODS OF TREATMENT OF LIVER FAILURE ~71:GENFIT, 885 AVENUE EUGÈNE AVINÉE, 59120 LOOS, FRANCE, France ~72: DEBAECKER, Simon;DELATAILLE, Philippe;FOUCART, Corinne;HANF, Rémy;LEGRY, Vanessa;STANKOVIC VALENTIN, Nicolas;WALCZAK, Robert~ 33:EP ~31:20306396.1 ~32:17/11/2020;33:EP ~31:21199623.6 ~32:28/09/2021

2023/06047 ~ Complete ~54:CATALYTIC HEAT EXCHANGE REACTOR WITH HELICAL FLOW ~71:TOPSOE A/S, Haldor Topsøes Allé 1, 2800, Kgs. Lyngby, Denmark ~72: ANDERS HELBO HANSEN;KRISTIAN BJARKLEV;MICHAEL BOE~ 33:EP ~31:21153969.7 ~32:28/01/2021

2023/06054 ~ Complete ~54:COCRYSTAL OF A CDK INHIBITOR ~71:AURIGENE DISCOVERY TECHNOLOGIES LTD., 39-40 Hosur Road KIADB Industrial Area, Electronic City Phase II, Electronic City, India ~72: BADIGER, Sangamesh Eshwarappa;BHAT, Uday;BOKALIAL, Ranadeep;DEVANATHAN, Krishnaswamy~ 33:IN ~31:202041055174 ~32:18/12/2020

2023/06064 ~ Provisional ~54:FOOD WASTE RECYCLING SYSTEM ~71:craig wade bartlett, 2205 Heron Road, South Africa ~72: craig wade bartlett~

. - APPLIED ON 2023/06/08 -

2023/06068 ~ Complete ~54:SEEDLING RAISING DEVICE FOR BETA VULGARIS ~71:Inner Mongolia Academy of Agricultural and Animal Husbandry Sciences, No. 22, Zhaojun Road, Yuquan District, Hohhot City, Inner Mongolia, 010031, People's Republic of China ~72: GUO, Xiaoxia;HAN, Kang;HUANG, Chunyan;JIAN, Caiyuan;KONG, Dejuan;LI, Zhi;LIANG, Yahui;LIU, Jia;LIU, Qingpeng;REN, Huimin;SU, Wenbin;TIAN, Lu;WANG, Zhenzhen;ZHANG, Peng;ZHANG, Xiangqian;ZHOU, Lei~ 33:CN ~31:2023205284076 ~32:17/03/2023

2023/06093 ~ Complete ~54:POWER PRODUCTION SYSTEM. ~71:Sizable Energy S.r.l., Via Giorgio Washington, 96, c/o Milano Multiphysics, MILANO (MI) 20146, ITALY, Italy ~72: AUFIERO, Manuele~ 33:IT ~31:102020000029351 ~32:01/12/2020

2023/06106 ~ Complete ~54:HIGH-EFFICIENT SWIFT STEPLESS LAYERING WATER INTAKING GATE DEVICE ~71:CHINA POWER CONSTRUCTION GROUP GUIYANG SURVEY, DESIGN AND RESEARCH INSTITUTE CO., LTD, No. 16, Xingqian Road, Guanshanhu District, Guiyang, People's Republic of China ~72: Daren DENG;Fan CHEN;Haijun LAO;Hezuo ZHANG;Hongyou MU;Taoping YANG;Wei GAO;Xianzhu SHEN;Xin WANG;Xingen WANG;Yi XU;Zaixing ZHAO;Zhenggang ZHAN~ 33:CN ~31:202210043984.6 ~32:14/01/2022

2023/06069 ~ Complete ~54:INTRAORAL VISUALIZATION MULTIPURPOSE TREATMENT APPARATUS ~71:Hainan Medical University, No. 3 Xueyuan Road, Longhua District, Haikou City, Hainan, People's Republic of China ~72: Jie ZHOU;Linyi LI;Qing YUAN;Siqi LI;Xuejing LIN;Yingying LI;Yongxin CHEN;Zhuling GUO~ 33:CN ~31:202310241355.9 ~32:14/03/2023

2023/06078 ~ Complete ~54:LANGUAGE SKILLS TRAINING EQUIPMENT ~71:Henan vocational college of agriculture, 38 Qingnian West Road, Zhongmou, Zhengzhou, People's Republic of China ~72: Li Heman;Ma Qianqian;Mei Gengjun;Mei Guijun;Shi Shuanghui;Tian Titi;Wang Qingyue;Wang Yixuan;Xiao Yanyun;Xing Fangfang;Xu Liping;Zhang Mengzhe~

2023/06084 ~ Complete ~54:A GOLF CLUB HEAD CLEANER ~71:CONRADIE FAMILY TRUST, No. 11 Begerac Close, Bel Aire, South Africa ~72: CONRADIE, Mila;CONRADIE, Philippus Möller;JOUBERT, Schalk Willem;VAN RENSSEN, Gerrit~

2023/06095 ~ Complete ~54:ELECTRONIC DEVICE INCLUDING COIL ANTENNA ~71:SAMSUNG ELECTRONICS CO., LTD., 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea ~72: CHANHEE OH;HYUNJU HONG;SEUNGBUM CHOI;SEYOON BAE;SUNGSOO KIM;YONGYOUN KIM~ 33:KR ~31:10-2020-0179908 ~32:21/12/2020

2023/06105 ~ Complete ~54:HEART-NOURISHING AND NERVE-SOOTHING PHARMACEUTICAL COMPOSITION AND METHOD FOR PREPARATION THEREOF AND APPLICATION THEREOF ~71:JIANGSU PROVINCE HOSPITAL OF TCM, No. 155, Hanzhong Road, Qinhuai District Nanjing, Jiangsu, 210029, People's Republic of China ~72: LIQIN NING;MIN ZHAO;SHENLIN LIU;YACHUN SHU~ 33:CN ~31:202011250776.0 ~32:11/11/2020

2023/06066 ~ Provisional ~54:OZONE DELIVERY DEVICE FOR QUADRUPED MAMMALS ~71:PEDRA, Gail, Denise, PLOT 31 MNANDI AH, CENTURION, 0157, South Africa ~72: PEDRA, Gail, Denise~

2023/06072 ~ Complete ~54:DUAL PROTECTIVE DOORS FOR CONSTRUCTION ELEVATORS AND FLOOR CONSTRUCTION ENTRANCES ~71:Tangshan University, No. 9 Daxue West Road, Lubei District, Tangshan City, Hebei Province, 063010, People's Republic of China ~72: Jiaxin Liu;Qiang Li;Shang Wang;Weihua Ma;Yurui Men;Zhidong Zhu~ 33:CN ~31:2023103543687 ~32:04/04/2023

2023/06083 ~ Complete ~54:CONSTRUCTION METHOD FOR THE MAIN BRIDGE STEEL STRUCTURE ~71:CHINA RAILWAY FIRST GROUP BRIDGE ENGINEERING CO., LTD., No. 63 Xitong Road, Linwei District, Weinan, Shaanxi Province, 714000, People's Republic of China;CHINA RAILWAY FIRST GROUP CO., LTD., No. 1 Yanta North Road, Beilin District, Xi 'an, Shaanxi Province, 710054, People's Republic of China;EIGHTH ENGINEERING COMPANY LTD. OF CHINA RAILWAY FIRST GROUP, 99 Baiguo Road, Yubei District, Chongqing, 401120, People's Republic of China ~72: BI, Zhanglong;CHEN, Qingyun;CHENG, Xiangyang;HAO, Linjie;QIN, Xiaodong;SHEN, Jie;SHI, Zhongpan;TAO, Qianqian;XING, Liao;XU, Hong;XUAN, Xinpeng;ZHANG, Guanjian;ZHANG, Guoqiang;ZHAO, Bin;ZHAO, Zexu;ZHUO, Lei~ 33:CN ~31:202310395499X ~32:13/04/2023

2023/06102 ~ Complete ~54:CELL PENETRATING PEPTIDE MEDIATED RNA TRANSDUCTION WITHIN INSECT CELLS ~71:PIONEER HI-BRED INTERNATIONAL, INC., 7100 N.W. 62nd Avenue, P.O. Box 1014, Johnston, Iowa, 50131-1014, United States of America ~72: COURTNEY ANNE DAVIS-VOGEL;EDWIN J MENDEZ;JAYAKUMAR PON SAMUEL;KATHERINE A THILGES~ 33:US ~31:63/126,087 ~32:16/12/2020

2023/06082 ~ Complete ~54:MUD CIRCULATION DEVICE FOR PILE FOUNDATION CONSTRUCTION IN WATER ~71:China Railway Seventh Group Co., LTD, No.1225,East-Hanghai Road, Zhengzhou, Henan, 450016, People's Republic of China;Overseas Company of China Railway Seventh Bureau Group Co., Ltd., Zone B and D, 3rd Floor, No. 1225 Hanghai East Road, Zhengzhou Economic and Technological Development Zone,

Zhengzhou, Henan, 450016, People's Republic of China ~72: GUO, Dongdong;LI, Songquan;MAO, Kunlin;SUN, Jianguo;TAO, Yepeng;WANG, Peng;ZONG, Qingwei~ 33:CN ~31:202321275594.8 ~32:24/05/2023

2023/06088 ~ Complete ~54:INOSITOL HEXAKISPHOSPHATE ANALOGUES FOR TREATMENT OF CALCIFICATION ASSOCIATED KIDNEY DISEASES ~71:ETH ZÜRICH, Rämistrasse 101, Switzerland;VIFOR (INTERNATIONAL) AG, Rechenstrasse 37, Switzerland ~72: HAYASHI, Hirosaka;IVARSSON, Mattias Emanuel;KLETZMAYR, Anna;KURO-O, Makoto;LEROUX, Jean- Christophe~ 33:EP ~31:20209090.8 ~32:20/11/2020

2023/06103 ~ Complete ~54:FLOW SYNTHESIS OF RDX ~71:BAE SYSTEMS PLC, 6 Carlton Gardens, London, SW1Y 5AD, United Kingdom ~72: ANDY ODEN BURN;DANIEL JUBB;IAN EWART MURRAY PATERSON;MATTHEW PAUL DIDSBURY;NICOLA KENNEDY;STUART KENNEDY~ 33:GB ~31:2019393.4 ~32:09/12/2020

2023/06076 ~ Complete ~54:REACTION DEVICE FOR ELECTROCHEMICAL HYBRID BIOFILM ~71:Yanbian University, No. 977, Gongyuan Road, Yanbian University, Yanji City, Jilin Province, 133002, People's Republic of China ~72: BAI, Rui;JIANG, Ye;LI, Bailu;MIAO, Luyuan;QUAN, Yue;SHEN, Yuexi;WANG, Baiqi;WANG, Huaijia;WANG, Kexin;WANG, Siyi;WANG, Wenbo;YANG, Shuyue;ZHAO, Chong~

2023/06092 ~ Complete ~54:NOVEL AFFINITY CONSTRUCTS AND METHODS FOR THEIR USE ~71:Impetus Agriculture, Inc., 4340 Duncan Ave., ST. LOUIS 63110 , MO, USA, United States of America ~72: ABDELGAFFAR, Heba Mohamed Yassen;HAHNFELD, Constanze;JONGEDIJK, Erik;JURAT-FUENTES, Juan Luis;MELDAU, Stefan;STAUB, Jeffrey M.~ 33:US ~31:63/133,386 ~32:03/01/2021;33:US ~31:63/241,896 ~32:08/09/2021

2023/06096 ~ Complete ~54:OPHTHALMIC COMPOSITION CONTAINING LEVOFLOXACIN AND KETOROLAC, METHOD FOR THE PREPARATION AND USE THEREOF ~71:NTC S.R.L., Via L. Razza, 3, 20124, Milano (MI), Italy;RAFARM UK LIMITED, 6th Floor Kingdom Street, 2 LONDON, W2 6BD, United Kingdom ~72: EFROSINI FOSTIERI;FEDERICO BERTOCCHI;GEORGE CHALKIAS;IOANNA RASSIA;KONSTANTINOS CHATZELLIS;LUCIANO MARCELLONI~ 33:IT ~31:102020000026690 ~32:09/11/2020

2023/06067 ~ Provisional ~54:HEADSET CELLULAR SMART WATCH WIRELESS EARPHONE WITH A 4G SUPPORT BUILD IN SIM CARD SLOT FOR MAKE CALLS AND VIDEO CALLS AND VIEW YOUR MESSAGES. ~71:AHMED WASEEF SAB, 24 Park Avenue Desainager, South Africa;AHMED WASEEF SAB, 24 Park Avenue Desainager, South Africa;AHMED WASEEF SAB, 24 Park Avenue Desainager, South Africa ~72: AHMED WASEEF SAIB;AHMED WASEEF SAIB~

2023/06071 ~ Complete ~54:THERMAL INSULATION AND FLAME RETARDANT BUILDING MATERIAL AND PREPARATION METHOD THEREOF ~71:XUZHOU COLLEGE OF INDUSTRIAL TECHNOLOGY, No. 1 Xiangwang South Road, Gulou District, Xuzhou City, Jiangsu Province, 221140, People's Republic of China ~72: CHENG Cheng;LI Xingzhen~

2023/06081 ~ Complete ~54:APPARATUS AND METHOD FOR PREDICT EPILEPTIC SEIZURE ~71:Dr. Ratnaprabha Ravindra Borhade, Assistant Professor, Cummins college of engineering for women Pune- 411052; also residing at Row house no 2, Gajanan Krupa varad tanishq housing society, benkar Vasti Dhayari, Pune- 411041, Pune, MAHARASHTRA, 411041, India;Dr. Sharada Narsingrao Ohatkar, Professor, Cummins college of engineering for women Pune- 411052; also residing at Flat no. 501, D building, B wing, Shewale Park, Shahu Colony, Lane no 4, Karvenagar, Pune 411052, Pune, MAHARASHTRA, 411052, India;Dr. Shital Sachin Barekar, Assistant Professor, Department of Computer engineering, Cummins college of engineering for women, Pune – 411052, Pune, MAHARASHTRA, 411052, India;Mr. Ravindra Honaji Borhade, Assistant Professor, Smt. Kashibai navale college of engineering Vadgaon, Pune- 411041; also residing at Row house no 2, Gajanan Krupa varad

tanishq housing society, benkar Vasti Dhayari, Pune- 411041, Pune, MAHARASHTRA, 411041, India;Mrs. Tanisha Sanjaykumar Londhe, Assistant Professor, Cummins college of engineering for women Pune- 411052; also residing at D104, Suyog Leher, near Talab Majjid, Kondhwa Bk, Pune 411048, Pune, MAHARASHTRA, 411048, India ~72: Dr. Ratnaprabha Ravindra Borhade;Dr. Sharada Narsingrao Ohatkar;Dr. Shital Sachin Barekar;Mr. Ravindra Honaji Borhade;Mrs. Tanisha Sanjaykumar Londhe~

2023/06087 ~ Complete ~54:COMPOSITIONS AND METHODS FOR MODULATING MYC EXPRESSION ~71:FLAGSHIP PIONEERING INNOVATIONS V, INC., 55 Cambridge Parkway, 8th Floor, Suite 800E, United States of America ~72: BELAGHZAL, Houda;FARELLI, Jeremiah, Dale;KENNEDY, Jodi, Michelle;LEE, Eugine;SCHEIDEGGER, Adam, Walter;SENAPEDIS, Jr., William, Thomas;WITT, Abigail, Elizabeth;YARAR, Defne~ 33:US ~31:63/125,833 ~32:15/12/2020;33:US ~31:63/137,097 ~32:13/01/2021;33:US ~31:63/212,991 ~32:21/06/2021;33:US ~31:63/281,022 ~32:18/11/2021

2023/06104 ~ Complete ~54:ION-BOMBARDMENT-RESISTANT GLASS COMPOSITION, MICROCHANNEL PLATE CLADDING GLASS, MICROCHANNEL PLATE AND PREPARATION METHOD ~71:CHINA BUILDING MATERIALS ACADEMY, No.1 Guanzhuangdongli, Chaoyang District, Beijing, 100024, People's Republic of China ~72: CHANG LIU;CHEN WANG;DONGZHAN ZHOU;HUA CAI;HUI LIU;JIAO LIAN;JINSHENG JIA;TIEZHU BO;XIAOXUAN SHI;YANG ZHANG~

2023/06077 ~ Complete ~54:BALL-CLAMP TYPE FALL ARRESTER FOR DRILL PIPE ~71:Guangdong Eagler Geological Equipment Technology Co., Ltd, Building A, Jinding Shenghui Street No.12, High-tech Zone, Zhuhai,, People's Republic of China ~72: Deng, Guanghong;Li, Youlin;Liu, Xuyong~ 33:CN ~31:202210665592.3 ~32:13/06/2022

2023/06089 ~ Complete ~54:FOOT-AND-MOUTH DISEASE VIRUS POLYPEPTIDE INHIBITOR AND USE THEREOF ~71:Lanzhou Veterinary Research Institute, Chinese Academy of Agricultural Sciences, No. 1 Xujiaping, Chengguan District, Lanzhou, People's Republic of China;NHC Key Laboratory of Systems Biology of Pathogens, Institute of Pathogen Biology, Chinese Academy of Medical Sciences and Peking Union Medical College, 9 Dongdan Santiao, Dongcheng District, People's Republic of China ~72: Cao Weijun;Cui Sheng;Gao Xiaopan;Qin Bo;Yang Fan;Zhang Chu;Zhang Wei;Zheng Haixue;Zheng Min~ 33:WO ~31:PCT/CN2022/098719 ~32:14/06/2022

2023/06080 ~ Complete ~54:DRILLING PILE CONSTRUCTION PLATFORM IN WATER ~71:China Railway Seventh Group Co., LTD, No.1225,East-Hanghai Road, Zhengzhou, Henan, 450016, People's Republic of China;Overseas Company of China Railway Seventh Bureau Group Co., Ltd., Zone B and D, 3rd Floor, No. 1225, Hanghai East Road, Zhengzhou Economic and Technological Development Zone, Zhengzhou, Henan, 450016, People's Republic of China ~72: DONG, Xianyang;DU, Chao;GUO, Dongdong;MAO, Kunlin;TANG, Haisheng;TAO, Yepeng;WU, Yongquan~ 33:CN ~31:202321275717.8 ~32:24/05/2023

2023/06086 ~ Complete ~54:4-AMINO-3-(4-PHENOXYPHENYL)-1,3- DIHYDRO-2H-IMIDAZO[4,5-C]PYRIDIN-2-ONE DERIVATIVES AND SALTS THEREOF ~71:GENZYME CORPORATION, 450 Water Street, Cambridge, MA, United States of America ~72: ARABEYRE, Catherine;BOISNARD, Sabine;MOLINER, Patricia;PERARD, Serge;ROY, Sebastien;SALLABERRY, Damien~ 33:US ~31:63/130,010 ~32:23/12/2020;33:US ~31:63/245,288 ~32:17/09/2021

2023/06101 ~ Complete ~54:CRYOGENIC PROCESS FOR OBTAINING PRODUCT OF VALUE FROM A HYDROGEN-RICH INPUT GAS ~71:XENON HOLDING GMBH, Finkenstraße 1, 85598, Baldham, Germany ~72: HANS SCHMIDT;NORBERT PETERS~ 33:DE ~31:10 2020 130 946.5 ~32:23/11/2020

2023/06074 ~ Complete ~54:A PEROVSKITE SOLAR CELLS BASED ON BARIUM TITANATE AND ITS PREPARATION METHOD ~71:Hunan Normal University, No. 36 Lushan Road, Changsha City, Hunan Province, 410081, People's Republic of China ~72: Luo Yunrong~ 33:CN ~31:2023105717363 ~32:19/05/2023

2023/06099 ~ Complete ~54:MULTI-TEMPERATURE HEAT COLLECTION SYSTEM ~71:PHOTON VAULT LLC, 1448 Asterbell Dr, San Ramon, California, 94582, United States of America ~72: KENTWELL LEE MCCORMICK~ 33:US ~31:17/093,063 ~32:09/11/2020

2023/06108 ~ Complete ~54:NOISE-REDUCTION MULTISTAGE LIQUID OXYGEN COLLAPSE ROCK BLASTING DEVICE ~71:CHINA RAILWAY SEVENTH BUREAU GROUP NANJING ENGINEERING CO., LTD., ROOM 916, BUILDING 6, NO.6, SANHONG ROAD, People's Republic of China ~72: CUI, Liang;CUI, Wenshuang;HAN, Chao;LI, Yongkang;LUO, Donghui;LUO, Xiaodong;SONG, Zhizhao;WANG, Yajun;XIE, Chao;YANG, Chong;YANG, Junqi;YAO, Jianrong;ZHANG, Chuan;ZHANG, Wenlong;ZHOU, Yingyu~

2023/06070 ~ Complete ~54:HERBAL FORMULAE SCREENING METHOD AND SYSTEM BASED ON DIAGNOSIS AND TREATMENT EXPERIENCE AND INTELLIGENT LEARNING ~71:Institute of Chinese Materia Medica; China Academy of Chinese Medical Sciences, No.16 Dongzhimen Neinan Street, Dongcheng District, Beijing, 100700, People's Republic of China ~72: LI Bing;NIU Qikai;ZHANG Huamin~ 33:CN ~31:202211439736X ~32:17/11/2022

2023/06073 ~ Complete ~54:PAN RELEASE AGENT ~71:LAMBDATECH LTD, Tepelenio Business Center, 1st floor, 13 Tepeleniou, Cyprus ~72: CHARLILAOU, Constantinos~ 33:ZA ~31:2022/02888 ~32:10/03/2022

2023/06079 ~ Complete ~54:A GEOMETRY STRUCTURE OF STATIC RANDOM ACCESS MEMORY (SRAM) FOR HIGH PERFORMANCE AND AREA ON CHIP ~71:Dr. Barekar Shital Sachin, Department of Computer Engineering, Cummins College of Engineering for Women, Pune - 411052, Pune, MAHARASHTRA, 411052, India;Dr. Borhade Ratnaprabha Ravindra, Department of Electronics and Telecommunication Engineering, Cummins College of Engineering for women, Pune -411052, Pune, MAHARASHTRA, 411052, India;Dr. Mali Madan Balkrishna, Department of Electronics and Telecommunication Engineering, Sinhgad College of Engineering, Vadgaon (Bk) Pune - 411041, Pune, MAHARASHTRA, 411041, India;Londhe Tanisha Sanjaykumar, D104, Suyog leher, near Talab Majjid, Kondhwa Bk, Pune 411048, Pune, MAHARASHTRA, 411048, India;Mathurkar Piyush Kiranrao, Department of Electronics and Telecommunication Engineering, Vishwakarma Institute of Information Technology, Pune -411048, Pune, MAHARASHTRA, 411048, India ~72: Dr. Barekar Shital Sachin;Dr. Borhade Ratnaprabha Ravindra;Dr. Mali Madan Balkrishna;Londhe Tanisha Sanjaykumar;Mathurkar Piyush Kiranrao~

2023/06085 ~ Complete ~54:TOWER CRANE ATTACHED STEEL PIPE COLUMN CONNECTING NODE STRUCTURE ~71:CHINA CONSTRUCTION SECOND ENGINEERING BUREAU LTD, Building E, Yard 6, Automobile Museum East Road,, Fengtai District, Beijing, People's Republic of China ~72: CHEN, lei;CHENG, lei;GAN, jingyang;HU, jinwei;HUANG, honglin;LI, jun;WANG, jialin;WANG, pengfei;WANG, ying;ZHANG, ming~ 33:CN ~31:202222585465.0 ~32:29/09/2022

2023/06094 ~ Complete ~54:DEVICE AND METHOD FOR PASSIVE COLLECTION OF ATMOSPHERIC CARBON DIOXIDE WITH ELECTRO-SWING MATERIALS ~71:Arizona Board of Regents on behalf of Arizona State University, SkySong, 1475 N. Scottsdale Rd., Suite 200, SCOTTSDALE 85257, AZ, USA, United States of America ~72: LACKNER, Klaus;PAGE, Robert~ 33:US ~31:63/119,325 ~32:30/11/2020

2023/06090 ~ Complete ~54:METHODS OF TREATING CONDITIONS RELATED TO THE S1P1 RECEPTOR ~71:Arena Pharmaceuticals, Inc., 66 Hudson Boulevard East, NEW YORK 10001-2192, NY, USA, United States of America ~72: AHLUWALIA, Gurpreet;FUNG, Maple;SELFRIDGE, Andrew Christopher Wesley~ 33:US ~31:63/111,312 ~32:09/11/2020

2023/06098 ~ Complete ~54:SMALL MOLECULE INHIBITOR OF CATHEPSIN C AND MEDICINAL USE THEREOF ~71:REISTONE BIOPHARMA COMPANY LIMITED, Room 203, No.1 Building, No.298 Xiangke Road, Free Trade Pilot Zone, Pudong New Area Shanghai, 201210, People's Republic of China ~72: DEFENG SHEN;SHUYI GONG;XIN HAO;XINMING DU~ 33:CN ~31:202011408286.9 ~32:04/12/2020;33:CN ~31:202011517041.X ~32:21/12/2020;33:CN ~31:202110357042.0 ~32:01/04/2021;33:CN ~31:202110458563.5 ~32:27/04/2021;33:CN ~31:202110910610.5 ~32:09/08/2021

2023/06100 ~ Complete ~54:SUBSTITUTED PYRROLO [2, 3-B] PYRIDINE AND PYRAZOLO [3, 4-B] PYRIDINE DERIVATIVES AS PROTEIN KINASE INHIBITORS ~71:FOCHON BIOSCIENCES, LTD., 2 Yangliu Road, Bldg F, Yubei District, Chongqing, 401121, People's Republic of China ~72: HAOHAN TAN;LIHUA JIANG;QIHONG LIU;SHU LIN;WEIBO WANG;XINGDONG ZHAO;YUNLING WANG~ 33:US ~31:63/115,027 ~32:17/11/2020

2023/06065 ~ Provisional ~54:A RESPIRATORY MEDICAL DEVICE TO GENERATE POSITIVE EXPIRATORY PRESSURE INTO THE LUNGS. ~71:Tru Mode Pty Ltd, 41 Kingfisher Street, South Africa ~72: Magda Papadopoulos~

2023/06075 ~ Complete ~54:PEELING DEVICE OF LAURACEAE FRUITS ~71:Nanchang Institute Of Technology, No. 289 Tianxiang Avenue, High tech Development Zone, Nanchang City, Jiangxi Province, 330099, People's Republic of China ~72: Hou Jiexi;Huang Guomin;Jin Zhinong;Wang Yanbo;Wu Chunsheng;Xiao Changlong;Xiao Zufei;Zhang Beihong~ 33:CN ~31:202211337420X ~32:28/10/2022

2023/06091 ~ Complete ~54:METHOD AND SYSTEM FOR NEUTRALISING RISING JOLTS SUPPORTED BY A VEHICLE STEERING COLUMN ~71:CKP Engineering, 620 Chemin de Pourcarte, CAZÈRES SUR ADOUR 40270, FRANCE, France ~72: FERRAZZO, Julien~ 33:FR ~31:2012740 ~32:05/12/2020

2023/06097 ~ Complete ~54:SYSTEM AND METHOD FOR POWER HEADROOM REPORTING FOR UPLINK TRANSMISSION IN SINGLE DCI BASED MULTI-TRP OPERATION ~71:ZTE CORPORATION, ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan, Shenzhen, Guangdong, 518057, People's Republic of China ~72: BO GAO;CHUANGXIN JIANG;KE YAO;YANG ZHANG;ZHAOHUA LU~

. - APPLIED ON 2023/06/09 -

2023/06140 ~ Complete ~54:END OF HOSE MIXING SYSTEMS AND METHODS ~71:DYNO NOBEL ASIA PACIFIC PTY LIMITED, Level 8 28 Freshwater Place, Southbank, Victoria, 3006, Australia ~72: BERNHARD DE VRIES;JAMIE BUDD;SAVAS SAMAT;VERLENE LOVELL~ 33:AU ~31:2020904106 ~32:10/11/2020

2023/06146 ~ Complete ~54:UV-VIS RADIATION CURABLE SECURITY INKS FOR PRODUCING DICHROIC SECURITY FEATURES ~71:SICPA HOLDING SA, Avenue de Florissant 41, PRILLY 1008, SWITZERLAND, Switzerland ~72: DEMARTIN MAEDER, Marlyse;GRIGORENKO, Nikolay;OSWALD, Andre;PITTET, Hervé;VEYA, Patrick~ 33:EP ~31:20206740.1 ~32:10/11/2020

2023/06107 ~ Provisional ~54:GLOBAL ORDER MANAGEMENT SYSTEM AND METHOD THEREOF ~71:Gruvtec (Pty) Ltd, 82 Tamboti Road, La Maison Royale H68, Midrand, 1685, SOUTH AFRICA, South Africa ~72: TSHETLO, Katlego Tsholofelo~

2023/06109 ~ Complete ~54:ONLINE CHROMATOGRAPHY AND ELECTROSPRAY IONIZATION MASS SPECTROMETER ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: ZHANG, Qian~ 33:US ~31:62/796,771 ~32:25/01/2019

2023/06111 ~ Complete ~54:FEEDING TROUGH FOR CAMELS ~71:Xinjiang Agricultural University, No. 42, Nanchang Road, Saybagh District, Urumqi City, Xinjiang, 830052, People's Republic of China;Xinjiang Uygur

Autonomous Region Animal Husbandry Station, No. 476, Xishan East Street, Urumqi City, Xinjiang, 830000, People's Republic of China ~72: Fengming LI;Jiahao WANG;Juan GENG;Mahaba ROUZI;Peng YUAN;Zhiwei LI~ 33:CN ~31:2022108137280 ~32:11/07/2022

2023/06115 ~ Complete ~54:PREFABRICATED EXTERNAL WALL PANEL CONNECTION STRUCTURE AND ITS CONSTRUCTION METHOD ~71:CHINA RAILWAY CONSTRUCTION 20TH GROUP MUNICIPAL ENGINEERING Co .,LTD., Building 25, Rainbow City, Zhongchuan Park, Lanzhou New Area, Lanzhou City, Gansu Province, People's Republic of China ~72: GUI Chunhai;GUO Hongcheng;LI Ruishan;LI Sha;LIU Heng;LU Jie;REN Meng;WANG Minquan;ZHANG Pengfei;ZHANG Zhihong;ZHAO Fei~

2023/06116 ~ Complete ~54:WANGJIANG CROSS STITCH PATTERN DESIGN SYSTEM AND DIGITIZATION METHOD ~71:Anhui Polytechnic University, Beijing Middle Road, Jiujiang District, Wuhu City, Anhui Province, People's Republic of China ~72: BO Zeming;HONG Jun;LI Shaocong;WANG Xu;WANG Zhen;XIANG Duowen;ZHANG Haiyan;ZUO Hongmei~

2023/06119 ~ Complete ~54:HEAT-CONDUCTING HALOGEN-FREE FLAME-RETARDANT INSULATING POLYPROPYLENE FILM AND PREPARATION METHOD THEREOF ~71:Wenzhou Xintai New Materials Stock Co, LTD., No.196,Chuang Ye Road, Yishan Town, Wenzhou City, Zhejiang Province, 325803, People's Republic of China ~72: Chen Nianfu;Fang Xuewu;Huang Shaoyan;Jiang Ronghua;Wei Xin~

2023/06125 ~ Complete ~54:SYSTEM AND METHOD FOR CHARACTERIZING PROTEIN DIMERIZATION ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, New York, 10591-6707, United States of America ~72: SHUNHAI WANG;YUETIAN YAN~ 33:US ~31:62/625,732 ~32:02/02/2018;33:US ~31:62/738,051 ~32:28/09/2018

2023/06132 ~ Complete ~54:CLOPIDOGREL FOR USE IN THE TREATMENT OF FOCAL SEGMENTAL GLOMERULOSCLEROSIS (FSGS) ~71:DELTA 4 GMBH, Alser Straße 23/DG/30 1080 Vienna, Austria ~72: PAUL PERCO~ 33:EP ~31:20211546.5 ~32:03/12/2020

2023/06134 ~ Complete ~54:BRACKET TORQUE DEVICE ~71:BRAY INTERNATIONAL, INC., 13333 Westland E Blvd., Houston, Texas, 77041, United States of America ~72: DANIEL MCCONNELL;JOSEPH SAMARNEH;MICHAEL KITCHENS~ 33:US ~31:63/123,818 ~32:10/12/2020;33:US ~31:17/139,284 ~32:31/12/2020

2023/06143 ~ Complete ~54:UV-VIS RADIATION CURABLE SECURITY INKS FOR PRODUCING DICHROIC SECURITY FEATURES ~71:SICPA HOLDING SA, Avenue de Florissant 41, PRILLY 1008, SWITZERLAND, Switzerland ~72: DEMARTIN MAEDER, Marlyse;GRIGORENKO, Nikolay;OSWALD, Andre;PITTET, Hervé;VEYA, Patrick~ 33:EP ~31:20206794.8 ~32:10/11/2020

2023/06151 ~ Complete ~54:METHODS OF TREATING PROSTATE CANCER ~71:Arvinas Operations, Inc., 5 Science Park, 395 Winchester Avenue, NEW HAVEN 06511, CT, USA, United States of America ~72: CHIRNOMAS, Sarah Deborah;GEDRICH, Richard Walter;PECK, Ronald;TAYLOR, Ian Charles Anthony~ 33:US ~31:63/124,640 ~32:11/12/2020;33:US ~31:63/125,345 ~32:14/12/2020

2023/06156 ~ Provisional ~54:ULTRA RADIO SOFTWARE ~71:HLULWAYINI LAWRENCE DLOMO, 80 VILLA BAROQUE, 174 SEVENTH ROAD, GAUTENG, South Africa ~72: HLULWAYINI LAWRENCE DLOMO ~

2023/06113 ~ Complete ~54:COMPLETE RESOURCE RECOVERY TECHNOLOGY AND COMPLETE RESOURCE RECOVERY SYSTEM FOR SOURCE-SEPARATED URINE ~71:University of Science and Technology Beijing, No. 30 Xueyuan Road, Haidian District, Beijing, 100083, People's Republic of China ~72: CHENG, Shikun;LI, Zifu;LYU, Yaping;WANG, Xuemei;ZHOU, Xiaoqin~

2023/06122 ~ Complete ~54:A GROUNDING DEVICE FOR POWER SUPPLY AND DISTRIBUTION TOWER ~71:Shihezi University, Shibei Fourth Road, Shihezi City, Xinjiang Uygur Autonomous Region, 832003, People's Republic of China ~72: Liqiao Li;Zongyu Gao~

2023/06133 ~ Complete ~54:A STEREOVISION METHOD AND SYSTEM ~71:BIOSECO SP. Z O.O., 68 Budowlanych, 80-298 Gdansk, Poland ~72: ADAM JAWORSKI;DAMIAN DZIAK;DAMIAN KANIECKI;DAWID GRADOLEWSKI;WLODEK KULESZA~ 33:GB ~31:2018391.9 ~32:23/11/2020;33:PL ~31:P.436051 ~32:23/11/2020

2023/06121 ~ Complete ~54:A NONLINEAR DYNAMIC CONTROLLER DESIGN METHOD FOR MANIPULATOR SYSTEM TRAJECTORY TRACKING ~71:Shanghai Polytechnic University, No.2360 Jinhai Road, Pudong New Area, Shanghai City, 201209, People's Republic of China ~72: Hao Hao;Huanyu Liu;Huidan Lin;Wenjie Wang;Yanghua He;Yujie Qin~ 33:CN ~31:202310375301.1 ~32:10/04/2023

2023/06128 ~ Complete ~54:THERAPEUTIC METHODS AND COMPOSITIONS UTILIZING STROMAL VASCULAR FRACTION DERIVED FROM ADIPOSE TISSUE ~71:ADVANCED THERAPEUTIC LAB, INC., 160 East 56th St., 3rd Floor New York, United States of America ~72: POLANSKY, Glenn~ 33:US ~31:63/113,481 ~32:13/11/2020

2023/06131 ~ Complete ~54:FLUORESCENT SENSOR FOR TRACK POWER SUPPLY SYSTEM ~71:HEBEI GEO UNIVERSITY, No. 136 Huai'an East Road, Shijiazhuang, Hebei, 050030, People's Republic of China ~72: LI, Simian;LIU, Qiang;WANG, Guangxiang;WANG, Yuan;ZHANG, Lei;ZHENG, Yibo~ 33:CN ~31:2021108204670 ~32:20/07/2021

2023/06136 ~ Complete ~54:SYSTEMS AND METHODS FOR SIGNAL BASED FEATURE ANALYSIS TO DETERMINE CLINICAL OUTCOMES ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, New York, 10591, United States of America ~72: MATTHEW F WIPPERMAN;OLIVIER HARARI;RINOL ALAJ;SARA HAMON;TONG SHEN;XUEFANG WU;YIZIYING CHEN~ 33:US ~31:63/129,357 ~32:22/12/2020

2023/06491 ~ Provisional ~54:MSD COMMUNITY HUB ~71:MSD DIVEST, 51 Chelsea Drive, South Africa ~72: Mahmood Dawood Dhoda~

2023/06110 ~ Complete ~54:MULTI-FUNCTIONAL INTEGRATED ON-SITE FIRST AID SKILL TRAINING SYSTEM ~71:ARMY MEDICAL UNIVERSITY, PEOPLE'S LIBERATION ARMY, PRC, No. 30, Gaotanyan Main Street, Shapingba District, Chongqing, 400038, People's Republic of China ~72: CHEN, Can;CHEN, Lin;DU, Wenqiong;JIA, Yijun;JIANG, Renqing;MA, Yunfei;YANG, Haoyang;ZHONG, Xin;ZONG, Zhaowen~

2023/06112 ~ Complete ~54:GREEN DISPOSAL METHOD FOR PVC PLASTIC WASTES AND APPLICATION OF POROUS CARBON MATERIAL CONVERTED FROM PVC PLASTIC WASTES ~71:Yancheng Teachers University, No. 2, South Road, Xiwang Avenue,, Yancheng City, Jiangsu Province, 224007, People's Republic of China ~72: CHANG, Yingna;DONG, Youzhen;XU, Guodong;ZHAO, Zhiyuan;ZUO, Yuxiang~

2023/06117 ~ Complete ~54:POLYCLONAL ANTIBODY AGAINST OUTER MEMBRANE PROTEIN OF CITRUS HUANGLONGBING PATHOGEN, AND PREPARATION METHOD AND APPLICATION THEREOF ~71:Zhejiang Citrus Research Institute, No.1 Yushanping, Huangyan District, Taizhou City, Zhejiang Province, People's Republic of China ~72: Chen GuoQing;Liu ShunMin;Lu LianMing;Pu ZhanXu~ 33:CN ~31:2023105694681 ~32:19/05/2023

2023/06118 ~ Complete ~54:TANK LEVEL INDICATOR ~71:VAN SCHALKWYK, Johannes Cornelius, 40 Boekenhout Street, NELSPRUIT 1200, SOUTH AFRICA, South Africa ~72: VAN SCHALKWYK, Dirk Frederik;VAN SCHALKWYK, Johannes Cornelius~ 33:ZA ~31:2022/07178 ~32:29/06/2022

2023/06148 ~ Complete ~54:MACROCYCLIC COMPOUNDS AND METHODS OF USE THEREOF ~71:Janssen Biotech, Inc., 800/850 Ridgeview Drive, HORSHAM 19044, PA, USA, United States of America ~72: DUDKIN, Vadim Y.;GOLDBERG, Shalom;KEITH, John;SALTER, Rhys;SONG, Fengbin;ZHANG, Wei~ 33:US ~31:63/111,933 ~32:10/11/2020

2023/06155 ~ Complete ~54:ANTIBODY COMPOSITION ~71:MERUS N.V., Uppsalalaan 17, 3rd & 4th floor, Netherlands ~72: ARVINTE, Tudor;BAKKER, Alexander Berthold Hendrik;DARPIN, Guillaume Desire;DOORNBOS, Robert Paul;HENDRIKS, Linda Johanna Aleida;POIRIER, Emilie Brigitte~ 33:NL ~31:2027167 ~32:18/12/2020

2023/06129 ~ Complete ~54:INCONTINENCE ARTICLE WITH CHANNEL AND PH REGULATOR ~71:PAUL HARTMANN AG, Paul-Hartmann-Str. 12, Germany ~72: BÄHRLE, Christian;GAUSE, Enno;KESSELMEIER, Rüdiger;VECHTER, Olga~ 33:DE ~31:10 2020 134 878.9 ~32:23/12/2020

2023/06139 ~ Complete ~54:CYCLOBENZAPRINE TREATMENT FOR FIBROMYALGIA ~71:TONIX PHARMACEUTICALS HOLDING CORP., 26 Main Street, Suite 101 Chatham, New Jersey, 07928, United States of America ~72: GREGORY M SULLIVAN;SETH LEDERMAN~ 33:US ~31:63/122,469 ~32:07/12/2020

2023/06145 ~ Complete ~54:OLIGONUCLEOTIDES, REAGENTS AND PREPARATION THEREOF ~71:Biogen MA Inc., 225 Binney Street, CAMBRIDGE 02142, MA, USA, United States of America ~72: ANTIA, Firoz;FILLON, Yannick;KIESMAN, William F.;SHI, Xianglin;YAN, Wuming;ZHOU, Xuan~ 33:US ~31:63/112,281 ~32:11/11/2020

2023/06153 ~ Complete ~54:METHOD FOR MANUFACTURING AN INHALABLE POWDER COMPRISING VORICONAZOLE ~71:Zambon S.p.A., Via Lillo del Duca, 10, BRESSO (MI) 20091, ITALY, Italy ~72: CAPONETTI, Giovanni;CASTEGINI, Franco;FAIELLA, Gianluigi;MAGGI, Loretta;MAGI, Nadia;NICOSIA, Valentina;ZANELOTTI, Laura~ 33:IT ~31:102020000030437 ~32:10/12/2020

2023/06141 ~ Complete ~54:AUTO-INJECTOR AND RELATED METHODS OF USE ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, New York, 10591, United States of America ~72: ANDREW DUMONT;BART E BURGESS;BRYAN GRYGUS;DANIEL HALBIG;MATTHEW PAUSLEY;ROSS KENYON;TREVOR LANGLEY~ 33:US ~31:63/133,185 ~32:31/12/2020;33:US ~31:63/134,554 ~32:06/01/2021

2023/06123 ~ Complete ~54:A KIND OF SILICATE COPPER OXIDE CHEMICAL DEPOSITION-HYDROPHOBIC SURFACE MODIFIED FLOTATION METHOD ~71:Kunming University of Science and Technology, No. 68 Xuefu Road, Wuhua District, Kunming City, Yunnan Province, 650093, People's Republic of China ~72: Bin Pei;Chao Su;Dianwen Liu;Hao Lai;Haoxiang Wang;Jianjun Fang;Jinpeng Cai;Liuyang Dong;Peilun Shen;Qifang Zheng;Rong Peng;Xiaolin Zhang;Yulong Xiang;Zhao Xie~

2023/06126 ~ Complete ~54:GALVANIC CELL-BASED BIOHYDROMETALLURGICAL PROCESS ~71:Central South University, No. 932, South Lu Shan Road, Yuela District, Changsha, Hunan Province, People's Republic of China ~72: Guanzhou Qiu;Guohua Gu;Hongbo Zhao;Hongshuai Hou;Li Shen;Luyuan Zhang~ 33:CN ~31:202210664719.X ~32:13/06/2022

2023/06135 ~ Complete ~54:ANTIBODIES THAT BIND GAMMA-DELTA T CELL RECEPTORS ~71:LAVA THERAPEUTICS N.V., Yalelaan 60 3584 CM Utrecht, Netherlands ~72: DAVID LUTJE HULSIK;FELIX-LENNART

FENNEMANN;JOHANNES JELLE VAN DER VLIET;LISA ANNA KING;MICHIEL VAN WESTERHOVEN;PAUL WILLEM HENRI IDA PARREN;PETER ALEXANDER GERARDUS MARIA MACHIELSEN;ROBERTUS CORNELIS ROOVERS~ 33:EP ~31:20213166.0 ~32:10/12/2020

2023/06138 ~ Complete ~54:TREATMENT OF CHOLANGIOPATHIES WITH SELADELPAR ~71:CYMABAY THERAPEUTICS, INC., 7575 Gateway Boulevard, Suite 110, Newark, California, 94560, United States of America ~72: ALEXANDRA S STEINBERG;CHARLES A MCWHERTER;KE YANG;YUN-JUNG CHOI~ 33:US ~31:63/144,355 ~32:01/02/2021

2023/06144 ~ Complete ~54:INHALABLE POWDER COMPRISING VORICONAZOLE IN CRYSTALLINE FORM ~71:Zambon S.p.A., Via Lillo del Duca 10, BRESSO (MI) 20091, ITALY, Italy ~72: CAPONETTI, Giovanni;CASTEGINI, Franco;FAIELLA, Gianluigi;MAGGI, Loretta;MAGI, Nadia;NICOSIA, Valentina;ZANELLOTTI, Laura~ 33:IT ~31:102020000030443 ~32:10/12/2020

2023/06152 ~ Complete ~54:ANTENNA AND COMMUNICATION DEVICE ~71:Huawei Technologies Co., Ltd., Huawei Administration Building, Bantian, Longgang District, SHENZHEN 518129, GUANGDONG, CHINA (P.R.C.), People's Republic of China ~72: GAO, Qiqiang;JIN, Li;LIU, Xinming;LU, Junfeng~

2023/06147 ~ Complete ~54:LOW COMPLEXITY HISTORY USAGE FOR RICE PARAMETER DERIVATION FOR HIGH BIT-DEPTH VIDEO CODING ~71:QUALCOMM Incorporated, ATTN: International IP Administration, 5775 Morehouse Drive, SAN DIEGO 92121-1714, CA, USA, United States of America ~72: KARCZEWICZ, Marta;RUSANOVSKYY, Dmytro~ 33:US ~31:63/124,013 ~32:10/12/2020;33:US ~31:17/547,015 ~32:09/12/2021

2023/06149 ~ Complete ~54:SYSTEM AND METHOD OF TREATING BRINES ~71:Everflo Australia Pty Ltd, c/-CFS Solutions Pty Ltd, Suite 9B, 151 Herdsman Parade, WEMBLEY 6014, WESTERN AUSTRALIA, AUSTRALIA, Australia ~72: SMITH, Bruce~ 33:AU ~31:2020904137 ~32:11/11/2020

2023/06154 ~ Complete ~54:TREATMENT OF CANCERS WITH AN ANTIBODY THAT BINDS LGR5 AND EGFR ~71:MERUS N.V., Uppsalalaan 17, 3rd & 4th floor, Netherlands ~72: SIRULNIK, Leonardo Andres;WASSERMAN, Ernesto Isaac~ 33:NL ~31:2027118 ~32:15/12/2020

2023/06114 ~ Complete ~54:GRAPHENE PURIFICATION DEVICE AND METHOD FOR MEDICAL WATER ~71:Shaoguan University, Daxue Rd. 288, Shaoguan City, Guangdong, People's Republic of China;Zhuhai Jingwu Tech. Co. Ltd., Touring Rd. 168, Xiangzhou District, Zhuhai City, Guangdong, People's Republic of China ~72: Haocheng WANG;Jinsheng CHENG;Lanzhao ZHONG;Sanyin ZHAO;Wenying SUN~

2023/06120 ~ Complete ~54:METHOD FOR SIMULTANEOUSLY DETERMINING SIX DRUG RESIDUES IN BEEF AND MUTTON BY HIGH EFFICIENCY LIQUID CHROMATOGRAPHY-TANDEM MASS SPECTROMETRY ~71:Gansu Agricultural University, No.1 Yingmen Village, Anning District, Lanzhou City, Gansu Province, 730070, People's Republic of China ~72: Gou Huitian;Song Chen;Wei Yanquan;Xue Huiwen;ZhangYong~ 33:CN ~31:2022116775457 ~32:26/12/2022

2023/06124 ~ Complete ~54:RESERVOIR-REGULATING DIGITAL LOAD CONTROL ~71:LONE GULL HOLDINGS, LTD., 5331 SW Macadam Ave., Suite 258-332, Portland, Oregon 97239, United States of America ~72: BRIAN LEE MOFFAT;DANIEL WILLIAM PLACE;GARTH ALEXANDER SHELDON-COULSON;IVAR LEE THORSON~ 33:US ~31:62/911,932 ~32:07/10/2019;33:US ~31:63/004,299 ~32:02/04/2020;33:US ~31:63/087,387 ~32:05/10/2020

2023/06127 ~ Complete ~54:AEROSOL-GENERATING SYSTEM WITH IMPROVED ELECTRICAL CONNECTOR ~71:PHILIP MORRIS PRODUCTS S.A., Quai Jeanrenaud 3, Switzerland ~72: AW, Sze Chiek;CHAN, Teck Yan;EOW, Yeong Taur;RUSCIO, Dani~ 33:EP ~31:20207598.2 ~32:13/11/2020

2023/06130 ~ Complete ~54:ADMIXTURE FOR FLUIDIFYING A CEMENTITIOUS COMPOSITION WITH REDUCED CEMENT CONTENT ~71:CHRYSO, Tour Saint-Gobain 12 Place de l'Iris, France ~72: FERRARI, Lucia;GIRAUDEAU, Claire;HERVE, Mickaël;KOCABA, Vanessa;PELLERIN, Bruno~ 33:FR ~31:2013093 ~32:11/12/2020

2023/06137 ~ Complete ~54:COATINGS COMPRISING SURFACE-REACTED CALCIUM CARBONATE AND AN OXYGEN SCAVENGER FOR IMPROVING FOOD SHELF LIFE ~71:OMYA INTERNATIONAL AG, Baslerstraße 42, 4665, Oftringen, Switzerland ~72: BETTINA RÖCKER;FABIEN WILHELM MONNARD;JAN PHILIPP WEIHS;RICO MÉNARD;SELCUK YILDIRIM;STEFANIE WALLER~ 33:EP ~31:21153239.5 ~32:25/01/2021;33:EP ~31:21157029.6 ~32:15/02/2021

2023/06142 ~ Complete ~54:CLOSURE FOR A CONTAINER ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: BRANDAO, Sophia;RUEDA, Luis Fernando~ 33:EP ~31:20208254.1 ~32:18/11/2020

2023/06150 ~ Complete ~54:ARTICLE FOR USE IN AN AEROSOL PROVISION SYSTEM ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: BAILEY, Chelsea;HOLFORD, Steven~ 33:GB ~31:2019584.8 ~32:11/12/2020;33:GB ~31:2020307.1 ~32:21/12/2020;33:GB ~31:2105211.3 ~32:12/04/2021

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2023/06164 ~ Complete ~54:METHOD FOR PREPARING VANADIUM BATTERY ELECTROLYTE BY DISSOLVING WASTE VANADIUM CATALYST WITH SULFURIC ACID ~71:Zhongfan Haoxing (Beijing) New Energy Technology Co., Ltd., No.139 and No.140 Fengtai Road Crossing, Fengtai District, Beijing, 100071, People's Republic of China ~72: LIANG, Xuanwei;WANG, Zhenyu;XU, Xiaodi~ 33:CN ~31:2023102457415 ~32:15/03/2023

2023/06169 ~ Complete ~54:A METHOD FOR MEASURING THE QUALITY OF SPEECH DATA FOR DIVERSE DATA CONDITIONS ~71:Nirupam Shome, Electronics and Communication Engineering Department, Assam University, Silchar, Dorgakona, Cachar, Assam, 788011, India;Rabul Hussain Laskar, Professor. & Head, Electronics and Communication Engineering Department, National Institute of Technology, Silchar, Fakirtila, Cachar, Assam, 788010, India ~72: Nirupam Shome;Rabul Hussain Laskar~

2023/06171 ~ Complete ~54:BIPHENYL SULFONAMIDE COMPOUNDS FOR THE TREATMENT OF KIDNEY DISEASES OR DISORDERS ~71:Travere Therapeutics, Inc., 3611 Valley Centre Drive, Suite 300, SAN DIEGO 92130, CA, USA, United States of America ~72: KOMERS, Radko;SHIH, Alvin~ 33:US ~31:62/407,860 ~32:13/10/2016;33:US ~31:62/423,079 ~32:16/11/2016

2023/06175 ~ Complete ~54:A FARMLAND IRRIGATION DEVICE AND A THROTTLING IRRIGATION SYSTEM ~71:Shihezi University, Shibei Fourth Road, Shihezi City, Xinjiang Uygur Autonomous Region, 832003, People's Republic of China ~72: Liqiao Li;Zongyu Gao~

2023/06157 ~ Provisional ~54:SOLAR RADAR ALARM SYSTEM ~71:Edmund Herbert, 38 Parrot Street, South Africa ~72: Edmund Herbert~

2023/06166 ~ Complete ~54:NATURAL SASANGUA CAKE SHAMPOO AND SHOWER GEL FOR CHILDREN AND PREPARATION METHOD THEREOF ~71:Zhengzhou University of Industry Technology, No. 16, Xueyuan Road, Xinzheng City, Zhengzhou City, Henan Province, 451150, People's Republic of China ~72: DING Shijie;FENG Yali;HE Haodong;HU Yifan;SUN Shuaihao;YIN Weiping~

2023/06168 ~ Complete ~54:DOPAMINE-BASED MODIFIED OVERHAUL SLAG, PREPARATION METHOD AND APPLICATION THEREOF ~71:Guangxi Bossco Environmental Protection Technology Co.,Ltd, No. 101 Gaoan Road, Gaoxin Zone, Nanning, Guangxi, People's Republic of China ~72: DU Jianjia;LI Jing;LIN Hongfei;REN Denghui;TU Hao;XIA Xingliang;YANG Qifeng;ZHOU Yuwen~ 33:CN ~31:2022106604423 ~32:13/06/2022

2023/06187 ~ Complete ~54:CRYSTAL FORM OF FREE BASE OF INHIBITOR CONTAINING BICYCLIC RING DERIVATIVE AND PREPARATION METHOD AND APPLICATION OF CRYSTAL FORM ~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: HUA DONG;LINSONG GUO;LONG YANG~ 33:CN ~31:202011271725.6 ~32:13/11/2020;33:CN ~31:202111333586.X ~32:11/11/2021

2023/06188 ~ Complete ~54:REVERSE SHOULDER PROSTHESIS AND RELATED METHODS ~71:SKELETAL DYNAMICS, INC., 7300 North Kendall Drive, Suite 400, Miami, Florida, 33156, United States of America ~72: FRANCISCO RUBIO;JORGE ORBAY;ROBERT SIXTO~ 33:US ~31:63/142,344 ~32:27/01/2021

2023/06186 ~ Complete ~54:BICYCLIC PEPTIDE LIGANDS SPECIFIC FOR TRANSFERRIN RECEPTOR 1 (TFR1) ~71:BICYCLETX LIMITED, Blocks A&B Portway Building, Granta Park, Great Abington, Cambridge CB21 6GS, United Kingdom ~72: ELLEN GOWANS;GEMMA MUDD;KATERINE VAN RIETSCHOTEN;LIUDVIKAS URBONAS;MICHAEL RIGBY;MICHAEL SKYNNER;PUNIT SETH;STEVEN STANWAY~ 33:GB ~31:2017927.1 ~32:13/11/2020;33:GB ~31:2106903.4 ~32:14/05/2021;33:US ~31:63/261,820 ~32:29/09/2021

2023/06190 ~ Complete ~54:AMORPHOUS SOLID DISPERSION FORMULATION ~71:TAIGEN BIOPHARMACEUTICALS CO. (BEIJING), LTD., Suite 2312, A Tower, Full Link Building, No. 18, People's Republic of China;TAIGEN BIOTECHNOLOGY CO., LTD., 7F., No.138 Xinming Rd., Taiwan (R.O.C) ~72: TIEN, Fang-Wei;YEN, Chi-Feng~ 33:US ~31:63/131,886 ~32:30/12/2020

2023/06192 ~ Provisional ~54:MOKONE PORRIDGE STIRRER ~71:IKE PHASWANA PHASWANA, 206 OUTENIQUA AVENUE, 41 VAL DE SOL WATERKLOOF HEIGHTS, South Africa ~72: IKE PHASWANA PHASWANA~

2023/06158 ~ Provisional ~54:REGIMONEY ~71:Dineo Valentia Marumo, 5 Elmar Circle, South Africa ~72: Dineo Valentia Marumo~

2023/06170 ~ Complete ~54:A TYPE OF AUTOMATIC MATERIAL SUPPLEMENT SYSTEM ~71:CHENGDU VOCATIONAL AND TECHNICAL COLLEGE OF INDUSTRY, No. 818, Da 'an Road, Zhengxing Street, Tianfu New District, Chengdu City, Sichuan Province, 610213, People's Republic of China ~72: HAN, Yong;ZHAO, Tao;ZHOU, Yuanfei~

2023/06165 ~ Complete ~54:URBAN PLANNING SURVEY DEVICE ~71:Anhui Science and Technology University, 9 Donghua Road, Fengyang County, Chuzhou City, Anhui province, People's Republic of China ~72: MA Keli;YUAN Chenchen~ 33:CN ~31:2023105430626 ~32:15/05/2023

2023/06181 ~ Complete ~54:ANTIBODY COMPOSITIONS AND METHODS OF USE THEREOF ~71:Bristol-Myers Squibb Company, Route 206 and Province Line Road, PRINCETON 08543, NJ, USA, United States of America;Halozyme, Inc., 11388 Sorrento Valley Road, SAN DIEGO 92121, CA, USA, United States of America ~72: ARAS, Urvi Ashish;BELLO, Akintunde;HABY, Thomas Arthur;HART, Scott Aaron;HUANG, Masano;KHOSSRAVI, Mehrnaz;MANTRI, Rao Venkatramana;MURTHY, Bindu Purnima;ROY, Amit;SANGHAVI, Kinjal;VEZINA, Heather Elizabeth;ZHAO, Xiaochen~ 33:US ~31:63/131,234 ~32:28/12/2020;33:US ~31:63/131,244 ~32:28/12/2020;33:US ~31:63/150,465 ~32:17/02/2021

2023/06167 ~ Complete ~54:ANTI-IL-6 RECEPTOR ANTIBODY FOR TREATING JUVENILE IDIOPATHIC ARTHRITIS ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America;SANOFI BIOTECHNOLOGY, 54, rue La Boetie, France ~72: BARET-CORMEL, Lydie;FIORE, Stefano;MOMTAHEN, Tanya;VAN ADELSBERG, Janet~ 33:US ~31:62/799,698 ~32:31/01/2019;33:US ~31:62/851,474 ~32:22/05/2019;33:US ~31:62/935,395 ~32:14/11/2019;33:EP ~31:19306553.9 ~32:03/12/2019

2023/06163 ~ Complete ~54:PORTABLE OUTDOOR CHARGING DEVICE ~71:GUIZHOU UNIVERSITY, No. 1 Huaxi Avenue, Huaxi District, Guiyang City, Guizhou Province, People's Republic of China ~72: LIN Li;YANG Mingqing~

2023/06177 ~ Complete ~54:COMPOUNDS AND METHODS FOR MODULATING FACTOR XII ~71:IONIS PHARMACEUTICALS, INC., 2855 Gazelle Court, Carlsbad, United States of America ~72: BUI, Huynh-Hoa;CROSBY, Jeffrey, R.;FREIER, Susan, M.;MONIA, Brett, P.;ZHAO, Chenguang~ 33:US ~31:63/127,616 ~32:18/12/2020

2023/06176 ~ Complete ~54:METHOD FOR FEEDING FREE-RANGE LOCAL CHICKENS WITHOUT ANTIBIOTICS ~71:INSTITUTE OF ANIMAL HUSBANDRY OF HEILONGJIANG ACADEMY OF AGRICULTURAL SCIENCES, NO. 368, XUEFU ROAD, NANGANG DISTRICT, People's Republic of China ~72: LI, Manyu~

2023/06179 ~ Complete ~54:PRODUCT ENGAGEMENT SYSTEM FOR GROUPING AND MOVING CONTAINERS, RELATED SYSTEM AND METHODS ~71:Graphic Packaging International, LLC, Law Department - 9th Floor, 1500 Riveredge Parkway, Suite 100, ATLANTA 30328, GA, USA, United States of America ~72: ANDERSON, Jason C.;FORD, Colin P.;ZIEGLER, Kelly W.~ 33:US ~31:63/131,535 ~32:29/12/2020;33:US ~31:63/135,907 ~32:11/01/2021

2023/06182 ~ Complete ~54:SYSTEMS AND METHODS FOR WIRELESS REMOTE CONTROL OF AUTOMATED EQUIPMENT ~71:Westinghouse Electric Company LLC, 1000 Westinghouse Drive, Suite 141, CRANBERRY TOWNSHIP 16066, PA, USA, United States of America ~72: AMODEO, Joseph P.;HARKAWAY, John S.~ 33:US ~31:17/109,252 ~32:02/12/2020

2023/06183 ~ Complete ~54:PROCESS FOR MANAGING HYDROGEN SULFIDE IN A REFINERY ~71:UOP LLC, 25 East Algonquin Road, P.O. Box 5017, DES PLAINES 60017-5017, IL, USA, United States of America ~72: ALVES, Joao Jorge da Silva Ferreira;CLARKE, Ian;REN, Jan De;WANG, Haiyan;WHYMAN, William J.~ 33:US ~31:63/127,610 ~32:18/12/2020;33:US ~31:63/169,358 ~32:01/04/2021

2023/06172 ~ Complete ~54:BENZOAZEPINE ANALOGS AS INHIBITING AGENTS FOR BRUTON'S TYROSINE KINASE ~71:Biogen MA Inc., 225 Binney Street, CAMBRIDGE 02142, MA, USA, United States of America ~72: HOPKINS, Brian T.;LYSSIKATOS, Joseph P.;MA, Bin;MARX, Isaac;PATIENCE, Daniel B.;PETERSON, Matthew;PRINCE, Robin;ZHENG, Fengmei~ 33:US ~31:62/485,745 ~32:14/04/2017

2023/06174 ~ Complete ~54:ANTI-LY6G6D ANTIBODIES AND METHODS OF USE ~71:GENENTECH, INC., 1 DNA Way, South San Francisco, California, 94080-4990, United States of America ~72: CECILIA P.C

CHIU;CHRISTOPH SPIESS;LIPING SUN;MICHAEL ANDREW DILLON;WALTER CHRISTIAN DARBONNE;WEIYU LIN;YAN WU~ 33:US ~31:62/948,097 ~32:13/12/2019

2023/06162 ~ Provisional ~54:SICEL IMPILO ROAD SAFETY SOLUTION ~71:Muzikayifani Dhlomo, 4 Leonard Heights, 2 Leonard Street, Kenilworth,, South Africa ~72: Muzikayifani Dhlomo~

2023/06173 ~ Complete ~54:VERSATILE SYSTEM EQUIPPED WITH A PAIR OF MECHANISMS WITH ECCENTRIC ELEMENTS CAPABLE OF MOVING IN ROTATION ~71:GRANGER, Aldeia Coelha, Vila Beatriz Lt 3, Portugal ~72: GRANGER, Maurice~ 33:FR ~31:2206237 ~32:23/06/2022

2023/06159 ~ Provisional ~54:SYSTEM AND METHOD PROVIDING VIDEO SYNTHESIS CONDITIONED ON TEXT ~71:Jerry Mbuti Matjila, 4 Damant Street, South Africa ~72: Jerry Mbuti Matjila~

2023/06160 ~ Provisional ~54:AMMONIUM NITRATE LOADING CHUTE DEVICE ~71:Christo Meyer, 46 Mark street, South Africa;Comec Industries (Pty) Ltd, 43 tenth street, South Africa ~72: Christo Meyer;Gian-Mauro Moretti~

2023/06161 ~ Provisional ~54:A WRENCH ~71:MARAIS, Ebenezer, FARM STERKSPRUIT, LYDENBURG, MPUMALANGA, South Africa ~72: MARAIS, Ebenezer~

2023/06178 ~ Complete ~54:INFRARED LIGHT RECYCLING THERMOPHOTOVOLTAIC HYDROGEN ELECTRICAL POWER GENERATOR ~71:BRILLIANT LIGHT POWER, INC., 493 Old Trenton Road, Cranbury, United States of America ~72: MILLS, Randell~ 33:US ~31:63/158,349 ~32:08/03/2021;33:US ~31:63/167,110 ~32:28/03/2021;33:US ~31:63/176,054 ~32:16/04/2021;33:US ~31:63/214,236 ~32:23/06/2021;33:US ~31:63/233,199 ~32:13/08/2021;33:US ~31:63/236,198 ~32:23/08/2021

2023/06180 ~ Complete ~54:ANTI-N3PGLU AMYLOID BETA ANTIBODIES AND USES THEREOF ~71:Eli Lilly and Company, Lilly Corporate Center, INDIANAPOLIS 46285, IN, USA, United States of America ~72: FLEISHER, Adam S.;MINTUN, Mark;SIMS II, John Randall;SPARKS, JonDavid~ 33:US ~31:63/135,932 ~32:11/01/2021;33:US ~31:63/155,029 ~32:01/03/2021;33:US ~31:63/160,380 ~32:12/03/2021;33:US ~31:63/192,262 ~32:24/05/2021;33:US ~31:63/227,054 ~32:29/07/2021;33:US ~31:63/277,298 ~32:09/11/2021;33:US ~31:63/284,248 ~32:30/11/2021;33:US ~31:63/296,694 ~32:05/01/2022

2023/06184 ~ Complete ~54:LOW NI CONTENT AUSTENITIC STAINLESS STEEL WITH HIGH STRENGTH / DUCTILITY PROPERTIES ~71:ACERINOX EUROPA, S.A.U., Avenida Acerinox Europa, s/n, Polígono Industrial de Palmones, Spain;FUNDACIÓN TECNALIA RESEARCH & INNOVATION, Parque Científico y Tecnológico de Gipuzkoa Mikeletegi Pasealekua, Spain ~72: ALMAGRO BELLO, Juan F.;AMONDARAIN VELASCO, Zuriñe;CARRILLO FERNÁNDEZ, Ana Rosa;CONTRERAS FORTES, Julia;D'ANGELO, Giuseppe;GARCÍA ALONSO, José Carlos;GRIMWOOD, Joe;GUTIÉRREZ SECO, Teresa;LÓPEZ CALLE, Javier;PÉREZ BILBAO, Iñaki;SÁNCHEZ RODRÍGUEZ, Rafael;SMITH, Sullivan;TEDESCO, Michele Maria~ 33:EP ~31:20382982.5 ~32:13/11/2020

2023/06185 ~ Complete ~54:METHOD FOR DETECTING DEFECTS OF THE HORIZONTAL MOLD SEAL FOR GLASS CONTAINERS ~71:TIAMA, 215 chemin du Grand Revoyet, 69230 Saint-Genis-Laval, France ~72: JULIEN FOUILLOUX;LUBIN FAYOLLE~ 33:FR ~31:FR2013948 ~32:22/12/2020

2023/06189 ~ Complete ~54:GUCY2C BINDING MOLECULES AND USES THEREOF ~71:PARASOL BIOTECH LTD., Anhui Puyuan Biotechnology Park, Gao Xin District, Yanzihe Road No. 58, Hefei, Anhui, 230088, People's Republic of China ~72: LIN WANG;LING HE;WEI WANG~ 33:CN ~31:PCT/CN2020/137164 ~32:17/12/2020

2023/06191 ~ Complete ~54:MOBILE MOLTEN IRON DESILICONIZING AND DEPHOSPHORIZING METHOD ~71:North China University of Science and Technology, No. 21 Bohai Avenue, Caofeidian New City,, Tangshan City,, Hebei Province, People's Republic of China ~72: Caijiao Sun;Liqun Ai;Lukuo Hong;Meijie Zhou;Shen Zhang;Shuai Tong~ 33:CN ~31:2022114697167 ~32:23/11/2022

. - APPLIED ON 2023/06/13 -

2023/06214 ~ Complete ~54:METHOD FOR ENHANCING IMAGE EDGE AND CONTRAST ~71:SHANGHAI UNIVERSITY OF MEDICINE AND HEALTH SCIENCES, 279 Zhouzhu Highway, Pudong New Area,, Shanghai, 201318, People's Republic of China ~72: DHAKA, Arvind;NANDAL, Amita;WU, Tao;ZHANG, Siwen;ZHOU, Liang~

2023/06194 ~ Provisional ~54:RECOMBINANT EQUINE CHORIONIC GONADOTROPIN ~71:ADRAAIN STEFANUS STEYN, 11D Mimosa Avenue, Roodewal, South Africa ~72: LEKENA, Nkhasi;O'NEIL, Frans Hendrik;O'NEIL, Hester Gertruida;OPPERMAN, Diederik Johannes~

2023/06197 ~ Provisional ~54:OPHTHALMOLOGICAL DEVICE AND METHOD FOR CORNEAL MOULDING ~71:SAKS, Asher Abraham, 20 Pelican Parade, Melkbosstrand, 7441, SOUTH AFRICA, South Africa;SAKS, Conrad, 1122 Cardiff Ave, Apt. # 4, Los Angeles 90035, California, USA, United States of America ~72: SAKS, Asher Abraham;SAKS, Conrad~

2023/06227 ~ Complete ~54:MATERIALS AND METHODS FOR EXTENDING SHELF-LIFE OF FOODS ~71:JP LABORATORIES, INC., 120 Wood Avenue, United States of America ~72: Gordhanbhai N. PATEL;Julia Koleda NORDENBRING~ 33:US ~31:63/140,160 ~32:21/01/2021;33:US ~31:63/231,890 ~32:11/08/2021

2023/06198 ~ Complete ~54:ROUND GRANULE POTASSIUM SULFATE COMPOSITE MATERIAL AND PREPARATION METHOD AND APPLICATION THEREOF ~71:SDIC XINJIANG LUOBUPO POTASH CO.,LTD, No. 68, Jianshe West Road, Yizhou District, Hami City, Xinjiang, 839000, People's Republic of China ~72: DONG, Guangfeng;LIU, Zhongjian;LU, Liling;MA, Songliang;WANG, Zhen;WEI, Hongzhen;XIANG, Xiaocheng;YANG, Yuming~ 33:CN ~31:2022106828570 ~32:16/06/2022

2023/06202 ~ Complete ~54:PREPARATION APPARATUS FOR ROCK-LIKE SAMPLES WITH STRATIFIED STRUCTURES CONTAINING CRACKS ~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;Liyuan MA;Quan JIANG;Youliang ZHANG~ 33:CN ~31:202210691605.4 ~32:17/06/2022

2023/06203 ~ Complete ~54:FIRE CABINET ~71:CHINA CONSTRUCTION SECOND ENGINEERING BUREAU LTD, Building E, Yard 6, Automobile Museum East Road, Fengtai District, Beijing, People's Republic of China ~72: JIANG, qiang;LI, zhuyang;LIU, jin;RUAN, xinyu;SU, yulong;WANG, lei;WANG, xia;YANG, jianbing;ZHANG, ruixia;ZHU, song~ 33:CN ~31:CN202222748693.5 ~32:18/10/2022

2023/06225 ~ Complete ~54:PRECISE HEAT TREATMENT METHOD FOR LOW-CARBON LOW-ALLOY HIGHSTRENGTH THIN STEEL SHEETS ~71:BEIJING RESEARCH INSTITUTE OF MECHANICAL & ELECTRICAL TECHNOLOGY CO. , LTD.CAM, No.18 , Xueqing Road, People's Republic of China ~72: Chao JIANG;Decheng WANG;Lizhuang SUN;Ping LUO;Wei JIA;Wenliang ZHANG;Xianjun LI~ 33:CN ~31:202210483543.8 ~32:06/05/2022

2023/06196 ~ Provisional ~54:A WOUND DRESSING ~71:TRACEY LEE HAY, C/O 9th ave and De Beer Street, South Africa ~72: TRACEY LEE HAY~

2023/06206 ~ Complete ~54:FERTILIZER FOR INCREASING YIELD OF HEMEROCALLIS CITRINA BARONI AND PREPARATION METHOD THEREOF ~71:SHANXI AGRICULTURAL UNIVERSITY HIGH LATITUDE CROPS INSTITUTE, No. 18 Yingbin East Road, Datong City, Shanxi Province, 030801, People's Republic of China ~72: Ma Tao;Meng Lu;Wang Hui;Wang Li;Zhan Runsheng~ 33:CN ~31:2023105806507 ~32:23/05/2023

2023/06213 ~ Complete ~54:MOLDED IN MAGNETIC SENSOR AND SYSTEMS, ASSEMBLIES, COMPONENTS, AND METHODS THEREOF ~71:CATERPILLAR INC., 100 NE Adams Street, United States of America ~72: GOSLOVICH, Kurt S.;NUTAKKI, Satish B.;PONNUSAMY, Ananda S.~ 33:US ~31:17/122,687 ~32:15/12/2020

2023/06210 ~ Complete ~54:METHOD FOR FEEDING FREE-RANGE LOCAL CHICKENS WITHOUT ANTIBIOTICS ~71:INSTITUTE OF ANIMAL HUSBANDRY OF HEILONGJIANG ACADEMY OF AGRICULTURAL SCIENCES, NO. 368, XUEFU ROAD, NANGANG DISTRICT, People's Republic of China ~72: LI, Manyu~

2023/06215 ~ Complete ~54:USE OF MICROVIRIN IN THE IDENTIFICATION OF MYCOBACTERIUM TUBERCULOSIS MANNOSE-CAPPED LIPOARABINOMANNAN ~71:UNIVERSITY OF CAPE TOWN, Private Bag X3, Rondebosch, South Africa;VANDERBILT UNIVERSITY, 305 Kirkland Hall, 2201 West End Avenue, United States of America ~72: BLACKBURN, Jonathan Michael;KARAMCHAND, Leshern;VAN DER HORST, Megan;WRIGHT, David~ 33:US ~31:63/116,646 ~32:20/11/2020;33:GB ~31:2105804.5 ~32:23/04/2021

2023/06207 ~ Complete ~54:HIGH POWER ION BEAM GENERATOR SYSTEMS AND METHODS ~71:PHOENIX LLC, 2555 Industrial Drive, Monona, Wisconsin, 53713, United States of America ~72: ARNE KOBERNIK;CARL SHERVEN;CASEY LAMERS;CHRIS SEYFERT;EVAN SENGBUSCH;GABRIEL BECERRA;JIN LEE;LOGAN CAMPBELL;MARK THOMAS;MICHAEL TAYLOR;PRESTON BARROWS;ROSS RADEL;TYE GRIBB~ 33:US ~31:62/447,685 ~32:18/01/2017

2023/06208 ~ Complete ~54:SEQUENTIAL ACTIVATION ~71:TURNSTAR SYSTEMS (PTY) LTD, 18 6th Street, Wynberg, South Africa ~72: MALAN, John Melville~ 33:ZA ~31:2022/06221 ~32:06/06/2022

2023/06228 ~ Complete ~54:SENOTHERAPEUTIC SUBSTANCE ~71:BIONEXA S.R.L, Via Alfredo Giovine 70, Italy ~72: Claudia Giovanna LEOTTA;Giovanni Mario PITARI;Mario CORREALE;Paolo CORREALE;Venera RUSSO~ 33:IT ~31:102020000029213 ~32:12/01/2020

2023/06204 ~ Complete ~54:HIGH-YIELD CULTIVATION METHOD OF HEMEROCALLIS CITRINA BARONI ~71:SHANXI AGRICULTURAL UNIVERSITY HIGH LATITUDE CROPS INSTITUTE, No. 18 Yingbin East Road, Datong City, Shanxi Province, 030801, People's Republic of China ~72: Feng Jing;Li Xiaoyu;Wang Yuchao;Yue Xinli;Zhang Zhi~ 33:CN ~31:2023105806494 ~32:23/05/2023

2023/06217 ~ Complete ~54:METHODS OF TREATMENT FOR CYSTIC FIBROSIS ~71:VERTEX PHARMACEUTICALS INCORPORATED, 50 Northern Avenue, Boston, Massachusetts, 02210, United States of America ~72: BARTLOMIEJ BOREK;ERIC HASELTINE;NITIN NAIR;PATRICK SOSNAY;PORNTULA PANORCHAN;RUDY GUNAWAN;WEICHAO GEORGE CHEN~ 33:US ~31:63/123,928 ~32:10/12/2020;33:US ~31:63/124,575 ~32:11/12/2020;33:US ~31:63/150,434 ~32:17/02/2021

2023/06221 ~ Complete ~54:PRMTS INHIBITORS ~71:Amgen Inc., ONE AMGEN CENTER DRIVE, THOUSAND OAKS 91320-1799, CA, USA, United States of America ~72: BOOKER, Shon;BOURBEAU, Matthew Paul;BUTLER, John R.;GLAD, Sanne Omholt Schroder;LANMAN, Brian Alan;LOPEZ, Patricia;MANONI, Francesco;PETTUS, Liping H.;SARVARY, Ian;TAMAYO, Nuria A.;VESTERGAARD, Mikkel;WEIRES, Nicholas Anthony~ 33:US ~31:63/126,416 ~32:16/12/2020

2023/06229 ~ Complete ~54:OPTIMIZATION DESIGN METHOD FOR SQUEEZED BRANCH PILE BASED ON ORTHOGONAL EXPERIMENTAL DESIGN AND FINITE ELEMENT ANALYSIS ~71:SHIJIAZHUANG TIEDAO UNIVERSITY, 17 Northeast Second Inner Ring, Shijiazhuang, People's Republic of China ~72: WANG, Ziqi;ZHANG, Wenyue;ZHAO, Cunbao~ 33:CN ~31:202210654400.9 ~32:10/06/2022

2023/06209 ~ Complete ~54:DIGITAL LICENCE DISC SYSTEM ~71:NGANWA, Philip Joseph Kanyamuny, 60 Annabella, Montrose Road, Barbeque Downs, SUNNINGHILL, Johannesburg 2157, Gauteng, SOUTH AFRICA, South Africa ~72: NGANWA, Philip Joseph Kanyamuny~ 33:ZA ~31:2022/06502 ~32:13/06/2022

2023/06219 ~ Complete ~54:LATERAL FLOW ASSAY FOR DETECTION OF MONENSIN ~71:HUVEPHARMA INC., 525 Westpark Drive Suite 230 Peachtree City, Georgia, 30269, United States of America ~72: MARY M MCILHANEY;RYAN L VANDER VEEN;THOMAS W CAMPI~ 33:US ~31:63/124,551 ~32:11/12/2020

2023/06223 ~ Complete ~54:OXYTOCIN RECEPTOR MODULATORS ~71:Kinoxis Therapeutics Pty Ltd, Suite 201, 697 Burke Road, CAMBERWELL 3124, VICTORIA, AUSTRALIA, Australia ~72: AFZALI, Kiyan;KASSIOU, Michael;KATTE, Timothy;REEKIE, Tristan;WERRY, Eryn~ 33:AU ~31:2020904677 ~32:14/12/2020

2023/06226 ~ Complete ~54:SULFONE DERIVATIVE PRODUCTION METHOD ~71:KUMIAI CHEMICAL INDUSTRY CO., LTD, 4-26, Ikenohata 1-chome, Japan ~72: SHIKAMA, Daisuke;TAKIZAWA, Kai;TANI, Shinki~ 33:JP ~31:PCT/JP2020/048082 ~32:23/12/2020

2023/06193 ~ Provisional ~54:MODULAR FLOATING MOUNT FOR A FLOATING SOLAR POWER PLANT ~71:TPS Global (Pty) Limited, 49 Bakwena Avenue, Irene, South Africa ~72: CORBETTA, Matteo;STEGEN, Bastian;SWARDT, Nicholas Jacobus;WIID, Wayne Henry~

2023/06199 ~ Complete ~54:METHOD FOR PRODUCING VARIOUS POTASH MAGNESIUM SULFATE FERTILIZER PRODUCTS IN CUSTOMIZED MANNER ACCORDING TO DIFFERENT NUTRIENT REQUIREMENTS ~71:SDIC XINJIANG LUOBUPO POTASH CO.,LTD, No. 68, Jianshe West Road, Yizhou District, Hami City, Xinjiang, 839000, People's Republic of China ~72: DONG, Guangfeng;FANG, Jingrong;HUANG, Lixue;MA, Songliang;WANG, Zhen;WEI, Hongzhen;XIANG, Xiaocheng~ 33:CN ~31:2022113154125 ~32:26/10/2022

2023/06201 ~ Complete ~54:USE OF AGONISTS OF FORMYL PEPTIDE RECEPTOR 2 FOR TREATING OCULAR INFLAMMATORY DISEASES ~71:ALLERGAN, INC., 2525 Dupont Drive, Irvine, United States of America ~72: BEARD, Richard, L.;DONELLO, John, E.;VISWANATH, Veena~ 33:US ~31:61/773,773 ~32:06/03/2013

2023/06216 ~ Complete ~54:VIDEO CODING METHOD AND SYSTEM, VIDEO ENCODER, AND VIDEO DECODER ~71:GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., No. 18, Haibin, Wusha, Chang'an Dongguan, Guangdong, 523860, People's Republic of China ~72: FAN WANG~

2023/06211 ~ Complete ~54:PHARMACEUTICAL COMBINATIONS COMPRISING A PEPTIDE CXCR4 INHIBITOR AND A TAXANE FOR TREATING CANCER ~71:SPEXIS AG, HEGENHEIMERMATTWEG 125, 4123 ALLSCHWIL, SWITZERLAND, Germany ~72: ZIMMERMANN, Johann~ 33:EP ~31:20020545.8 ~32:19/11/2020;33:EP ~31:21020122.4 ~32:03/03/2021

2023/06220 ~ Complete ~54:SMALL MOLECULE COMPOUNDS AND COMPOSITIONS ~71:Telo Therapeutics, Inc., 953 Indiana Street San Francisco, California 94107, 94107, USA, United States of America ~72: BELL, Robert Joseph Allen;HALL, Adrian;HEALY, Mark Patrick;KULKARNI, Santosh;LIVERMORE, David George Hubert;MYATT, James William;SIME, Mairi;WIDDOWSON, Katherine~ 33:US ~31:63/115,650 ~32:19/11/2020;33:US ~31:63/162,049 ~32:17/03/2021;33:US ~31:63/278,041 ~32:10/11/2021

2023/06224 ~ Complete ~54:H4 ANTAGONIST COMPOUNDS ~71:Heptares Therapeutics Limited, Granta Park, Great Abington, CAMBRIDGE CB21 6DG, CAMBRIDGESHIRE, UNITED KINGDOM, United Kingdom ~72: BAYRAKDARIAN, Malken;BEAUDION, Daniel;BROWN, Giles Albert;CONGREVE, Miles Stuart;FIELDHOUSE, Charlotte;KARILA, Delphine;PICKWORTH, Mark;SWAIN, Nigel Alan;TEOBALD, Barry~ 33:GB ~31:2019667.1 ~32:14/12/2020

2023/06195 ~ Provisional ~54:WIRED INTERFACE ~71:DETNET SOUTH AFRICA (PTY) LTD, AECI Place, The Woodlands, Woodlands Drive, Woodmead, South Africa ~72: MEYER, Tielman Christiaan~

2023/06200 ~ Complete ~54:FORMULA OF PLANT-DERIVED ATTRACTANT ~71:Shanxi Academy of Forestry and Grassland Sciences, No. 105 Xinjian South Road, Taiyuan City, Shanxi Province, P.R., 030012, People's Republic of China ~72: CUI Yaqin;GU Sisi;GUO Tengjiao;JIA Junfeng;MA Zhijun;WU Jing;YANG Yanqing;ZHANG Caihong~

2023/06218 ~ Complete ~54:MUSCLE TARGETING COMPLEXES AND USES THEREOF FOR TREATING MYOTONIC DYSTROPHY ~71:DYNE THERAPEUTICS, INC., 1560 Trapelo Road Waltham, Massachusetts, 02451, United States of America ~72: BRENDAN QUINN;CODY A DESJARDINS;JOHN NAJIM;KIM TANG;MOHAMMED T QATANANI;ROMESH R SUBRAMANIAN;STEFANO ZANOTTI;TIMOTHY WEEDEN~ 33:US ~31:63/133,013 ~32:31/12/2020;33:US ~31:63/179,100 ~32:23/04/2021;33:US ~31:63/245,262 ~32:17/09/2021

2023/06222 ~ Complete ~54:BORON CONTAINING PYRAZOLE COMPOUNDS, COMPOSITIONS COMPRISING THEM, METHODS AND USES THEREOF ~71:Boehringer Ingelheim Animal Health USA Inc., 3239 Satellite Blvd., DULUTH 30096, GA, USA, United States of America;Borah, Inc., 3835 Cleghom Ave., Suite 300, NASHVILLE 37215, TN, USA, United States of America ~72: GRAHAM, Keith Andrew Newton;LIU, Chun Yu;LIU, Chunliang;LONG, Alan;PULLEY, Shon R.;ZHOU, Yasheen~ 33:US ~31:63/127,329 ~32:18/12/2020

2023/06205 ~ Complete ~54:METHOD FOR REDUCING PHOSPHORUS LEACHING IN GREENHOUSE VEGETABLE PRODUCTION SYSTEM BY INPUTTING ORGANIC MATERIALS ~71:Shandong Academy of Agricultural Sciences, Gongye North Road 23788, Jinan, ShandongProvince, 250100, People's Republic of China ~72: Li Yan;Liu Shenglin;Shi Ning;Sun Zeqiang;Zhong Ziwen~ 33:CN ~31:2022109411526 ~32:08/08/2022

2023/06212 ~ Complete ~54:SYSTEMS, METHODS, AND APPARATUSES FOR IDENTIFYING GROUNDWATER DURING ROCK DRILL CUTTING ~71:CATERPILLAR GLOBAL MINING EQUIPMENT LLC, 3501 S. FM Highway 1417, United States of America ~72: HOWELL, Ryan;PETERSON, James~ 33:US ~31:17/122,131 ~32:15/12/2020

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2023/06242 ~ Complete ~54:NOVEL FORMULATION FOR ORAL ADMINISTRATION, COMPRISING 1-(5-(2,4-DIFLUOROPHENYL)-1-((3-FLUOROPHENYL)SULFONYL)-4-METHOX Y-1H-PYRROL-3-YL)-N-METHYLMETHANAMINE ~71:DAEWOONG PHARMACEUTICAL CO., LTD., 5-14, Jeyakgongdan 4-gil, Hyangnam-eup, South Africa ~72: HA, Songyi;JANG, Hye Jung;KIM, Gwan Young;KIM, Gyoung Won;KUK, Do Hoon~ 33:KR ~31:10-2020-0178281 ~32:18/12/2020

2023/06254 ~ Complete ~54:ORAL DELIVERY OF ANTISENSE CONJUGATES TARGETING PCSK9 ~71:CiVi Biopharma, Inc., 5425 Wisconsin Avenue, CHEVY CHASE 20815, MD, USA, United States of America ~72: NOBLE, Stewart Alwyn;OERUM, Henrik;SHEAR, Charles Lester~ 33:US ~31:63/124,581 ~32:11/12/2020;33:US ~31:63/134,884 ~32:07/01/2021;33:US ~31:63/178,340 ~32:22/04/2021;33:US ~31:63/261,505 ~32:22/09/2021

2023/06233 ~ Complete ~54:GEODETIC SURVEY SYSTEM ~71:North China University of Science and Technology, 21 Bohai Road, Xincheng, Caofeidian, Tangshan City, Hebei Province, 063210, People's Republic of China ~72: HOU, Jinliang;WU, Fenghua;YANG, Jiudong~

2023/06240 ~ Complete ~54:COMPOSITIONS FOR TREATING INFECTIVE ARTERIAL DISEASES AND RELATED CONDITIONS ~71:CENTRE FOR DIGESTIVE DISEASES, Level 1, 229 Great North Road Five Dock, Australia ~72: BORODY, Thomas Julius~ 33:US ~31:62/625,259 ~32:01/02/2018

2023/06241 ~ Complete ~54:ARTIFICIAL BREEDING METHOD FOR CHELONUS FORMOSANUS SONAN ~71:THE INSTITUTE OF PLANT PROTECTION, HAINAN ACADEMY OF AGRICULTURAL SCIENCES（RESEARCH CENTER OF QUALITY SAFETY AND STANDARDS FOR AGRICULTURAL PRODUCTS OF HAINAN ACADEMY OF AGRICULTURAL SCIENCES), No. 14 Xingdan Road, Qiongshan District, Haikou City, Hainan Province, 571199, People's Republic of China ~72: Haiyan CHEN;Jingjing JIA;Luchao WANG;Shuang QIN;Weikang HUANG;Xuncong JI;Zhufeng LIN~

2023/06246 ~ Complete ~54:COMPUTER-IMPLEMENTED METHOD FOR DETERMINING A SUSTAINABILITY SCORE ~71:BASF SE, CARL BOSCH STRASSE 38, 67056 LUDWIGSHAFEN AM RHEIN, GERMANY, Germany ~72: BEIL, Christian;ELTZE, Tobias;HOH, Li, Noi, Lilian;KELLER, Robert, Anthony;KELLER, Wilhelm;KUHN, Oliver;LEED, Marina, Grace, Dickens;LEINO CALLEJA, David;PAHNKE, Kai;REICH, Oliver;SATHYANARAYANA, Shyam, Sundar;SOLFRANK, Martina;TUERKOGLU, Gazi~ 33:EP ~31:20209008.0 ~32:20/11/2020

2023/06251 ~ Complete ~54:FABRICATION OF PROTEIN-ENCAPSULATING MICROGELS ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: CHEN, Hunter;ZHAO, Yiming~ 33:US ~31:63/127,033 ~32:17/12/2020

2023/06256 ~ Complete ~54:DEVICE, SYSTEM, AND METHOD FOR CARBON DIOXIDE CAPTURE IN HUMID CONDITIONS ~71:Arizona Board of Regents on behalf of Arizona State University, SkySong, 1475 N. Scottsdale Road, Suite 200, SCOTTSDALE 85257, AZ, USA, United States of America ~72: CIRUCCI, John;LACKNER, Klaus~ 33:US ~31:63/123,219 ~32:09/12/2020

2023/06267 ~ Complete ~54:SYSTEMS AND METHODS FOR ACCESSING DATA ENTITIES MANAGED BY A DATA PROCESSING SYSTEM ~71:AB INITIO TECHNOLOGY LLC, 201 Spring Street, Lexington, Massachusetts, 02421, United States of America ~72: HALLDOR ISAK GYLFASON;ROBERT PARKS~ 33:US ~31:63/143,895 ~32:31/01/2021

2023/06258 ~ Complete ~54:SYSTEMS AND METHODS FOR MIXING SYRINGE VALVE ASSEMBLIES ~71:Tolmar International Limited, 10 Earlsfort Terrace, DUBLIN 2 D02 T380, IRELAND, Ireland ~72: ABOUDAGHER, Hossam;BINGHAM, John;DEAN, Casey;HART, Carl;SHERMAN, James~ 33:US ~31:63/130,144 ~32:23/12/2020

2023/06266 ~ Complete ~54:SOLID PHARMACEUTICAL COMPOSITIONS AND METHODS OF PRODUCING THE SAME ~71:GALVITA AG, Mattenstrasse 22, 4058, Basel, Switzerland ~72: MARC PFISTER;MAXIM PUCHKOV;ROLAND HAAG~ 33:EP ~31:21154125.5 ~32:28/01/2021

2023/06245 ~ Complete ~54:BIOLOGICALLY DEGRADABLE MULTI-COMPONENT POLYMER FIBRES ~71:INDORAMA VENTURES PUBLIC COMPANY LTD, 75/102 Ocean Tower 2, 37th Floor, Sukhumvit Soi 19, Thailand ~72: BLECH, Bernd;CAMPBELL, James;CARTER, Nick;CHUSHENG, Li;DAHRINGER, Jörg;DESAI, Prashant;ENGELHARDT, Peter;ERGUNEY, Fatih;GRASSER, Werner;GUTMANN, Patrick;KLINT, Søren;NELSON, DeeAnn;PEDERSEN, Bjørn~ 33:US ~31:63/137,901 ~32:15/01/2021;33:US ~31:63/143,247 ~32:29/01/2021

2023/06269 ~ Complete ~54:FILTER PRESS WITH MULTI-FUNCTION ROBOT FOR MAINTENANCE, TRACKING AND WEAR CONTROL OF FILTERING SEPTA ~71:DIEMME FILTRATION S.R.L., Via Gessi 16, 48022, Lugo (Ravenna), Italy ~72: ANDREA BASSI;DAVIDE COLLINI;ROBERTO DARDI~ 33:IT ~31:102021000001145 ~32:22/01/2021

2023/06265 ~ Complete ~54:PULSATILE RELEASE CAFFEINE FORMULATION ~71:GALVENTA AG, Teufenerstrasse 111, 9000, St. Gallen, Switzerland ~72: ASLIHAN ARSLAN;FIRAT YERLIKAYA~ 33:EP ~31:21151905.3 ~32:15/01/2021

2023/06260 ~ Complete ~54:FORMULATION COMPRISING P-MENTHANE-3,8-DIOL ~71:Workforce Biologics Ltd, P.O. Box 12887, BISHOPS STORTFORD CM23 9NE, HERTFORDSHIRE, UNITED KINGDOM, United Kingdom ~72: WOODRUFF, John~ 33:GB ~31:2020461.6 ~32:23/12/2020;33:GB ~31:2108165.8 ~32:08/06/2021

2023/06230 ~ Provisional ~54:METHOD OF, AND SYSTEM FOR, PREDICTING SOLAR IRRADIANCE ~71:TSHWANE UNIVERSITY OF TECHNOLOGY, Building 20, Office 133 Staatsartillery Road, Pretoria, Gauteng, 0002, South Africa ~72: SIPHO CALVIN MLANGENI~

2023/06232 ~ Provisional ~54:A COVER FOR GOLF CLUBS ~71:CHRISTOFFEL JOHANNES HENZE DE WET, 10 Casten road, Groenvlei, South Africa ~72: CHRISTOFFEL JOHANNES HENZE DE WET~

2023/06235 ~ Complete ~54:EUCOMMIA ULMOIDES OIL SOAP AND PREPARATION METHOD THEREOF ~71:Research Institute of Non-timber Forestry, Chinese Academy of Forestry, No. 3, Weiwu Road, Jinshui District, Zhengzhou City, Henan Province, 450003, People's Republic of China ~72: DU, Hongyan;DU, Lanying;DU, Qingxin;LIU, Panfeng;SUN, Zhiqiang;WANG, Lu;WANG, Yan~

2023/06248 ~ Complete ~54:USE OF SUGAR CANE EXTRACTS IN THE TREATMENT OR PREVENTION OF MICROBIAL INFECTIONS AND DYSBIOSIS ~71:POLY GAIN PTE LTD, NO. 1 UBI VIEW, #04-35, FOCUS ONE, 408555, SINGAPORE, SINGAPORE, Singapore ~72: FLAVEL, Matthew;KITCHEN, Barry;MACNAB, Gregor;MITCHELL, Shane~ 33:AU ~31:2020904323 ~32:23/11/2020

2023/06234 ~ Complete ~54:PROTECTIVE STRUCTURE FOR RAILWAY SUBGRADE ~71:China Railway International Group Co., Ltd., Room 107, 1st Floor, Building 3, No. 20, Yong'an Road, Shilong Economic Development Zone, Mentougou District, Beijing, 102300, People's Republic of China ~72: JI, Youping;WANG, Linlin~ 33:CN ~31:2022218756140 ~32:19/07/2022

2023/06238 ~ Complete ~54:PORTABLE COMMUNICATION DEVICE INCLUDING SEALING MEMBER ~71:SAMSUNG ELECTRONICS CO., LTD., 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea ~72: CHIJOON KIM;HYOSUNG LA;JINGOOK KIM;JUNGWON PARK;JUNYOUNG CHOI;SEUNGJOON LEE;SEUNGWHEE CHOI;SUMAN LEE;SUNGHUN KIM;YOUNGMIN KANG;YUNSIK KIM~ 33:KR ~31:10-2019-0064725 ~32:31/05/2019;33:KR ~31:10-2019-0087766 ~32:19/07/2019;33:KR ~31:10-2019-0108733 ~32:03/09/2019;33:KR ~31:10-2020-0002991 ~32:09/01/2020

2023/06259 ~ Complete ~54:AEROSOL GENERATING DEVICE ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: HODGSON, Matthew;KORUS, Anton;MOLONEY, Patrick;WARREN, Luke~ 33:GB ~31:2020398.0 ~32:22/12/2020

2023/06257 ~ Complete ~54:SYSTEM AND METHOD FOR EFFICIENT CARBON DIOXIDE CAPTURE ~71:Arizona Board of Regents on behalf of Arizona State University, SkySong, 1475 N. Scottsdale Road, Suite 200, SCOTTSDALE 85257, AZ, USA, United States of America ~72: CIRUCCI, John;LACKNER, Klaus~ 33:US ~31:63/123,219 ~32:09/12/2020

2023/06262 ~ Complete ~54:CONTAINER FOR RECEIVING RADIOACTIVE WASTE MATERIALS ~71:GNS GESELLSCHAFT FÜR NUKLEAR-SERVICE MBH, Frohnhauser Straße 67, 45127, Essen, Germany ~72: BENJAMIN JECH;BERTHOLD KLÖHN;TOBIAS FISCHER-WASELS~ 33:EP ~31:20214907.6 ~32:17/12/2020

2023/06264 ~ Complete ~54:FUNGICIDAL OXADIAZOLES AND THEIR MIXTURES ~71:FMC CORPORATION, 2929 Walnut Street, Philadelphia, Pennsylvania, 19104, United States of America ~72: BALREDDY KAMIREDDY;BYRON VEGA-JIMENEZ;RAVISEKHARA P REDDY;ROBERT JAMES PASTERIS;SRINIVAS CHITTABOINA;SRINIVASA RAO UPPALAPATI;TRAVIS CHANDLER MCMAHON~ 33:US ~31:63/127,068 ~32:17/12/2020

2023/06252 ~ Complete ~54:HIV VACCINES AND METHODS OF USING ~71:GILEAD SCIENCES, INC., 333 Lakeside Drive, Foster City, United States of America ~72: BOOPATHY, ARCHANA V.;LI, JIANI;LIU, XINAN;MAKADZANGE, AZURE T.;MARTIN, STEPHEN R.;SCHMIDT, SARAH;SHEHATA, HESHAM;STEMESEDER, FELIX;SVAROVSKAIA, EVGUENIA~ 33:US ~31:63/137,521 ~32:14/01/2021;33:US ~31:63/149,820 ~32:16/02/2021;33:US ~31:63/170,900 ~32:05/04/2021

2023/06261 ~ Complete ~54:AEROSOL GENERATING DEVICE ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: HODGSON, Matthew;KORUS, Anton;MOLONEY, Patrick;WARREN, Luke~ 33:GB ~31:2020393.1 ~32:22/12/2020

2023/06253 ~ Complete ~54:FUEL PELLETS/COMPACTS SURROUNDED BY BERYLLIUM-BASED (BE OR BEO OR BE2C) SLEEVE FOR USE IN A MICRO-REACTOR ~71:Westinghouse Electric Company LLC, 1000 Westinghouse Drive, Suite 141, CRANBERRY TOWNSHIP 16066, PA, USA, United States of America ~72: LEVINSKY, Alex~ 33:US ~31:17/108,602 ~32:01/12/2020

2023/06255 ~ Complete ~54:METHOD OF PACKING VARIETY PACKS OF BEVERAGES ~71:Anheuser-Busch, LLC, One Busch Place, ST. LOUIS 63118, MO, USA, United States of America ~72: DE LA ROSA, Mark;GRASS, Carl;MORGAN, Al;PETRIE, Rich~ 33:US ~31:63/126,232 ~32:16/12/2020;33:US ~31:17/643,961 ~32:13/12/2021

2023/06271 ~ Provisional ~54:SHOE AND APPAREL PROTECTOR ~71:ZWELAKHE WISTON MAHLANGU, 1731B PHALAFALA STREET, MOLAPO EXTENSION , P.O CHIAWELO, South Africa ~72: ZWELAKHE WISTON MAHLANGU~

2023/06243 ~ Complete ~54:COMPOSITION OF FLUROCLORIDONE IN MICROEMULSION FORM ~71:SURCOS IMPACT, 89b, Rue Pafebruch, Luxembourg ~72: GALÁN ROMANO, Félix Silvestre~ 33:AR ~31:P20200103543 ~32:18/12/2020

2023/06263 ~ Complete ~54:APPARATUS AND METHOD FOR INSECT BREEDING ~71:INSECTUM APS, c/o David Munk-Bogballe, Fastrupvej 5, Fastrup, 8830, Tjele, Denmark ~72: DAVID MUNK-BOGBALLE~ 33:EP ~31:20209217.7 ~32:23/11/2020

2023/06268 ~ Complete ~54:MASITINIB FOR THE TREATMENT OF ALZHEIMER'S DISEASE ~71:AB SCIENCE, 3 avenue George V, 75008, Paris, France ~72: ALAIN MOUSSY;COLIN MANSFIELD~ 33:EP ~31:20306589.1 ~32:16/12/2020

2023/06231 ~ Provisional ~54:BUOY AND BUOY ASSEMBLY ~71:COCHRANE USA INC, 3551 Lee Hill Dr, Fredericksburg, United States of America ~72: TBA~

2023/06237 ~ Complete ~54:RECOMBINANT NUCLEIC ACIDS ENCODING COSMETIC PROTEIN(S) FOR AESTHETIC APPLICATIONS ~71:Krystal Biotech, Inc., 2100 Wharton Street, Suite 701, PITTSBURGH 15203, PA, USA, United States of America ~72: AGARWAL, Pooja;KRISHNAN, Suma;PARRY, Trevor~ 33:US ~31:62/663,476 ~32:27/04/2018

2023/06250 ~ Complete ~54:METHODS FOR TREATING PEANUT ALLERGY AND ENHANCING PEANUT ALLERGEN-SPECIFIC IMMUNOTHERAPY BY ADMINISTERING AN IL-4R ANTAGONIST ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America;SANOFI BIOTECHNOLOGY, 54, rue La Boetie, France ~72: ORENGO, Jamie M;RADIN, Allen;RUDDY, Marcella;STAUDINGER, Heribert;WANG, Qiufan~ 33:US ~31:63/135,238 ~32:08/01/2021;33:EP ~31:21315241.6 ~32:10/11/2021

2023/06270 ~ Complete ~54:DRUGS, THERAPEUTIC COMBINATIONS AND METHODS FOR PREVENTING VIRAL AND MICROBIAL INFECTIONS AND THEIR SEQUELAE ~71:TOPELIA AUST LIMITED, Level 1, 229 Great North Road, Australia ~72: BORODY, Thomas Julius~ 33:US ~31:63/128,152 ~32:20/12/2020;33:US ~31:63/178,671 ~32:23/04/2021;33:US ~31:63/215,041 ~32:25/06/2021;33:US ~31:63/223,432 ~32:19/07/2021;33:US ~31:63/241,498 ~32:07/09/2021;33:US ~31:63/257,192 ~32:19/10/2021

2023/06244 ~ Complete ~54:BORATE DERIVATIVE AND USES THEREOF ~71:REISTONE BIOPHARMA COMPANY LIMITED, Room 203, No.1 Building, No.298 Xiangke Road, Free Trade Pilot Zone, People's Republic of China ~72: HAO, Xin;LIU, Sang;WANG, Zhongli~ 33:CN ~31:202011558776.7 ~32:25/12/2020;33:CN ~31:202110356037.8 ~32:01/04/2021;33:CN ~31:202111419717.6 ~32:26/11/2021

2023/06239 ~ Complete ~54:SNUBBER FOR EXCAVATOR BUCKET DOOR ~71:MINETEC S.A., Av. Américo Vespucio 2101, Renca, Chile ~72: VERA TORRES, Bernardo Luis;ZALDÍVAR ESPINOZA, Cristian Francisco;ZAMORANO JONES, Claudio Devon~ 33:CL ~31:202201620 ~32:15/06/2022

2023/06247 ~ Complete ~54:COMPUTER-IMPLEMENTED METHOD FOR SORTING OF PLASTIC COMPOUNDS ~71:BASF SE, CARL BOSCH STRASSE 38, 67056 LUDWIGSHAFEN AM RHEIN, GERMANY, Germany ~72: BEIL, Christian;ELTZE, Tobias;HOH, Li, Noi, Lilian;KELLER, Robert, Anthony;KELLER, Wilhelm;KUHN, Oliver;LEED, Marina, Grace, Dickens;LEINO CALLEJA, David;PAHNKE, Kai;REICH, Oliver;SATHYANARAYANA, Shyam, Sundar;SOLFRANK, Martina;TUERKOGLU, Gazi~ 33:EP ~31:20209008.0 ~32:20/11/2020;33:EP ~31:20216014.9 ~32:21/12/2020

2023/06236 ~ Complete ~54:MULTIFUNCTIONAL POLICE SHIELD ~71:MERRY WISER (JINHUA) TECHNOLOGY DEVELOPMENT CO., LTD, ROOM 9-07-08, BUILDING 1, HENGFENG BUILDING, SHUANGXI WEST ROAD, JIANGNAN STREET, People's Republic of China;XINGZHI COLLEGE ZHEJIANG NORMAL UNIVERSITY, NO. 3388, YINGBIN AVENUE, People's Republic of China ~72: CAI, Wanfeng;DUAN, Zhizhuang;HUANG, Ruiyang;HUANG, Yuyun;LIN, Guchong~ 33:CN ~31:2022117440060 ~32:30/12/2022

2023/06249 ~ Complete ~54:USE OF VACCINE COMPOSITIONS BASED ON SARS-COV-2 RECEPTOR BINDING DOMAIN IN DELIVERING PROTECTIVE IMMUNITY ~71:CENTRO DE INMUNOLOGÍA MOLECULAR, CALLE 216 ESQ. 15, ATABEY, PLAYA, LA HABANA, HABANA 11 300, CUBA, Cuba;INSTITUTO FINLAY DE VACUNAS, AVENIDA 21 ENTRE 198 Y 200, NÚMERO 19810, ATABEY, PLAYA, LA HABANA, C.P. 11600, CUBA, Cuba ~72: CHANG MONTEAGUDO, Arturo;CLIMENT RUIZ, Yanet;DÍAZ HERNÁNDEZ, Mariannis;DUBED ECHEVERRÍA, Marta;GARCÍA RIVERA, Dagmar;GONZÁLEZ RODRÍGUEZ, Humberto;LEÓN MONZÓN, Kalet;MACIAS ABRAHAM, Consuelo, Milagro;OCHOA AZZE, Rolando;OJITO MAGAZ, Eduardo;OROSA VAZQUEZ, Ivette;PORTO GONZÁLEZ, Delia, Esther;RODRÍGUEZ ACOSTA, Mireida;SÁNCHEZ

RAMÍREZ, Belinda;VALDÉS BALBÍN, Yury;VEREZ BENCOMO, Vicente Guillermo~ 33:CU ~31:2020-0101 ~32:16/12/2020

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2023/06273 ~ Provisional ~54:A VIRTUAL VISUALISATION SYSTEM ~71:COLLETT, Lenore, Winifred, 1071 HILLTOP, OUBAAI GOLF ESTATE, HEROLDS BAY, GEORGE, WESTERN CAPE 6529, SOUTH AFRICA, South Africa;MARX, Dorian, 2 PAUL SAUER STREET, ROZENDAL, STELLENBOSCH, WESTERN CAPE, 7600, SOUTH AFRICA, South Africa ~72: COLLETT, Lenore, Winifred;MARX, Dorian~

2023/06277 ~ Complete ~54:NEW TYPE OF STABLE FERTILIZER FOR GREENHOUSE GAS EMISSION REDUCTION ~71:Liaoning Academy of Agricultural Sciences, No. 84 Dongling Road, Shenhe District, Shenyang City, Liaoning Province, 110065, People's Republic of China ~72: BAO Hongjing;GONG Liang;XU Jiayi;YE Xin;ZOU Xiaojin~ 33:CN ~31:2023102811787 ~32:22/03/2023

2023/06291 ~ Complete ~54:REPLACEABLE CARTRIDGE FOR BREATHALYZER ~71:BREATHABLOK LIMITED, 2nd Floor, Lyttleton Road, United Kingdom ~72: SULLIVAN, Alan, John~ 33:NL ~31:2027159 ~32:18/12/2020

2023/06293 ~ Complete ~54:THREE RESERVOIR ELECTRIC THERMAL ENERGY STORAGE SYSTEM ~71:SUPERCRITICAL STORAGE COMPANY, INC., 16192 Coastal Highway, Lewes, Sussex County, Delaware, 19958, United States of America ~72: TIMOTHY HELD~ 33:US ~31:63/123,266 ~32:09/12/2020;33:US ~31:17/546,963 ~32:09/12/2021

2023/06295 ~ Complete ~54:ANTAGONISTS OF THE MUSCARINIC ACETYLCHOLINE RECEPTOR M4 ~71:VANDERBILT UNIVERSITY, 305 Kirkland Hall 2201 West End Avenue, Nashville, TN 37240, United States of America ~72: AARON M BENDER;CORI A MALINKY;CRAIG W LINDSLEY;MATTHEW SPOCK;MELISSA A KORKMAZ-VAISYS;P. JEFFREY CONN~ 33:US ~31:63/129,196 ~32:22/12/2020;33:US ~31:63/170,899 ~32:05/04/2021;33:US ~31:63/208,877 ~32:09/06/2021;33:US ~31:63/284,750 ~32:01/12/2021

2023/06275 ~ Complete ~54:METHOD FOR SULFURIZING LEAN COPPER-NICKEL SULFIDE ORE ~71:Lanzhou University of Technology, Lanzhou University of Technology, No. 287, Langongping Road, Qilihe District, Lanzhou City, Gansu Province, 730050, People's Republic of China;State Key Laboratory of Nickel and Cobalt Resources Comprehensive Utilization, State Key Laboratory of Nickel and Cobalt Resources Comprehensive Utilization, No. 39, Jinchuan West Road, Jinchuan District, Jinchang City, Gansu Province, 737102, People's Republic of China ~72: CHEN, Guoju;CHEN, Qian;CHENG, Shaoyi;FENG, Yan;GUO, Wenbo;LIU, Tianyue;LU, Bingang;LU, Sujun;MA, Yutian;SHEN, Yingying;SU, Yujuan;SUN, Yuanjun;WANG, Yufang;ZHANG, Juan;ZHANG, Peng;ZHAO, Xianshao~

2023/06280 ~ Complete ~54:WASTE MANAGEMENT SYSTEM ~71:ELECTRI - COAL TECHNOLOGIES (PTY) LTD, 51 MDONI CRESCENT RAINBOW GARDENS HILLTOP GARDENS WYEBANK KLOOP, South Africa ~72: NDLELA, MFANELO S'PHELELE~ 33:ZA ~31:2022/07455 ~32:06/07/2022

2023/06285 ~ Complete ~54:ANTI-FALLING FENCE HUNG EXTERNALLY ON SIDE WALL OF WIND VANE TOWER BARREL ~71:Huaneng Tongliao Wind Power Co. Ltd, Intersection of Qinglongshan Street and Shengli North Road, Tongliao City 028000, Inner Mongolia, CHINA (P.R.C.), People's Republic of China ~72: Dai, Yaliang;Geng, Jinfu;Han, Xiao;Zhang, Hongxin~ 33:CN ~31:2022106828941 ~32:16/06/2022

2023/06287 ~ Complete ~54:COMPOSITIONS OF MODIFIED TREMS AND USES THEREOF ~71:FLAGSHIP PIONEERING, INC., 55 Cambridge Parkway, 8th Floor, Suite 800E, United States of America ~72: ANASTASSIADIS, Theonie;BUTLER, David, Charles Donnell;KUBICA, Neil;LI, Qingyi;WANG,

Guangliang;WETIE, Armand Gatien Ngounou~ 33:US ~31:63/130,373 ~32:23/12/2020;33:US ~31:63/130,374 ~32:23/12/2020;33:US ~31:63/130,375 ~32:23/12/2020;33:US ~31:63/130,377 ~32:23/12/2020;33:US ~31:63/130,381 ~32:23/12/2020;33:US ~31:63/130,387 ~32:23/12/2020

2023/06296 ~ Complete ~54:NOVEL QUINAZOLINE DERIVATIVE COMPOUND AS SOS1 INHIBITOR, AND USE THEREOF ~71:HANMI PHARMACEUTICAL CO., LTD., 214, Muha-ro, Paltan-myeon, Hwaseong-si, Gyeonggi-do, 18536, Republic of Korea ~72: IN HWAN BAE;JAE YUL CHOI;JI SOOK KIM;MIN JEONG KIM;WON GI PARK;WON JEOUNG KIM;YOUNG GIL AHN~ 33:KR ~31:10-2020-0180879 ~32:22/12/2020;33:KR ~31:10-2021-0123208 ~32:15/09/2021

2023/06306 ~ Complete ~54:RNA CONSTRUCT ~71:Imperial College Innovations Limited, Level 1 Faculty Building, c/o Imperial College, Exhibition Road, LONDON SW7 2AZ, UNITED KINGDOM, United Kingdom;VaxEquity Ltd, The Mansion, Chesterford Research Park, LITTLE CHESTERFORD CB10 1XL, ESSEX, UNITED KINGDOM, United Kingdom ~72: HARPER, Elaine;MCKAY, Paul;SHATTOCK, Robin;WATSON (Deceased), Michael~ 33:GB ~31:2020061.4 ~32:17/12/2020

2023/06301 ~ Complete ~54:SUTHERLANDIA EXTRACT AND THE USE THEREOF IN THE MANUFACTURE OF A MEDICAMENT ~71:ACUPHARM INTERNATIONAL PROPRIETARY LIMITED, Plot 762, Botswana Road, Botswana;BARAVALLE, Ursula, Antonella, Davey, 5 Inanda Greens Business Park, 54 Wierda Road West, South Africa ~72: LaPORTA, James Clive Hurwitz;MARAIS, Johannes Francois;VAN JAARSVELD, Jacobus Johannes~ 33:NL ~31:2027158 ~32:18/12/2020

2023/06303 ~ Complete ~54:RIBBED SLAB FOUNDATION FOR CYLINDRICAL REFRIGERATED TANKS FOR LIQUIFIED GAS STORAGE ~71:TECHNIP ENERGIES FRANCE SAS, 2126 Boulevard de La Défense, Immeuble Origine, France;TECHNIP ENERGIES ITALY S.P.A., Viale Castello della Magliana 68, Italy ~72: COLONE, Valerio;LOPRIORE, Paolo;ROMANO, Maria Carmela;SELLARO, Mario~ 33:IT ~31:102020000030440 ~32:10/12/2020

2023/06305 ~ Complete ~54:PHARMACEUTICAL COMPOUNDS ~71:Heptares Therapeutics Limited, Granta Park, Great Abington, CAMBRIDGE CB21 6DG, CAMBRIDGESHIRE, UNITED KINGDOM, United Kingdom ~72: CONGREVE, Miles Stuart;FIELDHOUSE, Charlotte~ 33:GB ~31:2020191.9 ~32:18/12/2020

2023/06308 ~ Complete ~54:DICARBOXYLIC ACID ESTERS FOR INDUCING AN ANALGESIC EFFECT ~71:New Frontier Labs, LLC, 900 NE Loop 410, Suite D-119, SAN ANTONIO 78209-1403, TX, USA, United States of America ~72: IZBICKA, Elzbieta;STREEPER, Robert T.~ 33:US ~31:63/126,387 ~32:16/12/2020

2023/06272 ~ Provisional ~54:SYSTEM AND METHOD OF DETERMINING A PROBABILITY OF AN EMPLOYEE TO TERMINATE THEIR EMPLOYMENT ~71:SMOKE CONSOLIDATED INVESTMENT HOLDINGS LIMITED, 25 Bedford Square, Bedford Square, United Kingdom ~72: COOK, Andrew Geoffrey~

2023/06276 ~ Complete ~54:ADVANCED TREATMENT COMBINED FILTER SYSTEM FOR SEWAGE PLANT RECONSTRUCTION ~71:Nanjing Municipal Design and Research Institute Co., Ltd., 31 Tongren Street, Xuanwu District, Nanjing City, Jiangsu Province, People's Republic of China ~72: CHENG Changgen;HE Wei;KONG Yu;LIAN Peng;NIE Zeyu;SHEN Wei~

2023/06279 ~ Complete ~54:THERAPY OF POST-OPERATIVE EMESIS WITH AMISULPRIDE ~71:ACACIA PHARMA LIMITED, The Officers' Mess, Royston Road, United Kingdom ~72: FOX, Gabriel;GILBERT, Julian Clive;GRISTWOOD, Robert William~ 33:GB ~31:1618425.1 ~32:01/11/2016

2023/06286 ~ Complete ~54:ROCK DRILL SUPPORT ~71:DDT MECHANISED MINING SERVICES (PTY) LTD, 34 Panners Lane, Unit 2, Humewood Links, Riverclub, South Africa ~72: VAN NIEKERK, Dennis~

2023/06292 ~ Complete ~54:A MODULAR SYSTEM AND METHOD FOR ONSITE WASTEWATER TREATMENT AND RESOURCE RECOVERY ~71:COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Anusandhan Bhawan, 2 Rafi Marg, New Delhi, 110 001, India ~72: BHASKARAN, Krishnakumar~ 33:IN ~31:202011054437 ~32:14/12/2020

2023/06294 ~ Complete ~54:METHOD FOR SEQUENTIAL ONE-POT SYNTHESIS OF TKX-50 ~71:EURENCO, 26 Allée des Saules, Sorgues, 84700, France ~72: ARTHUR DELAGE;FRÉDÉRICK LACEMON;GENEVIÈVE ECK;JÖRG STIERSTORFER;MARC BÖLTER;THIBAUD ALAIME;THOMAS KLAPÖTKE~ 33:FR ~31:FR2013614 ~32:18/12/2020

2023/06300 ~ Complete ~54:SYSTEM AND METHOD OF DYNAMIC CORRECTIVE ENZYME SELECTION AND FORMULATION FOR PULP AND PAPER PRODUCTION ~71:BUCKMAN LABORATORIES INTERNATIONAL, INC., 1256 North McLean Boulevard, United States of America ~72: CARTER, John;LI, Feiran;REED, Mark~ 33:US ~31:63/125,250 ~32:14/12/2020

2023/06310 ~ Complete ~54:A DUMP BOX ARRANGEMENT FOR A VEHICLE, A DUMP BOX, AND A MINING VEHICLE ~71:Sandvik Mining and Construction Oy, Pihtisulunkatu 9, TAMPERE 33330, FINLAND, Finland ~72: SUNDBERG, Pia;TAMMINEN, Pekka;VUOKILA, Marko~

2023/06274 ~ Complete ~54:SAMPLE PRETREATMENT REAGENT IN THE PROCESS OF DETERMINING ARSENIC IN URINE AND METHOD FOR DETERMINING ARSENIC IN URINE ~71:GUIZHOU CENTER FOR DISEASE CONTROL AND PREVENTION, No.73, Bageyan Road, Yunyan District, Guiyang City, Guizhou Province, 550000, People's Republic of China ~72: BAI, Lishan;BAO, Xia;CHEN, Xudong;GUO, Hua;HUANG, Yiyanwen;LIAO, Chun;PAN, Yuehua;XIANYU, Fangming~

2023/06278 ~ Complete ~54:ELECTRIC WATER HEATING APPARATUS ~71:MAGNETO THERMALS (PROPRIETARY) LIMITED, Office 3, Rydallviews, 5A Rydall Vale Office Park, 38 Douglas Saunders Drive, La Lucia Ridge, Umhlanga, South Africa ~72: DIEDERIKS, Franco~ 33:ZA ~31:2021/10507 ~32:17/06/2022

2023/06289 ~ Complete ~54:WHEEL LIFTING AID ~71:OLIVER, Fred, Abraham, 32 TIBURON PLACE, NEW DAWN PARK, DURBAN, 4037, SOUTH AFRICA, South Africa ~72: OLIVER, Fred, Abraham~

2023/06299 ~ Complete ~54:STIRRING IMPELLER, ARRANGEMENT AND USE ~71:METSO OUTOTEC FINLAND OY, Lokomonkatu 3, Finland ~72: IMMONEN, Pekka;LATVA-KOKKO, Marko;XIA, Jiliang~

2023/06298 ~ Complete ~54:DECODING AND ENCODING BASED ON ADAPTIVE INTRA REFRESH MECHANISM ~71:HANGZHOU HIKVISION DIGITAL TECHNOLOGY CO., LTD., No.555, Qianmo Road, Binjiang District, Hangzhou, 310051, People's Republic of China ~72: FANGDONG CHEN;LI WANG;LIANG WEI~ 33:CN ~31:202110298610.4 ~32:19/03/2021

2023/06302 ~ Complete ~54:ANTI-CANCER COMPOSITION ~71:ACUPHARM INTERNATIONAL PROPRIETARY LIMITED, Plot 762, Botswana Road, Botswana;BARAVALLE, Ursula, Antonella, Davey, 5 Inanda Greens Business Park, 54 Wierda Road West, South Africa ~72: LaPORTA, James Clive Hurwitz;MARAIS, Johannes Francois;VAN JAARSVELD, Jacobus Johannes~ 33:NL ~31:2027153 ~32:18/12/2021

2023/06304 ~ Complete ~54:REAL TIME PCR METHOD TO DETECT BOVINE PARVOVIRUS 3 ~71:Amgen Inc., One Amgen Center Drive, THOUSAND OAKS 91320-1799, CA, USA, United States of America ~72: AMINI BAVIL OLYAEE, Samad~ 33:US ~31:63/126,939 ~32:17/12/2020;33:US ~31:63/211,607 ~32:17/06/2021

2023/06309 ~ Complete ~54:METHODS OF TREATING ACHONDROPLASIA ~71:QED Therapeutics, Inc., 75 Federal Street, SAN FRANCISCO 94107, CA, USA, United States of America ~72: ARANGIO,

Susan;DAMBKOWSKI, Carl;HENDERSON, Michael;MONTEITH, Michael;PANICUCCI, Riccardo;ROGOFF, Daniela;ZHANG, Lihua~ 33:US ~31:63/127,576 ~32:18/12/2020

2023/06281 ~ Complete ~54:WATER-SOIL CONSERVATION TILLAGE METHOD FOR PREVENTING AND CONTROLLING SOIL EROSION OF GENTLE SLOPE FARMLAND ~71:XINJIANG INSTITUTE OF ECOLOGY AND GEOGRAPHY, CHINESE ACADEMY OF SCIENCES, NO. 818, BEIJING SOUTH ROAD, People's Republic of China ~72: CHEN, Yaning;CHEN, Yapeng;PAN, Tingting;ZHU, Chenggang~

2023/06282 ~ Complete ~54:INNER TUBE ASSEMBLY OF DRILL TOOL AND ROPE CORING DRILL TOOL THEREOF ~71:Guangdong Eagler Geological Equipment Technology Co., Ltd, Building A, Jinding Shenghui Street No.12, High-tech Zone, Zhuhai,, People's Republic of China ~72: Chen, Beihua;Deng, Guanghong;Liu, Xuyong~ 33:CN ~31:202211733135.X ~32:30/12/2022

2023/06283 ~ Complete ~54:UNIVERSITY BOOK MANAGEMENT SYSTEM BASED ON DISTRIBUTED WEB CRAWLER ~71:Xinyu University, 2666 Sunshine Avenue, High-tech Zone, Xinyu City, Jiangxi Province, 338004, People's Republic of China ~72: Liu Xiaohu~

2023/06284 ~ Complete ~54:INTELLIGENT LOGISTICS INFORMATION QUERY EQUIPMENT ~71:Xinyu University, 2666 Sunshine Avenue, Hi-Tech Zone, Xinyu City, Jiangxi Province, 38004, People's Republic of China ~72: Feng Daoming;Huang Yulong;Liu Kai;Pan Cheng~ 33:CN ~31:2022111653595 ~32:23/09/2022

2023/06288 ~ Complete ~54:COMPOSITIONS AND METHODS FOR GENETICALLY MODIFYING CIITA IN A CELL ~71:INTELLIA THERAPEUTICS, INC., 40 Erie Street, Cambridge, United States of America ~72: GOEL, Surbhi;HARRINGTON, William Frederick~ 33:US ~31:63/130,098 ~32:23/12/2020;33:US ~31:63/251,002 ~32:30/09/2021;33:US ~31:63/254,971 ~32:12/10/2021;33:US ~31:63/288,502 ~32:10/12/2021

2023/06290 ~ Complete ~54:LONG ACTING GLUCAGON LIKE POLYPEPTIDE-1 (GLP-1) RECEPTOR AGONISTS AND METHODS OF USE ~71:I2O THERAPEUTICS, INC., 700 Main Street, United States of America ~72: BLACKWELL, William;PAULIK, Mark;SRIVASTAVA, Ved P.~ 33:US ~31:63/126,736 ~32:17/12/2020

2023/06297 ~ Complete ~54:PROGRAMMABLE TRANSPOSASES AND USES THEREOF ~71:UNIVERSITAT POMPEU FABRA, Plaça de la Mercè, 10-12 08002 Barcelona, Spain ~72: AMAL RAHMEH;AVENCIA SANCHEZ-MEJIAS GARCIA;DIMITRIE IVANCIC DJERMANOVIC;MARC GUELL CARGOL;MARIA PALLARES MASMITJA~ 33:EP ~31:20214696.5 ~32:16/12/2020;33:EP ~31:21209719.0 ~32:22/11/2021

2023/06307 ~ Complete ~54:RNA CONSTRUCT ~71:Imperial College Innovations Limited, Level 1 Faculty Building, c/o Imperial College, Exhibition Road, LONDON SW7 2AZ, GREATER LONDON, UNITED KINGDOM, United Kingdom;VaxEquity Ltd, The Mansion, Chesterford Research Park, LITTLE CHESTERFORD CB10 1XL, ESSEX, UNITED KINGDOM, United Kingdom ~72: HARPER, Elaine;MCKAY, Paul;SHATTOCK, Robin;WATSON (Deceased), Michael~ 33:GB ~31:2020063.0 ~32:17/12/2020

. - APPLIED ON 2023/06/19 -

2023/06315 ~ Complete ~54:MONGOLIAN FLAVORED YOGURT AND PREPARATION METHOD THEREFOR ~71:Inner Mongolia Agricultural University, No. 306, Zhaowuda Road, Saihan District, Hohhot City, Inner Mongolia, 010000, People's Republic of China ~72: CHEN, Aorigele;CHEN, Hao;HUASAI, Simujide;SAHIRAD, Anger;WANG, Chunjie~ 33:CN ~31:2023103916860 ~32:12/04/2023

2023/06331 ~ Complete ~54:SAND COLLECTING DEVICE FOR MONITORING SOIL WIND EROSION AND DESERTIFICATION ~71:XINJIANG INSTITUTE OF ECOLOGY AND GEOGRAPHY, CHINESE ACADEMY OF

SCIENCES, No. 818 Beijing South Road, Xinshi District, Urumqi, Xinjiang, 841100, People's Republic of China ~72: Fan Jinglong;Li Fangguo;Li Shengyu;Wang Haifeng;Yu Xiangxiang~ 33:CN ~31:2023105123242 ~32:09/05/2023

2023/06337 ~ Complete ~54:LOCKING STRUCTURE FOR ROTATING SHAFT OF PHOTOGRAPHY AND VIDEOGRAPHY GIMBAL ~71:JINING NORMAL UNIVERSITY, No. 59 Gongnong Street, Ulanqab City, Inner Mongolia Autonomous Region, 012000, People's Republic of China ~72: LIU, Tong~

2023/06340 ~ Complete ~54:DEVICE AND METHOD FOR AUTOMATIC FORCED DISCHARGE OF CONDENSATE WATER BASED ON SELF-DIAGNOSIS TECHNIQUE ~71:HEBEI BAISHA TOBACCO CO., LTD. BAODING, 769 Yulan Dajie, Baoding, Hebei, 071000, People's Republic of China ~72: CHAI, Hongli;JIN, Lijie;LI, Hong;LIU, Xia;WANG, Zhaohui;XU, Xu;ZHANG, Jiangtao~ 33:CN ~31:202110390811.7 ~32:12/04/2021

2023/06342 ~ Complete ~54:ASSISTED BREATHING APPARATUS AND METHOD ~71:IQUANTUM PATENT FACTORY SA DE CV, Tabasco 224, Roma Norte, Cuauhtémoc, Mexico City, 06700, Mexico ~72: Julio Alberto Rosano Garcia~ 33:MX ~31:Mx/a/2020/008822 ~32:19/08/2020

2023/06352 ~ Complete ~54:METHOD FOR WINDING PREFORMS ~71:RUGGLI PROJECTS AG, Frauentalstrasse 3, 6332, Hagendorn, Switzerland ~72: MARCO AUER;SAMUEL SCHULER~ 33:CH ~31:00426/21 ~32:21/04/2021

2023/06367 ~ Complete ~54:SHOOTING RANGE ~71:LEONTEV, Sergei Nikolaevich, pr-t Budennovskiy, 120/1, kv. 16., ROSTOV-NA-DONU 344011, RUSSIA, Russian Federation ~72: LEONTEV, Sergei Nikolaevich~ 33:RU ~31:2021103961 ~32:17/02/2021

2023/06356 ~ Complete ~54:HIGH PURITY HYDROXYCARBOXYLIC ACID COMPOSITIONS AND METHODS OF MAKING SAME ~71:SOLUGEN, INC., 14549 Minetta Street, Houston, Texas, 77035-6523, United States of America ~72: KEVIN LOFTIS;PARTH PATEL;PETER NGUYEN;SEAN HUNT~ 33:US ~31:63/125,306 ~32:14/12/2020

2023/06364 ~ Complete ~54:PROCESS FOR PREPARING 1-AMINO-1-CYCLOPROPANECARBOXYLIC ACID GRANULES ~71:Valent BioSciences LLC, 1910 Innovation Way, Suite 100, LIBERTYVILLE 60048, IL, USA, United States of America ~72: LOPEZ, John;SASAKAWA, Mitsuhiro;SHARMA, Parvesh;ZHEN, Yueqian~ 33:US ~31:63/144,341 ~32:01/02/2021

2023/06311 ~ Provisional ~54:TUBULAR ROCK ANCHOR ~71:Theodore Daniel Swemmer, PO Box 75746, South Africa ~72: Theodore Daniel Swemmer~

2023/06314 ~ Provisional ~54:TOUGHENING OF CURED ORGANIC BINDERS ~71:VERSTER, Dale Joseph, 27 Copley Avenue, Elton Hill, Johannesburg 2196, Gauteng, SOUTH AFRICA, South Africa ~72: VERSTER, Dale Joseph~

2023/06327 ~ Complete ~54:A GAS TIGHTNESS TESTING DEVICE FOR MOTOR FLANGE END COVERS ~71:Anhui Institute of Information Technology, No. 1 Yonghe Road, Wanzhi District, Wuhu, People's Republic of China ~72: Cao Zijun;Li Jinxiang;Shi Zhan;Wang Yunfei~ 33:CN ~31:202210552851 .1 ~32:19/05/2022

2023/06333 ~ Complete ~54:BRANCH OPTIMIZATION METHOD AND SYSTEM FOR BIG DATA ETL MODEL EXECUTION ~71:Nanjing Beidou Innovation and Application Technology Research Institute Co., Ltd., No. 8, Huyue East Road, Longchi Street, Liuhe District, Nanjing, Jiangsu, 211500, People's Republic of China ~72: Wei GUO;Yaxin FAN;Yuda GUO;Zhiqiang DU~

2023/06343 ~ Complete ~54:HUMANIZED COMPLEMENT 5A RECEPTOR 1 ANTIBODIES AND METHODS OF USE THEREOF ~71:VISTERRA, INC., 275 2nd Avenue, 4th Floor, Waltham, United States of America ~72: BABCOCK, Gregory;BOOTH, Brian;OLINSKI, Lauren;RAMAKRISHNAN, Boopathy;SHRIVER, Zachary;VISWANATHAN, Karthik;WOLLACOTT, Andrew~ 33:US ~31:63/137,089 ~32:13/01/2021;33:US ~31:63/274,748 ~32:02/11/2021

2023/06347 ~ Complete ~54:REDUCTION OF VIRAL INFECTIONS ~71:PHOXBIO LIMITED, 8 THE MALL, LOWER MAIN STREET, LUCAN, COUNTY DUBLIN, K78 A4N5, IRELAND, Ireland ~72: MASOOD, Mohammed, Abid;RUSSELL, Angela;SILPA, Laurence;UPPAL, Rakesh~ 33:GB ~31:2018571.6 ~32:25/11/2020;33:GB ~31:2020320.4 ~32:21/12/2020;33:GB ~31:2105509.0 ~32:18/04/2021;33:EP ~31:PCT/EP2021/068425 ~32:02/07/2021

2023/06319 ~ Complete ~54:METHOD FOR IMPROVING CULTIVATION EFFICIENCY OF CITRUS HYBRID SEEDLINGS IN GROWTH STAGE ~71:Citrus Research Institute of Zhejiang Province, No. 11 Daqiao Road, Huangyan District, Taizhou City, Zhejiang Province, People's Republic of China ~72: HUANG Xiu;KE Fuzhi;NIE Zhenpeng;SUN Lifang;WANG Luoyun;XU Jianguo~

2023/06335 ~ Complete ~54:RAINWATER COLLECTION DEVICE FOR MOUNTAIN BUILDING SLOPE ~71:CHINA RAILWAY HUATIE ENGINEERING DESIGN GROUP CO., LTD., CHINA RAILWAY HUATIE BUILDING, NO.36 NORTH FENGTAI ROAD, People's Republic of China ~72: LI, Mingze;WANG, Yin;ZHU, Jiangbo~

2023/06317 ~ Complete ~54:A PORTABLE KIT FOR FOOD TESTING ~71:Min Zhao, Building 2, Shuijing Huayuan Community, Huancheng West Road, Rencheng District, Ji’ning City, Shandong Province, 272000, People's Republic of China ~72: Min Zhao~

2023/06322 ~ Complete ~54:A FERTILIZATION DEVICE FOR AGRICULTURAL PLANTING AND A FERTILIZATION METHOD ~71:Shihezi University, Shibei Fourth Road, Shihezi City, Xinjiang Uygur Autonomous Region, 832003, People's Republic of China ~72: Liqiao Li;Zongyu Gao~

2023/06325 ~ Complete ~54:APPARATUS FOR SIMULATING SOLUTE EXCHANGE BETWEEN SOIL MACROPORE AND MATRIX DOMAINS ~71:Fuzhou University, No. 2, Wulongjiang North Avenue, Fuzhou University Town, Minhou County, Fuzhou, Fujian Province, 350108, People's Republic of China ~72: CAI, Songlin;CHEN, Xianyong;QIU, Yonghui;QUE, Yun~

2023/06351 ~ Complete ~54:ROLLER ASSEMBLY FOR GROUND-ENGAGING TRACK SYSTEM ~71:CATERPILLAR INC., 100 NE Adams Street, United States of America ~72: DONLAN, Zachary, T.;DUMITRU, Mircea;RECKER, Roger, L.~ 33:US ~31:17/128,504 ~32:21/12/2020

2023/06366 ~ Complete ~54:METHODS OF USING 4-AMINO-N-[4-(METHOXYMETHYL)PHENYL]-7-(1-METHYLCYCLOPROPYL)-6-(3-MORPHOLINOPROP-1-YN-1-YL)-7H-PYRROLO[2,3-D]PYRIMIDINE-5-CARBOXAMIDE FOR THE TREATMENT OF TUMORS ~71:Helsinn Healthcare SA, Via Pian Scairolo 9, LUGANO / PAZZALLO 6912, SWITZERLAND, Switzerland;Taiho Pharmaceutical Co., Ltd., 1-27 Kandanishiki-cho, Chiyoda-ku, TOKYO 101-8444, JAPAN, Japan ~72: BERNAREGGI, Alberto;BONIFACIO, Annalisa;DORIA, Simona;GIORGINO, Ruben;GIULIANO, Claudio;IGARASHI, Miharu;KATO, Masanori;LOVATI, Emanuela;MIYAZAKI, Isao~ 33:US ~31:63/116,282 ~32:20/11/2020;33:US ~31:63/229,626 ~32:05/08/2021

2023/06368 ~ Complete ~54:COMPOSITIONS OF PEPTIDE INHIBITORS OF INTERLEUKIN-23 RECEPTOR ~71:Janssen Pharmaceutica NV, Turnhoutseweg 30, Beerse, 2340, BELGIUM, Belgium;Protagonist Therapeutics, Inc., 7707 Gateway Boulevard, Suite 140, NEWARK 94560, CA, USA, United States of America ~72: BHANDARI, Ashok;BROECKX, Geraldine;CHENG, XiaoLi;DI PRETORO, Giustino;FOURIE, Anne

M.;KNIGHT, Beverly M.;LAI, Felix;LI, Shu;MASJEDIZADEH, Mohammad;MERTENS, Nathalie;MODI, Nishit;NEELAMKAVIL, Santhosh Francis;POLIDORI, David;RAJAN, Gopal;SUN, Dajun~ 33:US ~31:63/116,568 ~32:20/11/2020;33:US ~31:63/275,222 ~32:03/11/2021

2023/06318 ~ Complete ~54:METHOD FOR MEASURING MORPHOLOGY AND DENSITY OF PLANT ROOT HAIR ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, People's Republic of China ~72: HU Hui;LIU Biao;SANG Yupeng;WU Junfeng;YANG Yu;ZHANG Tingting;ZHANG Zhiyuan;ZHOU Changrui~

2023/06320 ~ Complete ~54:LIFTABLE MUSIC READING BOARD ~71:Lanzhou University of Technology, 287 Langongping, Qilihe District, Lanzhou, Gansu, 730050, People's Republic of China ~72: Hua CHENG~ 33:CN ~31:2023105629714 ~32:18/05/2023

2023/06339 ~ Complete ~54:A COMPOSITION AND A METHOD FOR ALLEVIATING SALINITY STRESS IN GROUNDNUT USING ENDOPHYTES AND RHIZOBIUM ~71:Anandham R, Department of Agriculture Microbiology, Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu, India;Gopal N O, Department of Agriculture Microbiology, Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu, India;Krishnamoorthy R, Department of Crop Management, Vanavarayar Institute of Agriculture, Pollachi, Tamil Nadu, India;Madhan S, Department of Agriculture Microbiology, Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu, India;Manikandan A, Institute of Ecology and Earth Sciences, University of Tartu, Tartu, Estonia;Meena S, Department of Soil science and Agricultural Chemistry, Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu, India;Oviya G, Department of Agriculture Microbiology, Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu, India;Raghu R, Centre for Plant Molecular Biology, Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu, India;Senthilkumar M, Department of Crop Management, Agriculture college and Research Institute, Tamil Nadu Agricultural University, Eachankottai, Tamil Nadu, India;Thiyageshwari S, Department of Soil science and Agricultural Chemistry, Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu, India;Vincent S, Department of Crop Physiology, Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu, India;Yazhini G, Department of Soil science and Agricultural Chemistry, Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu, India ~72: Anandham R;Gopal N O;Krishnamoorthy R;Madhan S;Manikandan A;Meena S;Oviya G;Raghu R;Senthilkumar M;Thiyageshwari S;Vincent S;Yazhini G~

2023/06346 ~ Complete ~54:COMPOSITIONS OF A BETA-HAIRPIN PEPTIDOMIMETIC AND AEROSOL DOSAGE FORMS THEREOF ~71:SPEXIS AG, HEGENHEIMERMATTWEG 125, 4123 ALLSCHWIL, SWITZERLAND, Germany ~72: BENGHEZAL, Mohammed;LE POUPON, Karen;OBRECHT, Daniel;UPERT, Grégory~ 33:EP ~31:20020554.0 ~32:23/11/2020;33:EP ~31:21020186.9 ~32:08/04/2021

2023/06361 ~ Complete ~54:INSECTICIDE COMPOSITION AND METHOD FOR INSECT CONTROL ~71: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: CARLOTO, Bruno Wolffenbuttel;CHIDI, Sergio Nobuo;TAME JUNIOR, Jorge Luiz~ 33:GB ~31:2018309.1 ~32:20/11/2020

2023/06362 ~ Complete ~54:SELECTIVE INHIBITORS OF ROCK1 AND ROCK2 PROTEIN KINASES AND USES THEREOF ~71:Genosco Inc., 43 Manning Rd, BILLERICA 01821, MA, USA, United States of America ~72: CHOI, Yunggeun;DEVINE, William G.;DIEBOLD, R. Bruce;HWANG, So Young;KIM, Sewon;KOH, Jong Sung;LEE, Jaekyoo;LEE, Wongil;LIU, Yan;SEUNG, Sang-ae;YONG, Miyong~ 33:US ~31:63/134,458 ~32:06/01/2021

2023/06363 ~ Complete ~54:SPLIT ANTIBODIES WHICH BIND TO CANCER CELLS AND TARGET RADIONUCLIDES TO SAID CELLS ~71:F. Hoffmann-La Roche AG, Grenzacherstrasse 124, BASEL 4070,

SWITZERLAND, Switzerland ~72: FROST, Sofia;HAAS, Alexander;IMHOF-JUNG, Sabine;KLEIN, Christian~ 33:EP ~31:21151245.4 ~32:12/01/2021

2023/06369 ~ Complete ~54:SYSTEM AND USER INTERFACE FOR PRODUCING A RECIPE FOR CURABLE COMPOSITIONS ~71:BETOLAR OY, Mannilantie 9, Finland ~72: KALLASVUO, Olli-Pekka;LEPPÄNEN, Juha~ 33:FI ~31:20206181 ~32:20/11/2020

2023/06373 ~ Provisional ~54:CELLPHONE ENHANCEMENT FEATURE/APP ~71:MICHAEL MALEBATSA THAPELO CHAUKE, 18697 KLAS SIBAMBY STREET, MAMELODI EAST, MAMELODI, GAUTENG, South Africa ~72: MICHAEL MALEBATSA THAPELO CHAUKE~

2023/06313 ~ Provisional ~54:ELECTRICAL GENERATION DEVICE ~71:BUYS, Johannes Christiaan, 54 Morrison Avenue, Rietondale, South Africa ~72: BUYS, Johannes Christiaan~

2023/06321 ~ Complete ~54:ANTI-LOOSENING REINFORCEMENT STRUCTURE OF PREFABRICATED EXTERNAL WALLBOARD ~71:CHINA RAILWAY CONSTRUCTION 20TH GROUP MUNICIPAL ENGINEERING Co .,LTD., Building 25, Rainbow City, Zhongchuan Park, Lanzhou New Area, Lanzhou City, Gansu Province, People's Republic of China ~72: DONG Penggang;OU Ying;REN Meng;TANG Wenbo;WANG Junrong;WANG Shengqian;YAN Kedou;YANG Renyi;ZHAO Gang~

2023/06324 ~ Complete ~54:METHOD AND DEVICE FOR STRENGTHENING LOAD TRANSFER OF CORNER JOINT OF OLD PAVEMENT SLAB SUITABLE FOR CEMENT PAVEMENT ADDITIONALLY PAVED WITH ASPHALT OVERLAY ~71:Fuzhou University, No. 2, Wulongjiang North Avenue, Fuzhou University Town, Minhou County, Fuzhou, Fujian Province, 350108, People's Republic of China ~72: CHEN, Hongyu;QUE, Yun;XU, Song;YUAN, Yan;ZHANG, Canlin~

2023/06326 ~ Complete ~54:AN INTELLIGENT MONITORING DEVICE FOR THE WARSHIP ON THE SEA ~71:Institute Of Geographic Sciences And Natural Resources Research, CAS, A11, Datun Road, Chaoyang District, Beijing, 100101, People's Republic of China ~72: Fengqin YAN~

2023/06328 ~ Complete ~54:A WIRING HARNESS CONNECTOR FOR AUTOMOBILES ~71:Anhui Institute of Information Technology, No. 1 Yonghe Road, Wanzhi District, Wuhu, People's Republic of China ~72: Cheng Xiang;Fang Yifan;Sang Aoran~ 33:CN ~31:202210553512 .5 ~32:20/05/2022

2023/06312 ~ Provisional ~54:SKIN CARE COMPOSITION ~71:NORDRE (PTY) LTD, Unit 3, Monte Carlo Place, 15 Monte Carlo Drive, Raceway Industrial Park, Gosforth Park, South Africa ~72: GRANT, Norman~

2023/06329 ~ Complete ~54:COMPREHENSIVE CONSTRUCTION METHOD FOR PRECAST SLAB FORMWORK SINKING IN LOCAL DEEP PIT AT BOTTOM OF FLOODPLAIN DEEP FOUNDATION PIT ~71:THE SECOND CONSTRUCTION ENGINEERING COMPANY LTD. OF CHINA CONSTRUCTION SECOND ENGINEERING BUREAU, No.0169 Qianhai Road, Nanshan Subdistrict, Nanshan District, Shenzhen, 518000, People's Republic of China ~72: CHANG, Yuehui;CHEN, Feixiang;HAN, Xuling;LI, Hongyang;LIU, Gang;LIU, Zisong;ZHANG, Aiming;ZONG, Luchao~ 33:CN ~31:202310559976.1 ~32:18/05/2023

2023/06355 ~ Complete ~54:SHIP COLLISION PREVENTION DEVICE FOR ABOVE-WATER STRUCTURE ~71:NINGBO UNIVERSITY, No. 818 Fenghua Road, Jiangbei District Ningbo, Zhejiang, 315211, People's Republic of China ~72: FENGHUA ZHOU;GUOYU CHEN;JUN LIU;LIMING YANG;YONGGANG WANG~ 33:CN ~31:202011572892.4 ~32:25/12/2020

2023/06358 ~ Complete ~54:RIBOSOMAL RNAS 2'O-METHYLATION AS A NOVEL SOURCE OF BIOMARKERS RELEVANT FOR DIAGNOSIS, PROGNOSIS AND THERAPY OF CANCERS ~71:CENTRE

LEON BERARD, 28, rue Laënnec, 69008 Lyon, France;CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (CNRS), 3, rue Michel Ange, 75016, Paris, France;INSERM (INSTITUT NATIONAL DE LA SANTÉ ET DE LA RECHERCHE MÉDICALE), 101, rue de, Tolbiac, 75013, Paris, France;UNIVERSITE CLAUDE BERNARD LYON I, 43, bvd du 11 Novembre 1918, 69100, Villeurbanne, France ~72: FRÉDÉRIC CATEZ;JANICE KIELBASSA;JEAN-JACQUES DIAZ;VIRGINIE MARCEL-TERRIER~ 33:EP ~31:20306461.3 ~32:27/11/2020

2023/06360 ~ 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 ~32:19/01/2021;33:US ~31:63/190,461 ~32:19/05/2021

2023/06370 ~ Complete ~54:RECTAL ANAESTHESIA DELIVERY DEVICE AND METHOD ~71:NEW MEDTEK DEVICES PTY LTD, C/- Altus Financial, Level 12, 10 Spring Street, Australia ~72: LUBOWSKI, David Zachary;VAN DER PLAS, Joseph Ignatius Maria~ 33:AU ~31:2020904358 ~32:25/11/2020

2023/06372 ~ Complete ~54:CONTAINER AND LATCHING SYSTEM ~71:YETI Coolers, LLC, 7601 Southwest Parkway, TX 78735, United States of America ~72: BLANCHARD, Walter T.;BONDHUS, Andy;BULLOCK, Dustin;CIESZKO, Michael Christopher;ELLISON, Kyle;HOTCHKISS, Tobias;LOMBARDI, Nicholas James;MORRIS, Liza;NICHOLS, Steve Charles;NIXON, Ryan;RANE, Mark Carlson;SEIDERS, Roy Joseph;SULLIVAN, Derek G.;ZUCK, Dennis~ 33:US ~31:17/123,746 ~32:16/12/2020

2023/06348 ~ Complete ~54:NOVEL SPIROPYRROLIDINE DERIVED ANTIVIRAL AGENTS ~71:ENANTA PHARMACEUTICALS, INC., 500 ARSENAL STREET, WATERTOWN, MASSACHUSETTS 02472, USA, United States of America ~72: BARTLETT, Samuel;CAO, Hui;GAO, Xuri;HE, Yong;KENTON, Nathaniel, Thomas;LI, Wei;LONG, Jiang;MA, Jun;OR, Yat, Sun;PANARESE, Joseph, D.;PENG, Xiaowen;SHEN, Ruichao;WANG, Guoqiang;XING, Xuechao;ZHANG, Jiajun~ 33:US ~31:63/117,170 ~32:23/11/2020;33:US ~31:63/142,663 ~32:28/01/2021;33:US ~31:17/479,244 ~32:20/09/2021;33:US ~31:17/479,530 ~32:20/09/2021

2023/06350 ~ Complete ~54:METHOD FOR SCREENING PEANUT VARIETY WITH HIGH NITROGEN ABSORPTION EFFICIENCY AND CULTURE OBSERVATION APPARATUS THEREFOR ~71:INSTITUTE OF INDUSTRIAL CROPS, HENAN ACADEMY OF AGRICULTURAL SCIENCES, NO. 116, HUAYUAN ROAD, People's Republic of China ~72: HAO, Xi;LIU, Mengya;ZANG, Xiuwang;ZHANG, Jun;ZHANG, Man;ZHANG, Penglei;ZHANG, Yang~ 33:CN ~31:202210702156.9 ~32:20/06/2022

2023/06357 ~ Complete ~54:VEHICLE RECOVERY EQUIPMENT STORAGE ARRANGEMENT ~71:JERICHO OFFROAD PTY LTD, GPO Box 1518, Brisbane GPO, 4001 Queensland, Australia ~72: HUGH DOUGLAS GORDON~ 33:AU ~31:2020904825 ~32:23/12/2020

2023/06359 ~ Complete ~54:IDENTITY-BASED RSA MULTIPLE BLIND-SIGNING METHOD AND DEVICE ~71:INSPUR SOFTWARE TECHNOLOGY CO., LTD., No. 1036 Langchao Road, Pilot Free Trade Zone, People's Republic of China ~72: LI, Zhaochuan;LIN, Jie;LIN, Yiwei;WANG, Guanjun;ZHANG, Feng;ZHU, Jiabing~ 33:CN ~31:202310443386.2 ~32:24/04/2023

2023/06334 ~ Complete ~54:METHOD FOR BALANCED ALLOCATION OF SCIENTIFIC RESEARCH RESOURCES ~71:SHANDONG FIRST MEDICAL UNIVERSITY & SHANDONG ACADEMY OF MEDICAL SCIENCES, NO. 6699, QINGDAO ROAD, People's Republic of China;SHANDONG INSTITUTE OF MEDICINE AND HEALTH INFORMATION, NO. 6699, QINGDAO ROAD, People's Republic of China ~72: DOU, Weijie;FAN, Jun;XI, Min;YANG, Xiuyun;YUE, Yuan;ZHANG, Rui;ZHAO, Wu~

2023/06344 ~ Complete ~54:REMOVAL OF ODORANTS FROM POST-CONSUMER POLYOLEFIN WASTE ~71:BOREALIS AG, Trabrennstrasse 6-8, Vienna, Austria ~72: DENIFL, Peter;PAN, Cheng;PIETTRE, Kilian~ 33:EP ~31:20209850.5 ~32:25/11/2020

2023/06349 ~ Complete ~54:ROSELLE DEGRADABLE FRESH-KEEPING COMPOSITE FILM, PREPARATION PROCESS AND ITS APPLICATION ~71:Hainan Tropical Ocean University, Yucai Rd 1#, Jiyang District, Sanya, Hainan, People's Republic of China ~72: Hu Lingping;Hu Yaqin;Hu Zhiheng;Huang Jiayin;Li Gaoshang;Liu Jialin~ 33:CN ~31:202210020559.5 ~32:10/01/2022

2023/06341 ~ Complete ~54:BIOLOGICAL PRESERVATION SOLUTION FOR STINKY MANDARIN FISH AND METHOD FOR PRODUCING LOW-SALT STINKY MANDARIN FISH ~71:HUANGSHAN UNIVERSITY, No. 39, Xihai Road, Tunxi, Huangshan, Anhui, 245041, People's Republic of China ~72: CHEN, Xiangyang;DONG, Xinyu;HU, Changyu;LIU, Gang;SHE, Xinsong;SUN, Hanju;WU, Yongxiang;YANG, Liu;ZHOU, Xun;ZHU, Rujin~ 33:CN ~31:202111140005.0 ~32:28/09/2021

2023/06345 ~ Complete ~54:PHOTODYNAMIC THERAPY AND DIAGNOSIS ~71:RMW CHO GROUP LIMITED, ROOM 707, 7/F, VANTA INDUSTRIAL CENTRE, 21 - 33 TAI LIN PAI ROAD, KWAI CHUNG, NT, HONG KONG, People's Republic of China ~72: CHO, Honsue;DONNER, Christopher, D.;FABER, Jonathan;MARCUCCIO, Sebastian, M.;SKENE, Colin;STEPHENS, Andrew, N.;STOCKTON, Kieran, P.~ 33:GB ~31:2018667.2 ~32:26/11/2020

2023/06365 ~ Complete ~54:TREATMENT OF C3 GLOMERULOPATHY USING A C5A INHIBITOR ~71:ChemoCentryx, Inc., One Amgen Center Drive, THOUSAND OAKS 91320, CA, USA, United States of America ~72: BEKKER, Petrus J.;STAEHR, Peter~ 33:US ~31:63/128,397 ~32:21/12/2020

2023/06371 ~ Complete ~54:A HIGH-EFFICIENCY AUTOMATIC MOTOR COIL WINDING DEVICE ~71:ZONQ MOTOR CO., LTD., No. 460, Yuanheng Road, Lu'an Economic and Technological Development Zone, Lu'an, People's Republic of China ~72: CHEN, Husheng;LIN, Bo;SONG, Zexin;YE, Lingrong;ZHANG, Jiachun~ 33:CN ~31:202222188289.7 ~32:19/08/2022

2023/06354 ~ Complete ~54:PROTECTION DEVICE FOR INTERCEPTING LARGE MOVING OBJECT ON WATER SURFACE ~71:NINGBO UNIVERSITY, No. 818 Fenghua Road, Jiangbei District Ningbo, Zhejiang, 315211, People's Republic of China ~72: GUOXIN DUAN;JUN LIU;LIMING YANG;WEI CHEN;XIHONG DAI;XINLONG DONG;YONGGANG WANG~ 33:CN ~31:202011572893.9 ~32:25/12/2020

2023/06353 ~ Complete ~54:DEVICES, SYSTEMS, AND METHODS FOR PUBLIC/PRIVATE KEY AUTHENTICATION ~71:ARCULUS HOLDINGS, LLC, 500 Memorial Drive Somerset, New Jersey, 08873, United States of America ~72: ADAM LOWE~ 33:US ~31:63/135,157 ~32:08/01/2021;33:US ~31:63/271,545 ~32:25/10/2021

2023/06336 ~ Complete ~54:FOOD PROCESSOR ~71:Season Agricultural Technology Co., Ltd., No. 161-1, Erjia, Guiren District, TAINAN CITY 711011 , TAIWAN (R.O.C.), Taiwan, Province of China ~72: YANG, Ching-Chieh~

2023/06316 ~ Complete ~54:A REFINING AGENT MIXING TANK FOR TEXTILES ~71:Zibo Luray Fine Chemicals Co.,Ltd, No.5008, Baoshan road, National hi-tech development zone, Zibo City, People's Republic of China ~72: Cui Jinde;Liang Lili;Wang Aide;Zhang Linhan~ 33:CN ~31:202310253241.6 ~32:16/03/2023

2023/06323 ~ Complete ~54:SYSTEM AND METHOD FOR COLLECTING AND ANALYSING ELECTROENCEPHALOGRAM (EEG) SPECTRALS FOR OM MANTRA MEDITATION AND APPLICATION THEREOF ~71:Archana Bajirao Kanwade, D 1001 Shubhkalyan, Nanded city, Pune, MAHARASHTRA, 411041,

India;Dr. D S Bhangari, Kalptaru colony, near oxygen park, Miraj, Dist:Sangli, Pune, MAHARASHTRA, 416410, India;Dr. Sharad Tukaram Jadhav, Sharad Institute of Technology College of Engineering, Yadrav, Ichalkaranji, Pune, MAHARASHTRA, 416146, India;Dr. Shridevi Sukhadeo Vasekar, Ganesh garden, B4 building, Flat no.4, B wing, near Mumbai-Bangalore highway, Vadgaon BK, Pune, MAHARASHTRA, 411041, India;Vinayak Bairagi, AISSMS Institute of Information Technology, Pune, MAHARASHTRA, 411001, India ~72: Archana Bajirao Kanwade;Dr. D S Bhangari;Dr. Sharad Tukaram Jadhav;Dr. Shridevi Sukhadeo Vasekar;Vinayak Bairagi~

2023/06330 ~ Complete ~54:A PIPELINE WALKING ROBOT ~71:Anhui Institute of Information Technology, No. 1 Yonghe Road, Wanzhi District, Wuhu, People's Republic of China ~72: Chen Yao;Shi Yunbo;Yang Junjie;Yang Yu;Zheng Hao~ 33:CN ~31:202210569749 .2 ~32:24/05/2022

2023/06332 ~ Complete ~54:TARGET RESIDUAL MOISTURE CONTENT FOR LYOPHILIZED DRUG PRODUCT ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: CHARI, Ravi;KLEPPE, Mary;TANG, Xiaolin;TZUL, Franco~ 33:US ~31:62/969,961 ~32:04/02/2020

2023/06338 ~ Complete ~54:AN ENERGY-SAVING VENTILATION DEVICE FOR A CONSTRUCTION SITE ~71:CHINA CONSTRUCTION FIFTH DIVISION SOUTHERN CONSTRUCTION SUBSIDIARY CORP., LTD, T1-8A, No.1 Shenzhen Bay, No.3088, Community Center Road, Blue Coast, Yuehai Street, Nanshan District, Shenzhen, Guangdong Province, 518000, People's Republic of China ~72: CHEN, Long;FAN, Lixiong;HE, Weijun;HUANG, Jiahao;KANG, Long;LI, Xiaoyu;LIU, Jiong;WANG, Qianhong;WANG, Zhenming;YAN, Wei;YANG, Jun;ZHANG, Yongyu;ZHOU, Jie~

. - APPLIED ON 2023/06/20 -

2023/06409 ~ Complete ~54:PERCOLATING CONTAINER ~71:WRIGHT, Brennan Kevin, 416 Coyote Creek Dr, Pearl Valley, Val de Vie, South Africa ~72: PRIOR, Vincent Warren~ 33:ZA ~31:2020/06920 ~32:13/11/2020;33:WO ~31:PCT/IB2021/060558 ~32:15/11/2021

2023/06381 ~ Complete ~54:PROCESSES FOR THE PREPARATION OF 4-{8-AMINO-3-[(2S)-1-(BUT-2-YNOYL)-PYRROLIDIN-2-YL]IMIDAZO[1,5-A]-PYRAZIN-1-YL}N-(PYRIDIN-2-YL)-BENZAMIDE ~71:Acerta Pharma B.V., Kloosterstraat 9, OSS 5349 AB, THE NETHERLANDS, Netherlands ~72: BETHEL, Paul Allen;CHAN, Lai Chun;COOPER, Katie Grace;COX, Robert John;EVARTS, Jerry;GARREY, Rustam Ferdinand;GOLDEN, Michael David;HUGHES, Shaun Alan;JACKSON, Lucinda Victoria;JUNYING, Qiu;LAWLER, Michael Joseph;LITJENS, Remy E. J. N.;MILLARD, Kirsty Jane;PHILLIPS, Andrew John;SHORT, David Allen;TELFORD, Alexander James;VAN EIJK, Peter Johannes Servaas Savio;VERSTAPPEN, Mathilda Maria Henrica;VOS, Frank L. M.;WANG, Angang;ZIJP, Eric Jurriën~ 33:US ~31:62/724,228 ~32:29/08/2018

2023/06383 ~ Complete ~54:EXPERIMENTAL DEVICE FOR SIMULATING FAULT-CROSSING TUNNEL ~71:Fuzhou University, No. 2, Wulongjiang North Avenue, Fuzhou University City, Fuzhou City, Fujian, 350108, People's Republic of China;Fuzhou Zuohai Holding Group Co., Ltd., 5th Floor, Traffic Hub Command Center, No. 552 Jinshan Avenue, Cangshan District, Fuzhou City, Fujian, 350008, People's Republic of China ~72: CHEN, Yongfeng;GU, Yin;WANG, Hao~

2023/06389 ~ Complete ~54:SWITCHING MEANS AND ON-LOAD TAP CHANGER WITH A SWITCHING MEANS ~71:MASCHINENFABRIK REINHAUSEN GMBH, Falkensteinstraße 8, 93059 Regensburg, Germany ~72: FLOTZINGER, Simon;HAMMER, Christian~ 33:DE ~31:10 2021 104 923.7 ~32:02/03/2021

2023/06399 ~ Complete ~54:LOW COMPLEXITY HISTORY USAGE FOR RICE PARAMETER DERIVATION FOR HIGH BIT-DEPTH VIDEO CODING ~71:QUALCOMM Incorporated, ATTN: International IP Administration, 5775 Morehouse Drive, SAN DIEGO 92121-1714, CA, USA, United States of America ~72: KARCZEWICZ,

Marta;RUSANOVSKYY, Dmytro~ 33:US ~31:63/128,641 ~32:21/12/2020;33:US ~31:17/645,187 ~32:20/12/2021

2023/06374 ~ Provisional ~54:A NEW ANTIBIOTIC AGAINST CLINICALLY IMPORTANT MICROORGANISMS ~71:AL-JABRI, Ali Abdullah Hasan, Al Khoud, Way 3105, Alseeb, Muscat, OMAN, Oman;HASSON, Sidgi Syed Anwer Abdo, 2 Botany Road, Walsall, West Midlands, WS5 4ND, 123, UNITED KINGDOM, United Kingdom ~72: AL-JABRI, Ali Abdullah Hasan;HASSON, Sidgi Syed Anwer Abdo~

2023/06375 ~ Complete ~54:TECHNIQUE FOR EFFICIENT CONSTRUCTION OF CHIMERIC GONADAL CHICKEN EMBRYOS BY EMBRYO TRANSFER ~71:Jiangsu Institute of Poultry Sciences, No.58 Cang Xie Road, Hanjiang District, Yangzhou City, Jiangsu Province, People's Republic of China ~72: Debiao ZHAO;FAN Yanfeng;JIA Xiaoxu;LIU Long;LU Junxian;Micheal CLINTON;TANG Xiujun;ZHANG Jingxin;ZHAO Minmeng~

2023/06377 ~ Complete ~54:CONTINUOUS PRESSURE RELIEF SYSTEM AND METHOD FOR THE INSIDE OF SURROUNDING ROCK OF CONTINUOUS LARGE DEFORMATION ROADWAYS ~71:China University of Mining and Technology,Beijing, Ding No. 11 Xueyuan Road, Haidian District, Beijing, 10083, People's Republic of China ~72: Dongdong CHEN;Shengrong XIE~ 33:CN ~31:2023101828367 ~32:01/03/2023

2023/06379 ~ Complete ~54:SYSTEM FOR DETECTING HEAVY METALS COMPOUND POLLUTED SOIL AND METHOD THEREOF ~71:Institute of Geochemistry, Chinese Academy of Sciences, 99 West Lincheng Road, Guanshanhu District, Guiyang, Guizhou Province, People's Republic of China ~72: ChenYi;ChengJianZhong;GaoWeiChang;HuWei;LiHuan;ZhangTongKun~ 33:CN ~31:2022115374613 ~32:01/12/2022

2023/06394 ~ Complete ~54:PLANT AND PROCESS FOR THE TREATMENT OF MEDICINAL WASTE ~71:NEWSTER SYSTEM S.R.L., Via Pascoli 26/28, 47853 Cerasolo Di Coriano (RN), Italy ~72: BENEDETTA COPERTARO;ENRICO CATAPANO;GIANLUCA MAGRINI;GIORGIO CASALBONI;LAURA TREVISSON;MARCO PERICOLI~ 33:IT ~31:102020000030158 ~32:09/12/2020

2023/06398 ~ Complete ~54:HAIR CONDITIONING COMPOSITION FOR IMPROVED DEPOSITION ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: AMELIE LAURA SIMON;CESAR ERNESTO MENDOZA FERNANDEZ;RICHARD JONATHAN BARFOOT~ 33:EP ~31:20216206.1 ~32:21/12/2020

2023/06378 ~ Complete ~54:LOCAL BUILT-IN SURROUNDING ROCK SELF-LOCKING TRAY AND ITS USE METHOD ~71:China University of Mining and Technology,Beijing, Ding No. 11 Xueyuan Road, Haidian District, Beijing, 10083, People's Republic of China ~72: Dongdong CHEN;Fulian HE~ 33:CN ~31:2023100333437 ~32:10/01/2023

2023/06387 ~ Complete ~54:ZWITTERIONIC LIPID NANOPARTICLE COMPOSITIONS, AND METHODS OF USE ~71:CORNELL UNIVERSITY, Center for Technology Licensing at Cornell University (CTL), 395 Pine Tree Road, Suite 310, United States of America ~72: BAILEY, Sean;HU, Xiaoran;JIANG, Shaoyi;LUOZHONG, Sijin;YUAN, Zhefan~ 33:US ~31:63/129,343 ~32:22/12/2020

2023/06391 ~ Complete ~54:PROCESS FOR THE PREPARATION OF A SUGAR PRODUCT AND A FERMENTATION PRODUCT ~71:VERSALIS S.P.A., Piazza Boldrini 1, 20097, San Donato Milanese (MI), Italy ~72: BERTUS NOORDAM;MAAIKE APPELDOORN~ 33:EP ~31:21167451.0 ~32:08/04/2021

2023/06397 ~ Complete ~54:LOCALIZED HEATING SYSTEM FOR LARGE WATER BODIES WITH A PARTIAL CONFINEMENT SYSTEM ~71:CRYSTAL LAGOONS TECHNOLOGIES, INC., 1395 Brickell Avenue, Suite 800, ,

Miami, Florida, 33131, United States of America ~72: FERNANDO BENJAMIN FISCHMANN;JOSE AMIGO ALVAREZ~ 33:US ~31:63/132,644 ~32:31/12/2020

2023/06401 ~ Complete ~54:CAPSULE AND SYSTEM FOR PREPARING A BEVERAGE ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: BEHRMANN, Veith;GERBAULET, Arnaud;RICHARD, Cedric~ 33:EP ~31:20210284.4 ~32:27/11/2020

2023/06385 ~ Complete ~54:CHIMERIC RECEPTOR THERAPY ~71:PRECIGEN, INC., 20358 Seneca Meadows Parkway, Germantown, United States of America ~72: BOLINGER, Cheryl;CHEN, ChangHung;KURELLA, Vinodhbabu;SABZEVARI, Helen;SHAH, Rutul;WESA, Amy~ 33:US ~31:63/136,074 ~32:11/01/2021;33:US ~31:63/136,611 ~32:12/01/2021;33:US ~31:63/263,001 ~32:25/10/2021;33:US ~31:63/263,508 ~32:03/11/2021

2023/06386 ~ Complete ~54:IN VITRO ASSEMBLY OF ANELLOVIRUS CAPSIDS ENCLOSING RNA ~71:FLAGSHIP PIONEERING INNOVATIONS V, INC., 55 Cambridge Parkway, 8th Floor, Suite 800E, United States of America ~72: DELAGRAVE, Simon;HAJJAR, Roger, Joseph;SWANSON, Kurt Adam~ 33:US ~31:63/130,360 ~32:23/12/2020;33:US ~31:63/147,064 ~32:08/02/2021

2023/06403 ~ Complete ~54:PROCESS FOR PRODUCING A NON-FLAT ARTICLE ~71:Plantics Holding B.V., Westervoortsedijk 73 BF, ARNHEM 6827 AV, THE NETHERLANDS, Netherlands ~72: BAKKER, Wridzer Jan Willem;ROUAUD, Mathieu Baptiste~ 33:EP ~31:20209317.5 ~32:23/11/2020

2023/06392 ~ Complete ~54:DENTAL PRODUCT FOR FORMING AN ENDODONTIC CEMENT ~71:PRODUITS DENTAIRES PIERRE ROLLAND, 17 avenue Gustave Eiffel Z.I. du Phare, 33700, Merignac, France ~72: MARINE LANDRODIE;VINCENT MAURAT~ 33:FR ~31:FR2012532 ~32:02/12/2020

2023/06396 ~ Complete ~54:MANFACTURING A COMPOSITE FERTILISER PELLET ~71:ANGLO AMERICAN WOODSMITH LIMITED, 17 Charterhouse Street, London, Greater London, EC1N 6RA, United Kingdom ~72: TIMOTHY DAVID LEWIS~ 33:GB ~31:2020552.2 ~32:23/12/2020

2023/06402 ~ Complete ~54:CAPSULE AND MANUFACTURING PROCESS FOR PRODUCING SAID CAPSULE ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: BEHRMANN, Veith;GERBAULET, Arnaud;RICHARD, Cedric~ 33:EP ~31:20210284.4 ~32:27/11/2020

2023/06390 ~ Complete ~54:HYDROFORMYLATION REACTION PROCESSES ~71:DOW TECHNOLOGY INVESTMENTS LLC, 2211 H.H. Dow Way, United States of America ~72: GILES, Jason F.;KAMAT, Pritish M.;MILLER, Glenn A.;PHILLIPS, George R.;TSANG, Chi-Wei;YUAN, Quan~ 33:US ~31:63/128,909 ~32:22/12/2020

2023/06400 ~ Complete ~54:CAPSULE AND SYSTEM FOR PREPARING A BEVERAGE ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: BEHRMANN, Veith;GAVILLET, Gilles;GERBAULET, Arnaud~ 33:EP ~31:20210284.4 ~32:27/11/2020

2023/06404 ~ Complete ~54:PRIMARY CARBIDE REFINEMENT IN HYPEREUTECTIC HIGH CHROMIUM CAST IRONS ~71:Weir Minerals Australia Ltd, 1 Marden Street, ARTARMON 2064, NEW SOUTH WALES, AUSTRALIA, Australia ~72: CHANG, Haiwei;JAIN, Abhishek;TANG, Xinhu;ZHANG, Mingxing~ 33:AU ~31:2021900053 ~32:12/01/2021

2023/06405 ~ Complete ~54:DEXMEDETOMIDINE TREATMENT REGIMENS ~71:BioXcel Therapeutics, Inc., 555 Long Wharf Drive, NEW HAVEN 06511, CT, USA, United States of America ~72: ADEDOYIN, Adedayo;RAJACHANDRAN, Lavanya;RISINGER, Robert;SABADOS, Jeffrey R.~ 33:US ~31:63/133,593 ~32:04/01/2021;33:US ~31:63/156,703 ~32:04/03/2021;33:US ~31:63/168,995 ~32:31/03/2021;33:US ~31:63/180,284 ~32:27/04/2021;33:US ~31:63/218,965 ~32:07/07/2021

2023/06408 ~ Complete ~54:VESSEL AND SYSTEM FOR REDUCING PACKAGING WASTE ~71:CIRCULR RESEARCH PTY LTD, 6/120 Cambridge Street, Collingwood, Victoria, 3066, Australia ~72: WELLS, Joel~ 33:AU ~31:2020904859 ~32:28/12/2020

2023/06376 ~ Complete ~54:TEA PICKING ASSEMBLY AND TEA PICKER ~71:CHONGQING ACADEMY OF AGRICULTURAL SCIENCES, Nongke Avenue, Baishi Yi Town, Jiulongpo District, Chongqing, People's Republic of China ~72: CHEN Zhengming;WANG Jie;WU Quan;WU Xiuhong;XU Ze;YANG Haibin;YUAN Linying;ZHANG Ying;ZHONG Yingfu~

2023/06380 ~ Complete ~54:RNA-GUIDED HUMAN GENOME ENGINEERING ~71:PRESIDENT AND FELLOWS OF HARVARD COLLEGE, 17 Quincy Street, Cambridge, Massachusetts, 02138, United States of America ~72: GEORGE M CHURCH;LUHAN YANG;PRASHANT MALI~ 33:US ~31:61/738,355 ~32:17/12/2012;33:US ~31:61/779,169 ~32:13/03/2013

2023/06384 ~ Complete ~54:A DIESEL EXHAUST FLUID TANK ASSEMBLY ~71:MAHINDRA & MAHINDRA LIMITED, Mahindra Research Valley, Mahindra World City, Plot No:41/1, Anjur P.O., Chengalpattu, Kanchipuram District, India ~72: LINGALA, Vivek;NEERUKONDA, Srikanth;PRASAD, Abhinav;RAIBAGKAR, Hemant;VENKATRAMAN, Yogaraja~ 33:IN ~31:202241035615 ~32:21/06/2022

2023/06388 ~ Complete ~54:EXTENSION HANDLE SYSTEM FOR HANDHELD POWER TOOLS ~71:YALACKI, Daniel L, P.O. Box 440649 Aurora, United States of America ~72: YALACKI, Daniel L~ 33:US ~31:63/127,209 ~32:18/12/2020

2023/06393 ~ Complete ~54:INTERFERING RNAS TARGETING SEVERE ACUTE RESPIRATORY SYNDROME-ASSOCIATED CORONAVIRUS AND USES THEREOF FOR TREATING COVID-19 ~71:MICROBIO (SHANGHAI) CO. LTD., No.1188, Guangxing Rd., Songjiang District, Shanghai, 201613, People's Republic of China;ONENESS BIOTECH CO. LTD., 11F., No.236, Sec.4 Xinyi Road, Da An District Taibei, Taiwan 106, People's Republic of China ~72: CHI-FAN YANG;CHIA-CHUN YANG;YI-CHUNG CHANG;YI-FEN CHEN;YUAN-LIN CHOU~ 33:CN ~31:PCT/CN2020/133565 ~32:03/12/2020;33:CN ~31:PCT/CN2021/121762 ~32:29/09/2021

2023/06395 ~ Complete ~54:METHODS OF IMPROVING PROTEIN TITER IN CELL CULTURE ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, New York, 10591, United States of America ~72: ABDELQADER ZAMAMIRI;HONGXIA WANG;JIKANG WU;REGINALD SMITH;SARAH NICOLETTI;VICTOR SHASHILOV~ 33:US ~31:63/139,494 ~32:20/01/2021

2023/06406 ~ Complete ~54:FEED BARRIER ~71:FOURNIER, Nicolas, 21 rue d'Auvigny, France ~72: FOURNIER, Nicolas~ 33:FR ~31:2012900 ~32:09/12/2020;33:FR ~31:2110211 ~32:28/09/2021

2023/06407 ~ Complete ~54:MULTI-LINK MEASUREMENT REPORTING ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83, Sweden ~72: AMBEDE, Abhishek;LOPEZ, Miguel;SEDIN, Jonas~ 33:US ~31:63/119,149 ~32:30/11/2020

. - APPLIED ON 2023/06/21 -

2023/06410 ~ Provisional ~54:SYSTEM AND METHOD FOR DYNAMIC NFC CODE MANAGEMENT AND MAPPING ~71:keaobaka masha, 28 Baholo Street, South Africa ~72: keaobaka masha~

2023/06419 ~ Complete ~54:A HOOKAH DEVICE ~71:SHAHEEN INNOVATIONS HOLDING LIMITED, Unit 2, Level 7, Al Sila Tower, Abu Dhabi Global Market Square, Al Maryah Island, Abu Dhabi, United Arab Emirates ~72: CLEMENT LAMOUREUX;IMAD LAHOUD;JEFF MACHOVEC;MOHAMMED ALSHAIBA SALEH GHANNAM ALMAZROUEI;SAJID BHATTI~ 33:US ~31:17/122,025 ~32:15/12/2020;33:US ~31:17/220,189 ~32:01/04/2021;33:GB ~31:2104872.3 ~32:06/04/2021

2023/06422 ~ Complete ~54:A METHOD FOR MANUFACTURING EDIBLE WRAPPERS FOR PROVIDING SUSTAINABLE FOOD PACKAGING SOLUTION ~71:Dr. Kamal Kishor Upadhyay, Assistant Professor, Department of ECE, Jss academy of Technical Education, Noida,G B Nagar, UP, 201301, India;Dr. Nikhlesh Kumar Mishra, Assistant Professor, Department of ENTC, SVERI College of Enginnering, Pandharpur, Solapur, Maharastra, 413304, India ~72: Dr. Kamal Kishor Upadhyay;Dr. Nikhlesh Kumar Mishra~

2023/06434 ~ Complete ~54:COLD COMPRESS DEVICE FOR ORTHOPEDIC TRAUMA ~71:XIANGYA HOSPITAL CENTRAL SOUTH UNIVERSITY, No. 87 , Xiangya Road , Kaifu District, Changsha, People's Republic of China ~72: LI, Mingqing~ 33:CN ~31:202211006460.6 ~32:22/08/2022

2023/06439 ~ Complete ~54:CDK INHIBITORS AND THEIR USE AS PHARMACEUTICALS ~71:PRELUDE THERAPEUTICS, INCORPORATED, 200 Powder Mill Road, Experimental Station, E400/3213, Wilmington, Delaware 19803, United States of America ~72: ANDREW PAUL COMBS;ANDREW W BUESKING;KATARINA ROHLFING;RYAN HOLMES;SARAH PAWLEY;XIAOWEI WU~ 33:US ~31:63/127,853 ~32:18/12/2020

2023/06416 ~ Complete ~54:PRODUCTION OF BIO-BASED LIQUEFIED PETROLEUM GAS ~71:LANZATECH, INC., 8045 Lamon Avenue, Suite 400, Skokie, Illinois, 60077, United States of America ~72: MICHELLE KOCAL;RALPH GILLESPIE~ 33:US ~31:62/798,264 ~32:29/01/2019;33:US ~31:62/860,369 ~32:12/06/2019;33:US ~31:62/887,125 ~32:15/08/2019

2023/06427 ~ 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;SEITZ, Thomas;ZIMMERMANN, Gunther~ 33:EP ~31:20209750.7 ~32:25/11/2020;33:EP ~31:21194334.5 ~32:01/09/2021

2023/06431 ~ Complete ~54:ADHESION OF BLOWING AGENT-CONTAINING PARTICLES BASED ON POLYIMIDES OR POLYACRYLATES ~71:EVONIK OPERATIONS GMBH, RELLINGHAUSER STRASSE 1-11, 45128 ESSEN, GERMANY, Germany ~72: GANGLAUF, Mona;HOPF, Florian;TRASSL, Christian~ 33:EP ~31:20211204.1 ~32:02/12/2020

2023/06441 ~ Complete ~54:SUCTION LINER AND CENTRIFUGAL PUMP COMPRISING THE SAME ~71:METSO OUTOTEC SWEDEN AB, Box 132, 231 22, Trelleborg, Sweden ~72: AKI TUOMISALO~ 33:SE ~31:2150088-9 ~32:27/01/2021

2023/06447 ~ Complete ~54:ADENOSINE DERIVATIVE AND PHARMACEUTICAL COMPOSITION COMPRISING THE SAME ~71:Brii Biosciences, Inc., We-Work One City Ctr., Unit 05-130, 110 Corcoran St., DURHAM 27701, NC, USA, United States of America ~72: XU, Lianhong~ 33:US ~31:63/141,450 ~32:25/01/2021

2023/06453 ~ Complete ~54:VERTICAL LIGHT-EMITTING DIODE ~71:SEOUL VIOSYS CO.,LTD., 65-16,Sandan-ro 163 beon-gil,Danwon-gu,Ansan-si, Gyeonggi-do,, Republic of Korea ~72: LEE, Joon Hee~ 33:KR ~31:10-2019-0064076 ~32:30/05/2019

2023/06455 ~ Complete ~54:BIOFOULING PROTECTION OF ELEVATED VOLUME/VELOCITY FLOWS ~71:BIOFOULING TECHNOLOGIES ,INC., 105 Vann Place, Aberdeen, North Carolina, 28315,, United States of America ~72: CALCUTT, Lindsey;KASTER, Jerry;MCMURRAY, Brian;RALSTON, Emily;SHARPE ,Cliff;STEPHENS ,Abraham;TERMINI, Mike~ 33:IB ~31:PCT/US2019/059546 ~32:01/11/2019;33:IB ~31:PCT/US2020/022782 ~32:13/03/2020;33:US ~31:63/020,826 ~32:06/05/2020

2023/06412 ~ Complete ~54:CONNECTOR STRUCTURE FOR AUTOMOTIVE SENSOR ~71:Chongqing Vocational Institute of Engineering, No.1111 South Section of North-South Avenue, Shengquan Street, Jiangjin District, Chongqing, 402260, People's Republic of China ~72: Li, Wang;Minghui, Ou~ 33:CN ~31:2023105028074 ~32:06/05/2023

2023/06424 ~ Complete ~54:ALLERGY TEST DEVICE ~71:ALLTEST GMBH, Lessingstraße 27, A-4020, Austria ~72: SCHNETZ, Guntram~ 33:AT ~31:A 50010/2021 ~32:15/01/2021

2023/06428 ~ 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;SEITZ, Thomas;ZIMMERMANN, Gunther~ 33:EP ~31:20209750.7 ~32:25/11/2020;33:EP ~31:21194286.7 ~32:01/09/2021

2023/06443 ~ Complete ~54:SYNBIOTIC TREATMENT REGIMENS ~71:Prolacta Bioscience, Inc., 1800 Highland Avenue, DUARTE 91010, CA, USA, United States of America ~72: BUTTON, Julie E.;ELSTER, Scott;MCKENZIE, Gregory~ 33:US ~31:63/136,469 ~32:12/01/2021;33:US ~31:63/165,549 ~32:24/03/2021

2023/06449 ~ Complete ~54:1-AMINO-1-CYCLOPROPANECARBOAYLIC ACID SOLID COMPOSITIONS ~71:Valent BioSciences LLC, 1910 Innovation Way, Suite 100, LIBERTYVILLE 60048, IL, USA, United States of America ~72: BELKIND, Benjamin A.;HUANG, Zhengyu;MCARTNEY, Steve;PETRACEK, Peter D.;SASAKAWA, Mitsuhiro;SHARMA, Parvesh;ZHEN, Yueqian~ 33:US ~31:63/144,343 ~32:01/02/2021

2023/06413 ~ Complete ~54:BEARING CAPACITY DETECTION DEVICE CAPABLE OF ALIGNING CENTROID OF CONCRETE PILE FOUNDATION ~71:XUZHOU COLLEGE OF INDUSTRIAL TECHNOLOGY, No. 1 Xiangwang South Road, Gulou District, Xuzhou City, Jiangsu Province, 221140, People's Republic of China ~72: CHENG Cheng;LI Kuo;LI Xingzhen;LIU Liwei;LIU Nianru~

2023/06421 ~ Complete ~54:COMBINATION EQUIPMENT FOR CONTAMINATED SOIL REMEDIATION ~71:China Railway Seventh Bureau Group Nanjing Engineering Co., Ltd., Room 916, Building 6, No.6 Sanhong Road, Yuhuatai District, Nanjing, Jiangsu Province, People's Republic of China ~72: Cui Wenshuang;Li Haifeng;Li Meng;Li Yongkang;Lu Yongping;Ma Zichao;Song Zhichao;Yao Jianrong;Zhang Jianhua;Zhang Lei~

2023/06432 ~ Complete ~54:SOIL DISINFECTION DEVICE AND SOIL DISINFECTION SYSTEM ~71:INTELLIGENT EQUIPMENT RESEARCH CENTER, BEIJING ACADEMY OF AGRICULTURE AND FORESTRY SCIENCES, Room A1107, Beijing Agricultural Science Building, 11 Middle Shuguang-Huayuan Road, Haidian District, Beijing, 100097, People's Republic of China ~72: DOU, Hanjie;FAN, Pengfei;GU, Chenchen;LI, Cuiling;LI, Si;LV, Chunling;WANG, Xiu;ZHAI, Changyuan;ZOU, Wei~ 33:CN ~31:202211471039.2 ~32:23/11/2022

2023/06442 ~ Complete ~54:WATER-SOLUBLE CANNABINOID FORMULATION AND PREPARATION METHOD THEREFOR ~71:HANYI BIOTECHNOLOGY (BEIJING) CO., LTD, Room 13, 26th Floor, 1 Building, Jingguang Centre, Hujialou, Chaoyang District, People's Republic of China ~72: FAN, Dekai;TAN, Xin;WANG, Shubin~ 33:CN ~31:202011596414.7 ~32:29/12/2020

2023/06448 ~ Complete ~54:RNA VACCINE AGAINST SARS-COV-2 VARIANTS ~71:CureVac SE, Friedrich-Miescher-Str. 15, TÜBINGEN 72076, GERMANY, Germany;GlaxoSmithKline Biologicals SA, Rue de l'Institut 89, RIXENSART B-1330, BELGIUM, Belgium ~72: GROßE, Hans Wolfgang;MORENO, Diego Chaves;RAUCH, Susanne;ROTH, Nicole;VAHRENHORST, Dominik~ 33:US ~31:63/129,395 ~32:22/12/2020;33:EP ~31:PCT/EP2021/052455 ~32:03/02/2021;33:EP ~31:PCT/EP2021/069626 ~32:14/07/2021;33:EP ~31:PCT/EP2021/069632 ~32:14/07/2021

2023/06414 ~ Complete ~54:METHOD FOR PROVIDING STABLECOIN SERVICES OVER THE BLOCKCHAIN NETWORK AND BLOCKCHAIN SYSTEM USING THE SAME ~71:WEMADE CO., LTD., 49, Daewangpangyo-ro 644beon-gil, Bundang-gu, Republic of Korea ~72: SONG, Moheon~ 33:KR ~31:10-2022-0124750 ~32:29/09/2022

2023/06423 ~ Complete ~54:A NEW TYPE OF LANDSLIDE MONITOR ~71:Henan University of Urban Construction, Longxiang Road, Xincheng District, Pingdingshan City, Henan Province, 467000, People's Republic of China ~72: Gao Caiyun;Gao Ning;Liu Zhan;Song Ziying;Zhao Miaoxing;Zheng Chongqi~

2023/06435 ~ Complete ~54:MANOMETRIC FLUID RELEASE INJECTION DEVICE FOR CEREBROSPINAL FLUID REPLACEMENT ~71:XIANGYA HOSPITAL CENTRAL SOUTH UNIVERSITY, No. 87 , Xiangya Road , Kaifu District, Changsha, People's Republic of China ~72: YOU, Jia~ 33:CN ~31:202210171579.2 ~32:24/02/2022

2023/06438 ~ Complete ~54:CLOSURE WITH TEAR-OFF SEAL ~71:GUALA CLOSURES S.P.A., Via Rana 12 Frazione Spinetta Marengo, 15122, Alessandria AL, Italy ~72: LUCA VIALE;MARCO GIOVANNINI~ 33:IT ~31:102020000031778 ~32:22/12/2020

2023/06446 ~ Complete ~54:ALK-5 INHIBITORS AND USES THEREOF ~71:Sumitomo Pharma Oncology, Inc., 84 Waterford Drive, MARLBOROUGH 01752 , MA, USA, United States of America ~72: BASIREDDY, Siva Reddy;FRANZ, Bettina;KUMAR, Naresh;PADAKANTI, Srinivas;SIDDIQUI-JAIN, Adam;WARNER, Steven L.~ 33:US ~31:63/123,894 ~32:10/12/2020;33:US ~31:63/166,621 ~32:26/03/2021

2023/06411 ~ Complete ~54:NOVEL PROTECTIVE BARRIER COMPOSITIONS, AND USES THEREOF ~71:QUORUM INNOVATIONS, LLC, 2088 Hawthorne Street, Sarasota, United States of America ~72: BERKES, Eva, A.;BOEHM, Frederick T.;MONSUL, Nicholas, T.~ 33:US ~31:62/940,598 ~32:26/11/2019;33:US ~31:63/016,336 ~32:28/04/2020

2023/06415 ~ Complete ~54:PRETREATMENT METHOD FOR DETECTING NIGERICIN IN CHICKEN ~71:Gansu Analysis and Research Center, No. 225, Dingxi South Road, Chengguan District, Lanzhou City, Gansu Province, 730000, People's Republic of China ~72: LIU, Yu;YANG, Jing;ZHANG, Rui~

2023/06417 ~ Complete ~54:FOLDABLE ELECTRONIC DEVICE COMPRISING PROTECTION MEMBER ~71:SAMSUNG ELECTRONICS CO., LTD., 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea ~72: JAEHWAN PARK;JUNGCHUL AN;SEUNGKI CHOI~ 33:KR ~31:10-2019-0019549 ~32:19/02/2019

2023/06420 ~ Complete ~54:CLINICAL DIAGNOSIS SYSTEM OF NEUROSYPHILIS BASED ON MACHINE LEARNING FOR NON-DIAGNOSTIC PURPOSES ~71:Dermatology Hospital, Southern Medical University (Guangdong Provincial Dermatology Hospital,Guangdong Provincial Center for STI & Skin Diseases Control and Prevention,China Leprosy Control and Prevention Research Center), No. 2, Lujing Road, Dengfeng Street, Yuexiu District, Guangzhou City, Guangdong Province, 510091, People's Republic of China ~72: Jiaxin Wu;Leiwen Fu;Lixia Huang;Luoyao Yang;Wenjia Weng;Wujian Ke;Xinying Leng~ 33:CN ~31:202310611112.X ~32:26/05/2023

2023/06433 ~ Complete ~54:APPARATUS AND METHOD FOR DETECTING MISFOLDED PROTEIN IN BIOLOGICAL SAMPLE ~71:SHUWEN BIOTECH CO., LTD, Building 3, No. 333, Changhong Zhongjie, Fuxi Street, Deqing County Huzhou, People's Republic of China ~72: LI, Xingmin~ 33:CN ~31:202011315496.3 ~32:21/11/2020;33:CN ~31:202111346532.7 ~32:15/11/2021

2023/06440 ~ Complete ~54:DETERGENT COMPOSITION ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: NARAYANAN SUBRAHMANIAM;PANCHANAN BHUNIA~ 33:EP ~31:21154571.0 ~32:01/02/2021

2023/06452 ~ Complete ~54:COMPOSITION OF ADDITIVES COMPRISING A COPOLYMER AND A RESIN ~71:TotalEnergies OneTech, La Défense 6, 2 Place Jean Millier, COURBEVOIE 92400, FRANCE, France ~72: FRITSCH, Thomas;TORT, Frederic~ 33:FR ~31:FR2013911 ~32:22/12/2020

2023/06425 ~ Complete ~54:COMPOSITIONS AND METHODS FOR REDUCING HLA-A IN A CELL ~71:INTELLIA THERAPEUTICS, INC., 40 Erie Street, Cambridge, United States of America ~72: GOEL, Surbhi;LESCARBEAU, Reynald, Michael;MURRAY, Bradley, Andrew;SRIDHAR, Srijani;ZHANG, Yong~ 33:US ~31:63/130,095 ~32:23/12/2020;33:US ~31:63/250,996 ~32:30/09/2021;33:US ~31:63/254,970 ~32:12/10/2021;33:US ~31:63/288,492 ~32:10/12/2021

2023/06430 ~ Complete ~54:MULTI-LINK MEASUREMENT REPORTING ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83 STOCKHOLM, SWEDEN, Sweden ~72: AMBEDE, Abhishek;LOPEZ, Miguel;SEDIN, Jonas~ 33:US ~31:63/119,149 ~32:30/11/2020

2023/06437 ~ Complete ~54:SALT AND CRYSTAL FORM OF NITROGEN-CONTAINING HETEROCYCLIC DERIVATIVE, PREPARATION METHOD THEREFOR AND APPLICATION 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: LINSONG GUO;QINGXIN LIU~ 33:CN ~31:202011354289.9 ~32:26/11/2020;33:CN ~31:202111389216.8 ~32:22/11/2021

2023/06445 ~ Complete ~54:PROCESS FOR PRODUCING METHANE ~71:BP p.l.c., 1 St. James's Square, LONDON SW1Y 4PD, UNITED KINGDOM, United Kingdom ~72: PATERSON, Alexander James~ 33:EP ~31:20216751.6 ~32:22/12/2020

2023/06450 ~ Complete ~54:NOVEL INSECT INHIBITORY PROTEINS ~71:Monsanto Technology LLC, 800 North Lindbergh Boulevard, ST LOUIS 63167, MO, USA, United States of America ~72: BOWEN, David J.;CHAY, Catherine A.;HOWE, Ariene R.;MILLIGAN, Jason S.;TAYLOR, Christina M.;VANGORDON, Monika R.;WEGENER, Kimberly M.;WEINER, Brian E.~ 33:US ~31:63/130,385 ~32:23/12/2020

2023/06454 ~ Complete ~54:BIOFOULING PROTECTION OF ELEVATED VOLUME/VELOCITY FLOWS ~71:BIOFOULING TECHNOLOGIES ,INC., 105 Vann Place, Aberdeen, North Carolina,28315, United States of America ~72: CALCUTT, Lindsey;KASTER, Jerry;MCMURRAY, Brian;RALSTON, Emily;SHARPE, Cliff;STEPHENS, Abraham;TERMINI, Mike~ 33:IB ~31:PCT/US2019/059546 ~32:01/11/2019;33:IB ~31:PCT/US2020/022782 ~32:13/03/2020;33:US ~31:63/020826 ~32:06/05/2020

2023/06418 ~ Complete ~54:A HOOKAH DEVICE ~71:SHAHEEN INNOVATIONS HOLDING LIMITED, Unit 2, Level 7, Al Sila Tower, Abu Dhabi Global Market Square, Al Maryah Island, Abu Dhabi, United Arab Emirates ~72: CLEMENT LAMOUREUX;IMAD LAHOUD;JEFF MACHOVEC;MOHAMMED ALSHAIBA SALEH GHANNAM ALMAZROUEI;SAJID BHATTI~ 33:US ~31:17/122,025 ~32:15/12/2020;33:US ~31:17/220,189 ~32:01/04/2021;33:GB ~31:2104872.3 ~32:06/04/2021

2023/06426 ~ Complete ~54:METHOD AND SYSTEM FOR WORKLOAD MANAGEMENT OF NFV-MANO FUNCTIONAL ENTITIES ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83 STOCKHOLM, SWEDEN, Sweden ~72: TOEROE, Maria~ 33:US ~31:63/118,805 ~32:27/11/2020

2023/06429 ~ Complete ~54:AROG ALDOLASE VARIANT AND METHOD FOR PRODUCING BRACHED CHAIN AMINO ACID BY USING SAME ~71:CJ CHEILJEDANG CORPORATION, 330, DONGHO-RO, JUNG-GU, SEOUL 04560, REP OF KOREA, Republic of Korea ~72: KIM, Ju Eun;KIM, Kyungrim;LEE, Hayun;LEE, Heeseok;LEE, Ji Hye~ 33:KR ~31:10-2021-0010911 ~32:26/01/2021

2023/06436 ~ Complete ~54:EFFICIENTLY SEALED HIGH-PRESSURE IV-TYPE CYLINDER SEALING STRUCTURE AND PREPARATION PROCESS THEREOF ~71:CHINA NATIONAL BUILDING MATERIAL GROUP CO., LTD., (Block B) Building 2, Guohai Plaza, No. 17 Fuxing Road, Haidian District, Beijing, 100036, People's Republic of China;SINOMA SCIENCE AND TECHNOLOGY (SUZHOU) CO., LTD, No. 68, Changyang Street, Suzhou Industrial Park, Suzhou, Jiangsu, 215021, People's Republic of China ~72: GUO, Yongzhi;HUANG, Min;JI, Zengxiang;KUANG, Huan;LI, Ming;YUAN, Zhuowei~ 33:CN ~31:202310348358.2 ~32:03/04/2023

2023/06444 ~ Complete ~54:BIDIRECTIONAL DC/DC CONVERTER, URBAN RAIL VEHICLE AND TRACTION SYSTEM THEREOF ~71:Zhuzhou CRRC Times Electric Co., Ltd., No. 169 Shidai Road, Shifeng District, ZHUZHOU 412001, HUNAN, CHINA (P.R.C.), People's Republic of China ~72: CHEN, Wenguang;CHEN, Yuqi;FU, Xiaolong;HE, Hongcheng;JIAO, Bi;LIN, Zhenjun;WAN, Weiwei;XIAO, Weihua;YAO, Wujun;ZENG, Xiaoqin;ZHAO, Qingliang~ 33:CN ~31:202011364325.X ~32:27/11/2020

2023/06451 ~ Complete ~54:CANNABINOID DERIVATIVE AS A PHARMACEUTICALLY ACTIVE COMPOUND AND METHOD OF PREPARATION THEREOF ~71:GW Research Limited, Sovereign House, Vision Park, Chivers Way, Histon, CAMBRIDGE CB24 9BZ, CAMBRIDGESHIRE, UNITED KINGDOM, United Kingdom ~72: HINCHLIFFE, Paul Stuart;MILLET, Antoine;SHARPE, Andrew;SILCOCK, Alan James;TSE, Karen Ka-Yen~ 33:GB ~31:2019784.4 ~32:15/12/2020

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2023/06472 ~ Complete ~54:PORTABLE LIQUID FILLING MACHINE ~71:K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY, Kariyamanickam Road, SAMAYAPURAM, Tiruchirappalli, Tamil Nadu, 621112, India ~72: RAM KUMAR RAJAGOPAL;SAKTHIVEL MURUGAN;SAKTHIVEL VELMANI;SANTHOSH KUMAR AYALRAJ;SREERAMAN THANGARAJ~

2023/06476 ~ Complete ~54:VIRTUAL REALITY BASED DRONE DRIVEN PAINTING AND INSPECTION SYSTEM ~71:K.RAMAKRISHNAN COLLEGE OF ENGINEERING, NH-45, SAMAYAPURAM, Tiruchirappalli, Tamil Nadu, 621112, India ~72: PRAKASH Balachandran;RAVEENDHRAN Mahendran;SABRESHWAR Subramanian~

2023/06463 ~ Complete ~54:MAGNETIC SOLID STRONG BASE CATALYST BASED ON POROUS CARBON SHELL LAYER, PREPARATION THEREFOR AND USE THEREOF ~71:XUZHOU VOCATIONAL COLLEGE OF INDUSTRIAL TECHNOLOGY, No. 1 Xiangwang Road, Gulou District, Xuzhou City, Jiangsu Province, 221006, People's Republic of China ~72: LI Tiantian~

2023/06465 ~ Complete ~54:PREPARATION METHOD FOR TIPIRACIL HYDROCHLORIDE ~71:XUZHOU COLLEGE OF INDUSTRIAL TECHNOLOGY, No. 1 Xiangwang Road, Gulou District, Xuzhou City, Jiangsu Province, 221006, People's Republic of China ~72: CHEN, Jing;DONG, Limin;HE, Yan;LIU, Lianxin;LIU, Xuan;LIU, Yu;SHI, Guangxia~

2023/06469 ~ Complete ~54:BANANA BUNCH TRANSPORTER ~71:K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY, Kariyamanickam Road, SAMAYAPURAM, Tiruchirappalli, Tamil Nadu, 621112, India ~72: AATHITHYAN Sivanandham;DEEPAK Dhanapal;DINESH Sundaresan;KARANPRASATH Saravanan;MOHAMED IBRAHIM Settu~

2023/06464 ~ Complete ~54:A BUILDING ENERGY-SAVING WALL ~71:CHINA CONSTRUCTION FIFTH DIVISION SOUTHERN CONSTRUCTION SUBSIDIARY CORP., LTD, T1-8A, No. 1 Shenzhen Bay, No.3088, Community Center Road, Blue Coast, Yuehai Street, Nanshan District, Shenzhen, Guangdong Province, 518000, People's Republic of China ~72: CHEN, Dexiong;CHEN, Long;CHEN, Yingqiang;FAN, Lixiong;HUANG, Liang;LIU, Wei;LIU, Yanghua;LU, Hao;WANG, Lei;WU, Jianan;Wang, Qianhong;ZHAO, Jiehong~

2023/06487 ~ Complete ~54:AMINOTHIAZOLE COMPOUNDS AS C-KIT INHIBITORS ~71:Theseus Pharmaceuticals, Inc., 245 Main Street, 2nd Floor, CAMBRIDGE 02142, MA, USA, United States of America ~72: DALGARNO, David C.;HUANG, Wei-sheng;SHAKESPEARE, William C.~ 33:US ~31:63/134,469 ~32:06/01/2021

2023/06457 ~ Provisional ~54:NU-THATCH ~71:R S Crick, 26 Bodley Rd , Laezonia AH , 0026 , Pretoria, South Africa ~72: R S Crick~

2023/06456 ~ Provisional ~54:A PHOTOREACTOR ~71:UNIVERSITY OF SOUTH AFRICA, PRELLERSTREET, MUCKLENEUK, PRETORIA 0002, South Africa ~72: KUVAREGA, Alex~

2023/06459 ~ Provisional ~54:METHOD FOR DIANOSING TUBERCULOSIS DISEASE ~71:STELLENBOSCH UNIVERSITY, Admin B, Victoria Street, Stellenbosch, South Africa ~72: CHEGOU, Novel Njweipi;WALZL, Gerhard~

2023/06462 ~ Complete ~54:REGULATORY NUCLEIC ACID SEQUENCES ~71:ASKLEPIOS BIOPHARMACEUTICAL, INC., 20 T.W. Alexander Drive, Suite 110, Research Triangle Park, North Carolina, 27709, United States of America ~72: ANTONIA EVRIPIOTI;ILEANA GUERRINI;JORGE OMAR YANEZ-CUNA;JUAN MANUEL IGLESIAS;KATIE BAKER;KIRA MOURAO;MICHAEL L ROBERTS;POLYXENI KATSOUPI;RINKU RAJAN;SINCLAIR COOPER~ 33:GB ~31:1919269.9 ~32:24/12/2019;33:GB ~31:2012192.7 ~32:05/08/2020

2023/06468 ~ Complete ~54:GRIPPING MEANS FOR THE HANDLING OF A WATER HEATER ~71:Ariston S.p.A., Viale Aristide Merloni, 45, FABRIANO 60044, (AN), ITALY, Italy ~72: ANTONELLI, Daniele;GARBETTI, Gian Marco;GIORGETTI, Alessio;SAMPAOLESI, Marco~ 33:IT ~31:102022000013366 ~32:23/06/2022

2023/06460 ~ Provisional ~54:SMART AIRXKIT ~71:Might Nxumalo, Plot 254 Meyerton road, South Africa ~72: Might Nxumalo~

2023/06466 ~ Complete ~54:A METHOD FOR INTELLIGENT ASSISTED INTERPRETATION OF THYROID CAPSULE INVASION ~71:FUJIAN MEDICAL UNIVERSITY UNION HOSPITAL, 2 Wulong Jiangbei Avenue, Fuzhou University Town, Minhou County, Fuzhou City, Fujian Province, 350108, People's Republic of China;FUZHOU UNIVERSITY, 2 Wulong Jiangbei Avenue, Fuzhou University Town, Minhou County, Fuzhou City, Fujian Province, 350108, People's Republic of China ~72: TONG, Tong~ 33:CN ~31:202310554269.3 ~32:17/05/2023

2023/06473 ~ Complete ~54:A CHEMICAL MIXING MACHINE FOR PREVENTING THE FIRE ACCIDENTS IN CRACKER INDUSTRY ~71:K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY, Kariyamanickam Road, SAMAYAPURAM, Tiruchirappalli, Tamil Nadu, 621112, India ~72: ARAVIND PRASAD Baskaran;BHARATH

Gnanavel;DEENA ROSE Devasahayam;Dr AVUDAIAPPAN Tharmiah;MURUGAVALLI Sanglimuthu;SANTHOSH KUMAR Marimuthu~

2023/06475 ~ Complete ~54:AN EXTERNAL DRIVE SYSTEM FOR TWO WHEELER VEHICLE ~71:K.RAMAKRISHNAN COLLEGE OF ENGINEERING, NH-45, SAMAYAPURAM, Tiruchirappalli, Tamil Nadu, 621112, India ~72: Dr TITUS Sigamani;GABRIEL SANTHOSH KUMAR Immanuel Gunaseelan;RAJAGOAPALAN Sankaranarayanan;SUSWIN GANESH Ramesh~

2023/06481 ~ Complete ~54:A VERSATILE METHOD TO VALORIZE CELLULOSIC WASTE TEXTILES ~71:SHARETEX AB, Norra Villavägen 17, 237 34, Bjärred, Sweden ~72: LARS STIGSSON (DECEASED);MIGUEL SANCHIS SEBASTIA~ 33:SE ~31:2150003-8 ~32:04/01/2021;33:SE ~31:2150166-3 ~32:15/02/2021;33:SE ~31:2150696-9 ~32:01/06/2021

2023/06486 ~ Complete ~54:COMPOSITIONS FOR IMPROVED DELIVERY OF CGRP INHIBITORS ~71:Pfizer Ireland Pharmaceuticals, Operations Support Group, RINGASKIDDY, CORK, IRELAND, Ireland ~72: CONWAY, Charles M.;DUBOWCHIK, Gene M.;KUMAR, Rajesh~ 33:US ~31:63/126,550 ~32:17/12/2020

2023/06489 ~ Complete ~54:VIRAL CAPSID PROTEINS WITH SPECIFICITY TO HEART TISSUE CELLS ~71:Boehringer Ingelheim International GmbH, Binger Strasse 173, INGELHEIM AM RHEIN 55216, GERMANY, Germany ~72: BLAZEVIC, Dragica;DÜCHS, Matthias;KORF-KLINGEBIEL, Mortimer;KREUZ, Sebastian;LAMLA, Thorsten;MEIER, Florian;MICHELFELDER, Stefan;SAUER, Achim;STIERSTORFER, Birgit;WOLLERT, Kai Christoph~ 33:EP ~31:20217171.6 ~32:23/12/2020;33:EP ~31:21171861.4 ~32:03/05/2021

2023/06461 ~ Complete ~54:METHODS AND COMPOSITIONS FOR IMPROVING PLANT TRAITS ~71:PIVOT BIO, INC., 2929 7th Street Suite 120, Berkeley, California, 94710, United States of America ~72: ALVIN TAMSIR;AUSTIN DAVIS-RICHARDSON;DOUGLAS HIGGINS;EMILY TUNG;KARSTEN TEMME;KEVIN HAMMILL;ROSEMARY CLARK;SARAH BLOCH~ 33:US ~31:62/445,557 ~32:12/01/2017;33:US ~31:62/445,570 ~32:12/01/2017;33:US ~31:62/447,889 ~32:18/01/2017;33:US ~31:62/467,032 ~32:03/03/2017;33:US ~31:62/566,199 ~32:29/09/2017;33:US ~31:62/577,147 ~32:25/10/2017

2023/06478 ~ Complete ~54:NOVEL FILTER DESIGN FOR USE IN COFFEE MACHINES AND FRYING OIL FILTRATION ~71:THORNE, LIONEL WAYNE BRITTANICUS, 10 Oakmont Close, Dainfern,, South Africa ~72: THORNE, LIONEL WAYNE BRITTANICUS~

2023/06485 ~ Complete ~54:CIGB-210 AND ANALOGUES FOR THE TREATMENT OF RESPIRATORY INFECTIONS OF VIRAL ORIGIN ~71:Centro de Ingeniería Genética y Biotecnología, Ave. 31 No. 15802, entre 158 y 190, Cubanacan, PLAYA 11600, LA HABANA, CUBA, Cuba ~72: ÁLVAREZ PÉREZ, Karen;CABRALES RICO, Ania;CASILLAS CASANOVA, Dionne;DUARTE CANO, Carlos Antonio;FALCON CAMA, Viviana;FERNÁNDEZ ORTEGA, Celia Berta;GARAY PÉREZ, Hilda Elisa;GUILLEN NIETO, Gerardo Enrique;PEREA RODRÍGUEZ, Silvio Ernesto;PERERA GONZÁLEZ, Carmen Laura;RAMÍREZ SUÁREZ, Anna Caridys;RODRIGUEZ MO LTO, María Pilar;UBIETA GÓMEZ, Raimundo~ 33:CU ~31:2020-0110 ~32:23/12/2020

2023/06488 ~ Complete ~54:IRAK DEGRADERS AND USES THEREOF ~71:Kymera Therapeutics, Inc., 200 Arsenal Yards Blvd., Suite 230, WATERTOWN 02472, MA, USA, United States of America ~72: FLEMING, Paul R.;JI, Nan;MAINOLFI, Nello;WEISS, Matthew M.;ZHANG, Yi;ZHENG, Xiaozhang;ZHU, Xiao~ 33:US ~31:63/132,332 ~32:30/12/2020

2023/06467 ~ Complete ~54:WEAR PART MONITORING ~71:ESCO Group LLC, 2141 NW 25th Avenue, PORTLAND 97210-2578, OR, USA, United States of America ~72: BEWLEY, Eric L.;BLOMBERG, Joseph E.;COWGILL, Noah~ 33:US ~31:61/908,458 ~32:25/11/2013

2023/06471 ~ Complete ~54:SEMI-AUTOMATED COCONUT HUSK PEELER MACHINE ~71:K.RAMAKRISHNAN COLLEGE OF ENGINEERING, NH-45, SAMAYAPURAM, Tiruchirappalli, Tamil Nadu, 621112, India ~72: HARSATH Saravanan;RAGHUVARAN Sivanandham;RAMAKRISHNAN Hariharan~

2023/06474 ~ Complete ~54:SYSTEM FOR GENERATING CARBON MONOXIDE GAS FROM SANITARY NAPKINS ~71:K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY, Kariyamanickam Road, SAMAYAPURAM, Tiruchirappalli, Tamil Nadu, 621112, India ~72: ARUL SIDHARTH Tamilarasan;DHINESH RAJA Paul Raj;Dr SREELAL Gurusamy Pandian;FLORENCE GLAUDIA Jeyaraj;MIRUDHULA Mohan;PON SWEATHA Srinivasan;SANJITH PRANAV Rajendran;SAYEED ANWAR Mohamed Tajudeen;SHIVANI Sureshkumar;SUDHARSHAN Venkatesh Kumar~

2023/06479 ~ Complete ~54:AFRICAN SWINE FEVER (ASF) VIRUS VACCINES ~71:VST LLC DBA MEDGENE LABS, 1006 32nd Avenue, Brookings, South Dakota, 57006, United States of America ~72: ALAN YOUNG~ 33:US ~31:63/128,318 ~32:21/12/2020

2023/06492 ~ Provisional ~54:APP-A-CTOR AMALGAM APPARATUS ~71:Obakeng Matlhoko, 416 Selelpe Crescent, Spruitview, South Africa;Rantsweu Matlhoko, 18 Firefly Street, Rhodesfield, South Africa ~72: OBAKENG MORAPELI MATLHOKO;RANTSHWEU MATLHOKO~

2023/06482 ~ Complete ~54:ANTI-IL1RAP ANTIBODY ~71:CANTARGIA AB, Scheelevägen 27, Sweden ~72: BIRKEDAL, Gabriel Svensson;GRÖNBERG, Caitríona;LIBERG, David;MILLRUD, Camilla Rydberg;RATTIK, Sara;SJÖSTRÖM, Kjell;VON WACHENFELDT, Karin~ 33:EP ~31:20216926.4 ~32:23/12/2020;33:GB ~31:2105933.2 ~32:26/04/2021;33:EP ~31:21212368.1 ~32:03/12/2021

2023/06483 ~ Complete ~54:PRODUCT HANDLING APPARATUSES, SYSTEMS AND ASSOCIATED METHODS ~71:Anheuser-Busch InBev S.A., Grand Place 1, BRUSSELS 1000, BELGIUM, Belgium ~72: DEKOCKER, Wim;DUPERRAY, Philippe Jean Marie;FERREIRA, Glenn;VAN MOER, Tom~ 33:BE ~31:2020/5973 ~32:23/12/2020

2023/06458 ~ Provisional ~54:HIGH TORSION PROFILE FRICTION BOLT STABILIZER ~71:Theodore Daniel Swemmer, PO Box 75746, South Africa ~72: Theodore Daniel Swemmer~

2023/06470 ~ Complete ~54:A SYSTEM FOR CONVERTING THE AGRICULTURAL WASTES INTO BIOGAS ~71:K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY, Kariyamanickam Road, SAMAYAPURAM, Tiruchirappalli, Tamil Nadu, 621112, India ~72: ARUL SIDHARTH Tamilarasan;DHINESH RAJA Paul Raj;Dr SREELAL Gurusamy Pandian;Dr Sujatha Sivarethinamohan;FLORENCE GLAUDIA Jeyaraj;JEMINA Irudhayaraj;SANJITH PRANAV Rajendran;SAYEED ANWAR Mohamed Tajudeen;SUDHARSHAN Venkatesh Kumar;VARUNIKKA Ravi~

2023/06477 ~ Complete ~54:SYSTEM FOR CHILD MONITORING AND METHOD THEREOF ~71:K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY, Kariyamanickam Road, SAMAYAPURAM, Tiruchirappalli, Tamil Nadu, 621112, India ~72: Anju Anil Jalaja;Devisri Balasubramanian;Dr Kavitha Maruthai~

2023/06480 ~ Complete ~54:UREA CALCIUM SULFATE COATED UREA FERTILIZER AND BLENDS THEREOF ~71:SABIC GLOBAL TECHNOLOGIES B.V., Plasticslaan 1, 4612 PX, Bergen op Zoom, Netherlands ~72: ANDREW GEORGE KELLS;NILKAMAL BAG;YOGESH OMPRAKASH SHARMA~ 33:US ~31:63/129,843 ~32:23/12/2020

2023/06484 ~ Complete ~54:AN ARTICLE PICKING AND PLACING SYSTEM ~71:Anheuser-Busch InBev S.A., Grand Place 1, BRUSSELS 1000, BELGIUM, Belgium ~72: DEKOCKER, Wim;DUPERRAY, Philippe Jean Marie;FERREIRA, Glenn;LAMBRECHTS, Kristof;PEELMAN, Manu;ROMBAUT, David;TRIEST, Frederik;VAN MOER, Tom~ 33:BE ~31:2020/5971 ~32:23/12/2020

2023/06490 ~ Complete ~54:SUBSTITUTED AMINOBENZYL HETEROARYL COMPOUNDS AS EGFR AND/OR PI3K INHIBITORS ~71:Mekanistic Therapeutics LLC, 1600 Huron Parkway, Building 520, 2nd Floor, ANN ARBOR 48109, MI, USA, United States of America ~72: LEOPOLD, Judith;WHITEHEAD, Christopher~ 33:US ~31:63/129,368 ~32:22/12/2020

. - APPLIED ON 2023/06/23 -

2023/06529 ~ Complete ~54:FAST CURE AQUEOUS PAINT COMPOSITION ~71:TEAM SEGNAL S.R.L., Via dell'Artigianato, 22/24, I-26867 Somaglia, Lombardy, Italy ~72: CLAUDIO GIUSEPPE BIGNAMI~ 33:IT ~31:102020000028805 ~32:27/11/2020

2023/06506 ~ Complete ~54:WATER MANAGEMENT SYSTEM ~71:WET WATER DISTRIBUTION CC, 22 Smithville Illovo, South Africa ~72: MUTHUSAMY, Loganthan~ 33:ZA ~31:2022/08767 ~32:05/08/2022

2023/06508 ~ Complete ~54:STABLE LIQUID LIPID NANOPARTICLE FORMULATIONS ~71:TRANSLATE BIO, INC., 200 West Street, Waltham, MA, United States of America ~72: DEROSA, Frank;KARVE, Shrirang;MONTOYA, Natalia Vargas;PATEL, Priyal;SARODE, Ashish~ 33:US ~31:63/118,243 ~32:25/11/2020

2023/06514 ~ Complete ~54:ORAL THERAPEUTIC DELIVERY ~71:ROYAL MELBOURNE INSTITUTE OF TECHNOLOGY, 124 La Trobe Street, Australia ~72: CONN, Charlotte Elizabeth;STRACHAN, Jamie~ 33:AU ~31:2020904426 ~32:30/11/2020;33:AU ~31:2021900348 ~32:12/02/2021

2023/06527 ~ Complete ~54:IMPROVED DETECTION OF GENOMIC SEQUENCES AND PROBE MOLECULES THEREFOR ~71:SAFEGUARD BIOSYSTEMS HOLDINGS LTD, Quadrant House 6th Floor Thomas More Square, United Kingdom ~72: Holger KLAPPROTH;Sonja BEDNAR~ 33:US ~31:63/139,643 ~32:20/01/2021;33:EP ~31:PCT/EP2022/051242 ~32:20/01/2022

2023/06533 ~ Complete ~54:SMALL MOLECULES FOR REPROGRAMING ANTI-TUMOR IMMUNITY OF T CELLS ~71:THE SCRIPPS RESEARCH INSTITUTE, 10550 North Torrey Pines Road, La Jolla, California, 92037, United States of America ~72: PENG WU;YINGQIN HOU;YUJIE SHI~ 33:US ~31:63/136,585 ~32:12/01/2021

2023/06495 ~ Provisional ~54:COST SAVING METHOD FOR COMPLEX PCB ASSEMBLIES ~71:AZOTEQ HOLDINGS LIMITED, c/o Spyrou Kyprianou Avenue 20, Chapo Central, Cyprus ~72: RADEMEYER, Daniel Barend~

2023/06502 ~ Complete ~54:SPRAY GUN WITH ADJUSTABLE ATOMIZER AND REMOVABLE NOZZLE BODY ~71:NORAM ENGINEERING AND CONSTRUCTORS LTD., Granville Square Suite 1800, 200 Granville Street, Canada ~72: CRANE, Robert;LONDRY, Neal;VANMUYEN, Arie~ 33:US ~31:18/203544 ~32:30/05/2023

2023/06504 ~ Complete ~54:INJECTABLE FORMULATION OF A MACROCYCLIC LACTONE AND LEVAMISOLE ~71:Intervet International B.V., Wim de Körverstraat 35, BOXMEER 5831 AN, THE NETHERLANDS, Netherlands ~72: ASSIS, Ulisses Rafael Santos;CORTEZ, Luiz Daniel;VETTORATO, Luis Fernando~ 33:US ~31:62/270,721 ~32:22/12/2015

2023/06507 ~ Complete ~54:METHODS FOR TREATING OR PREVENTING TTR-ASSOCIATED DISEASES USING TRANSTHYRETIN (TTR) IRNA COMPOSITIONS ~71:ALNYLAM PHARMACEUTICALS, INC., 300 Third

Street 3rd Floor, Cambridge, Massachusetts, 02142, United States of America ~72: AMY CHAN;GABRIEL ROBBIE;HUSAIN Z ATTARWALA;JOHN VEST;VARUN GOEL~ 33:US ~31:62/435,127 ~32:16/12/2016

2023/06517 ~ Complete ~54:SYSTEM AND METHOD FOR VERIFYING CONTROL LOGIC DESIGN OF NUCLEAR POWER PLANT ~71:Shanghai Nuclear Engineering Research & Design Institute Co., Ltd., No. 29 Hongcao Road, Xuhui District, SHANGHAI 200233, CHINA (P.R.C.), People's Republic of China ~72: LI, Hui;LI, Xiaoyan;LIN, Zhiyong;LU, Junlin;WANG, Xu;XI, Weijun;YANG, Yanru;YAO, Xudong;ZHANG, Henan~ 33:CN ~31:202011551715.8 ~32:24/12/2020

2023/06524 ~ Complete ~54:CORNER HALF ARROW FOR A BUCKET ~71:Sandvik Mining and Construction Australia (Production Supply) Pty Ltd, Level 5, 135 Coronation Drive, MILTON 4064, QUEENSLAND, AUSTRALIA, Australia ~72: HYVÖNEN, Ilkka;KNOWLES, Bruce~ 33:EP ~31:20215738.4 ~32:18/12/2020

2023/06531 ~ Complete ~54:METHOD AND APPARATUS FOR INCREMENTAL MAPPING OF HAUL ROADS ~71:TECHNOLOGICAL RESOURCES PTY. LIMITED, Level 7, 360 Collins Street, Melbourne, Victoria, 3000, Australia ~72: KONSTANTIN M SEILER~ 33:AU ~31:2020904376 ~32:26/11/2020

2023/06496 ~ Provisional ~54:RETAINING MESH ASSEMBLY ~71:Clear Creek Trading 167 (Pty) Ltd., 11 Brammer Street, South Africa ~72: VAN DER MERWE, Lukas Cornelius~

2023/06512 ~ Complete ~54:FEEDSTOCK PROCESSING METHOD AND SYSTEM ~71:DEFUGO TECHNOLOGIES PTE LTD, 10 Jalan, Singapore ~72: COLEMAN, David~ 33:AU ~31:2020904315 ~32:23/11/2020;33:AU ~31:2020904477 ~32:03/12/2020;33:AU ~31:2021221469 ~32:24/08/2021

2023/06515 ~ Complete ~54:TOPICAL COMPOSITION OF PIRFENIDONE ~71:CIPLA LIMITED, Cipla House, Peninsula Business Park, Ganpatrao Kadam Marg, Lower Parel, Mumbai, India ~72: CHITRE, Trupti;MARATHE, Vinayak~ 33:IN ~31:202021054667 ~32:16/12/2020

2023/06534 ~ Complete ~54:COMBINATION THERAPY WITH FOR46 FOR CANCER ~71:FORTIS THERAPEUTICS, INC., 11099 North Torrey Pines Road Suite 290 La Jolla, California, 92037, United States of America;THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, 1111 Franklin Street, Twelfth Floor, Oakland, California, 95607, United States of America ~72: ANDREW DORR;BIN LIU;JAY LICHTER;LEONARD POST;MARC NASOFF~ 33:US ~31:63/134,896 ~32:07/01/2021

2023/06494 ~ Provisional ~54:A SYSTEM TO ENABLE MANAGEMENT OF AN EMPLOYMENT RELATIONSHIP BETWEEN AN EMPLOYER AND AN EMPLOYEE ~71:LABOURDRIVE (PTY) LTD, Shop 7, 30 Marine Drive, South Africa ~72: HARALAMBOUS, Christodoulos;MATTHEWS, Dane;WILSON, James~

2023/06497 ~ Provisional ~54:PEDAL MECHANISM FOR A SCOOTER ~71:AUGUSTO, Joaquim Da Silva, Unit 27 Beverley Hills, 6 Beverley Avenue, BASSONIA, Johannesburg 2190, Gauteng, SOUTH AFRICA, South Africa ~72: AUGUSTO, Joaquim Da Silva~

2023/06500 ~ Complete ~54:MODIFIED NOROVIRUS VP1 PROTEINS AND VLPS COMPRISING MODIFIED NOROVIRUS VP1 PROTEINS ~71:MEDICAGO INC., 1020, ROUTE DE I'EGLISE, SUITE 600, QUEBEC, QUEBEC, G1V 3V9, CANADA, Canada ~72: D'AOUST, Marc-André;LAVOIE, Pierre-Olivier~ 33:US ~31:62/593,006 ~32:30/11/2017;33:US ~31:62/712,744 ~32:31/07/2018

2023/06501 ~ Complete ~54:SYSTEMS AND METHODS FOR INDUSTRIAL ROBOTICS ~71:OFF-WORLD, INC., 2031 E Foothill Blvd, Pasadena, United States of America ~72: IZENBERG, Joshua Jeremy;KAVELAARS, Alicia Teresa;KERAVALA, James;KOLLIPARA, Amaresh;MURRAY, James Jason;NALL, Mark Eugene~ 33:US ~31:62/923,357 ~32:18/10/2019;33:US ~31:62/923,376 ~32:18/10/2019

2023/06510 ~ Complete ~54:GRAPHENE PROCESSING TECHNIQUE ~71:THE UNIVERSITY OF QUEENSLAND, THE UNIVERSITY OF QUEENSLAND, ST LUCIA, QUEENSLAND, 4072 AUSTRALIA, Australia ~72: HUANG, Xiaodan;KONG, Yueqi;YU, Chengzhong~ 33:AU ~31:2020904365 ~32:25/11/2020

2023/06522 ~ Complete ~54:PANE WITH ELECTRIC CONNECTION ELEMENT ~71:Saint-Gobain Glass France, Tour Saint-Gobain, 12 Place de l'Iris, COURBEVOIE 92400, FRANCE, France ~72: HELWER, Katja;RATEICZAK, Mitja;REUL, Bernhard~ 33:EP ~31:21150437.8 ~32:06/01/2021

2023/06493 ~ Provisional ~54:A COMPLIANT STENT-GRAFT ~71:ASCENSE MEDICAL GmbH, Modecenterstraße 22/D14, Austria ~72: MOORE, Michael~

2023/06499 ~ Provisional ~54:MENSTRUAL PROBLEMS ~71:Vernon MANTER, 256 Victoria Street, South Africa ~72: Vernon MANTER~

2023/06503 ~ Complete ~54:COMPOSITIONS AND METHODS FOR IMMUNOTHERAPY ~71:Memorial Sloan-Kettering Cancer Center, 1275 York Avenue, NEW YORK 10065, NY, USA, United States of America ~72: FEDOROV, Victor D.;SADELAIN, Michel~ 33:US ~31:61/802,118 ~32:15/03/2013

2023/06505 ~ Complete ~54:DIRECT SELECTION OF CELLS EXPRESSING HIGH LEVELS OF HETEROMERIC PROTEINS USING GLUTAMINE SYNTHETASE INTRAGENIC COMPLEMENTATION VECTORS ~71:Amgen Inc., One Amgen Center Drive, THOUSAND OAKS 91320, CA, USA, United States of America ~72: FOMINA YADLIN, Dina A.;KETCHEM, Randal R.;MCGREW, Jeffrey T.~ 33:US ~31:62/334,966 ~32:11/05/2016

2023/06509 ~ Complete ~54:A SCAFFOLD CONNECTION ELEMENT, PARTS THEREOF, AND ASSOCIATED METHODS ~71:THREE G METAL FABRICATIONS LTD, 2 Selbury Drive, Oadby, Leicester, United Kingdom ~72: BAINS, Gurdip Singh~ 33:GB ~31:2018760.5 ~32:27/11/2020

2023/06518 ~ Complete ~54:GENE THERAPIES FOR NEURODEGENERATIVE DISEASE ~71:Prevail Therapeutics, Inc., 430 East 29th Street, Suite 940, NEW YORK 10016, NY, USA, United States of America ~72: ABELIOVICH, Asa;KAMALAKARAN, Sitharthan;SCHWARTZ, Edmund C.;SEN, Anindya Kumar;SHYKIND, Benjamin~ 33:US ~31:63/118,060 ~32:25/11/2020

2023/06528 ~ Complete ~54:POLYPEPTIDE SPECIFIC FOR MUCIN 1 AND USE THEREOF ~71:LG CHEM, LTD., 128, Yeoui-daero, Yeongdeungpo-gu, Seoul, 07336, Republic of Korea ~72: AREUM PARK;DAE GWAN YI;EU RIM SONG;EUN JI JEUN;HAE YOUN LEE;HEE JUNG YANG;HYOJU YI;JI HYUN LEE;JUNGWON CHOI;KYUBONG NA;KYUHONG CHOE;MIN JEONG PARK;SAEM JUNG;SUNG WOONG JANG;YOON AA CHOI~ 33:KR ~31:10-2020-0183768 ~32:24/12/2020;33:KR ~31:10-2021-0137757 ~32:15/10/2021

2023/06530 ~ Complete ~54:METHOD FOR OBTAINING NITROCELLULOSE-BASED STRUCTURES BY MEANS OF ADDITIVE MANUFACTURING ~71:EURENCO, 26 Allée des Saules, Sorgues, 84700, France ~72: CLARA DEBIESSE;DAMIEN CHAVEROUX;PASCAL RUMEAU;SÉBASTIEN CUVELIER~ 33:FR ~31:FR2013224 ~32:15/12/2020

2023/06521 ~ Complete ~54:JAK INHIBITOR WITH A VITAMIN D ANALOG FOR TREATMENT OF SKIN DISEASES ~71:Incyte Corporation, 1801 Augustine Cut-Off, WILMINGTON 19803, DE, USA, United States of America ~72: FIDGE, James;PARKER, Melissa;SMITH, Paul;ZHANG, Zheng~ 33:US ~31:63/121,531 ~32:04/12/2020;33:US ~31:63/199,876 ~32:29/01/2021

2023/06520 ~ Complete ~54:SYSTEM AND METHOD FOR RESOURCE EFFICIENT CARBON DIOXIDE CAPTURE ~71:Arizona Board of Regents on behalf of Arizona State University, SkySong, 1475 N. Scottsdale

Road, Suite 200, SCOTTSDALE 85257, AZ, USA, United States of America ~72: CIRUCCI, John;LACKNER, Klaus~ 33:US ~31:63/123,219 ~32:09/12/2020

2023/06526 ~ Complete ~54:A MODULAR BATTERY SYSTEM AND A METHOD OF PROVIDING POWER USING THE BATTERY SYSTEM ~71:ACKERMANN, Christiaan Gerhardus, 9 Silverboomkloof, Spanish Farm, SOMERSET WEST 7130, SOUTH AFRICA, South Africa ~72: ACKERMANN, Christiaan Gerhardus~ 33:ZA ~31:2020/07494 ~32:02/12/2020

2023/06516 ~ Complete ~54:METHODS OF PREVENTING, DELAYING OR AMELIORATING ATOPIC DISEASES ~71:Johnson & Johnson Consumer Inc., 199 Grandview Road, SKILLMAN 08558, NJ, USA, United States of America ~72: FARAHI, Kamyar;INSEL, Richard;NEEDLEMAN, Dolores~ 33:US ~31:63/117,562 ~32:24/11/2020

2023/06525 ~ Complete ~54:AN ARTICLE FOR AN AEROSOL PROVISION SYSTEM ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: ELGAR, Glen;HEPWORTH, Richard;JENKINS, Ben~ 33:GB ~31:2020589.4 ~32:24/12/2020;33:GB ~31:2109451.1 ~32:30/06/2021

2023/06535 ~ Complete ~54:DETERGENT COMPOSITION ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: NARAYANAN SUBRAHMANIAM;PANCHANAN BHUNIA;RAHUL NARENDRASINGH DIXIT;SUBHAJIT MANNA~ 33:EP ~31:21154536.3 ~32:01/02/2021

2023/06511 ~ Complete ~54:WRAPPING APPARATUS AND METHOD ~71:KATHOLIEKE UNIVERSITEIT LEUVEN, KU LEUVEN RESEARCH & DEVELOPMENT, WAAISTRAAT 6 BOX 5105, 3000 LEUVEN, BELGIUM, Belgium ~72: JUWET, Marc~ 33:CA ~31:3.104.009 ~32:23/12/2020

2023/06523 ~ Complete ~54:METHOD AND APPARATUS FOR SEPARATING VALUABLE MINERALS FROM ORE ~71:Kaakkois-Suomen Ammattikorkeakoulu Oy, Patteristonkatu 3 D, MIKKELI 50100, FINLAND, Finland ~72: KUOPANPORTTI, Hannu;LINNANEN, Teijo~ 33:FI ~31:20206294 ~32:14/12/2020

2023/06532 ~ Complete ~54:POST-TENSIONED CONCRETE WITH FIBERS FOR LONG STRIPS ~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 ~31:20250006.2 ~32:23/12/2020

2023/06498 ~ Provisional ~54:FENCE ARRANGEMENT ~71:MHANGANA TECHNOLOGIES (PTY) LTD., 14 African Street, GRAHAMSTOWN 6139, Eastern Cape, SOUTH AFRICA, South Africa ~72: DU PLESSIS, Frans~

2023/06513 ~ Complete ~54:SATELLITE WITH DEPLOYABLE OPTICAL ASSEMBLY ~71:BRODA, Kurtis, 2412 - 6 Ave NW, Calgary, Canada;COTE, Kristen, 137 Bedford Rd., Toronto, Canada;LISSINNA, Callie, 6015 - 183 Street NW, Edmonton, Canada;ROBSON, Christopher, 20 - 1005 Graydon Hill Blvd. SW, Edmonton, Canada;SAUER, Vincent, 205 - 11147 82 Ave NW, Edmonton, Canada ~72: BRODA, Kurtis;COTE, Kristen;LISSINNA, Callie;ROBSON, Christopher;SAUER, Vincent~ 33:US ~31:63/118,696 ~32:26/11/2020

2023/06519 ~ Complete ~54:GENERATING AND VALIDATING BLOCKCHAIN TRANSACTIONS ~71:nChain Licensing AG, Grafenauweg 6, ZUG 6300, SWITZERLAND, Switzerland ~72: AMMAR, Bassem;COUGHLAN, Steven Patrick;ZHANG, Wei~ 33:GB ~31:2019748.9 ~32:15/12/2020

ASSIGNMENTS IN TERMS OF SECTION 60-REGULATIONS 58-60 AND 64 (1)

Application Number	Assignor	Assignee
2022/05957	CLAUDIA ANGELIQUE SINGH	CLAUDIA ANGELIQUE SINGH; TANIA MULLIGAN; ASHLEY JULIAN BOYCE MULLIGAN
2018/03320	FOREVER CHEER INTERNATIONAL LIMITED	FOREVER CHEER HOLDING LIMITED
2017/04409	FOREVER CHEER INTERNATIONAL LIMITED	FOREVER CHEER HOLDING LIMITED
2022/09115	TONGWEI CO., LTD.	TONGWEI AGRICULTURAL DEVELOPMENT CO., LTD.
2015/06573	KAMBIZ SHEKDAR	RESEARCH FOUNDATION TO CURE AIDS
2014/07271	SWEETWATER ENERGY, INC.	APALTA PATENTS OU
2022/00463	THYSSENKRUPP INDUSTRIAL SOLUTIONS AG	FLSMIDTH A/S
2019/08218	THYSSENKRUPP AG	THYSSENKRUPP INDUSTRIAL SOLUTIONS AG
2019/08218	THYSSENKRUPP INDUSTRIAL SOLUTIONS AG	FLSMIDTH A/S
2020/01996	THYSSENKRUPP AG	THYSSENKRUPP INDUSTRIAL SOLUTIONS AG
2020/01996	THYSSENKRUPP INDUSTRIAL SOLUTIONS AG	FLSMIDTH A/S
2020/06187	THYSSENKRUPP AG	THYSSENKRUPP INDUSTRIAL SOLUTIONS AG
2020/06187	THYSSENKRUPP INDUSTRIAL SOLUTIONS AG	FLSMIDTH A/S
2021/09426	THYSSENKRUPP AG	THYSSENKRUPP INDUSTRIAL SOLUTIONS AG
2021/09426	THYSSENKRUPP INDUSTRIAL SOLUTIONS AG	FLSMIDTH A/S
2022/00399	THYSSENKRUPP AG	THYSSENKRUPP INDUSTRIAL SOLUTIONS AG
2022/00399	THYSSENKRUPP INDUSTRIAL SOLUTIONS AG	FLSMIDTH A/S
2022/00590	THYSSENKRUPP AG	THYSSENKRUPP INDUSTRIAL SOLUTIONS AG
2022/00590	THYSSENKRUPP INDUSTRIAL SOLUTIONS AG	FLSMIDTH A/S
2022/06443	THYSSENKRUPP AG	THYSSENKRUPP INDUSTRIAL SOLUTIONS AG
2022/06443	THYSSENKRUPP INDUSTRIAL SOLUTIONS AG	FLSMIDTH A/S
2022/12803	THYSSENKRUPP AG	THYSSENKRUPP INDUSTRIAL SOLUTIONS AG
2022/12803	THYSSENKRUPP INDUSTRIAL SOLUTIONS AG	FLSMIDTH A/S
2021/06372	KAMEI, MASAMICHI	LAND BUSINESS CO., LTD.
2020/05582	JONATHAN O'CONNELL	SAL SYSTEMS (PTY) LTD
2020/05071	JONATHAN O'CONNELL	SAL SYSTEMS (PTY) LTD
2012/09722	AE ROTOR HOLDING B.V.	SUZLON ENERGY LTD

Application Number	Assignor	Assignee
2021/05632	SMITH, LUCAS HECTOR IZARD	WOOLAID LIMITED
2008/02975	METSO MINERALS (WEAR PROTECTION) AB	NORDBERG MILLS (SWEDEN) AB
2008/02975	NORDBERG MILLS (SWEDEN) AB	METSO MINERALS (SWEDEN) AB
2008/02975	METSO SWEDEN AB	METSO MINERALS OY
2021/01523	I-MAB BIOPHARMA US LIMITED	I-MAB BIOPHARMA CO., LTD.
2020/03580	I-MAB BIOPHARMA US LIMITED	I-MAB BIOPHARMA CO., LTD.
2021/03174	I-MAB BIOPHARMA US LIMITED	I-MAB BIOPHARMA CO., LTD.
2019/00193	I-MAB BIOPHARMA US LIMITED	I-MAB BIOPHARMA CO., LTD.
2019/04619	I-MAB BIOPHARMA US LIMITED	I-MAB BIOPHARMA CO., LTD.
2013/01895	BIZIWE (PTY) LTD	THE TRUSTEES FOR THE TIME BEING OF THE HABEO TRUST
2018/04023	SUEZ GROUPE	SUEZ INTERNATIONAL
2021/09516	MEREDIAN, INC.	DANIMER IPCO, LLC
2023/04597	MEREDIAN, INC.	DANIMER IPCO, LLC
2021/09517	MEREDIAN, INC.	DANIMER IPCO, LLC
2023/02557	MEREDIAN, INC.	DANIMER IPCO, LLC
2023/04589	MEREDIAN, INC.	DANIMER IPCO, LLC
2023/04590	MEREDIAN, INC.	DANIMER IPCO, LLC
2021/02416	MEREDIAN, INC.	DANIMER IPCO, LLC
2021/09515	MEREDIAN, INC.	DANIMER IPCO, LLC
2021/02319	MEREDIAN, INC.	DANIMER IPCO, LLC
2021/01369	MEREDIAN, INC.	DANIMER IPCO, LLC
2023/04598	MEREDIAN, INC.	DANIMER IPCO, LLC
2017/03864	4D PHARMA RESEARCH LIMITED	CJ BIOSCIENCE, INC.
2019/02028	COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION	NUSEED GLOBAL INNOVATION LTD
2022/13973	ALAN KOZIKOWSKI	THE BOARD OF TRUSTEES OF THE UNIVERSITY OF ILLINOIS
2014/05075	COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION	NUSEED GLOBAL INNOVATION LTD
2017/00116	COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION	NUSEED GLOBAL INNOVATION LTD
2013/00684	COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION	NUSEED GLOBAL INNOVATION LTD
2023/04202	TAIYUAN UNIVERSITY OF TECHNOLOGY	NANKAI UNIVERSITY and SHANXI CANCEL HOSPITAL
2015/03248	DEHN SE + CO KG	DEHN SE
2020/02950	DEHN SE + CO KG	DEHN SE
2023/04027	SWEETWATER ENERGY INC.	APALTA PATENTS OU
2023/04028	SWEETWATER ENERGY INC.	APALTA PATENTS OU
2023/04047	SWEETWATER ENERGY INC.	APALTA PATENTS OU
2022/11667	TENEOBIO, INC.	TENEOONE, INC.
2021/00279	PHENEX-FXR GMBH	PHENEX PHARMACEUTICALS AKTIENGESELLSCHAFT

Application Number	Assignor	Assignee
2021/00279	PHENEX PHARMACEUTICALS AKTIENGESELLSCHAFT	THE LIVER COMPANY, INC.
2015/07481	ABBVIE INC.	REATA PHARMACEUTICALS HOLDINGS, LLC
2021/06438	CELLORYX AG	AUREALIS THERAPEUTICS AG
2004/10055	KME SPECIAL PRODUCTS GMBH	BLITZ F19-906 GMBH & CO. KG
2004/10055	KME SPECIAL PRODUCTS GMBH & CO. KG	CUNOVA GMBH
2004/04032	KME SPECIAL PRODUCTS GMBH & CO. KG	CUNOVA GMBH
2019/00869	BIONOU RESEARCH, S.L., KOROTT, S.L and BIOPOLIS, S.L.	BIOPOLIS, S.L. and BIONOU RESEARCH, S.L.
2022/10223	YANG, MANJUN	GUANGZHOU XINYUAN BIOTECHNOLOGY CO., LTD.
2016/07028	EVAC GMBH	EV PARTICIPATIONS GMBH
2017/00292	CLOVIS ONCOLOGY, INC.	PHARMA & SCHWEIZ GMBH

CHANGE OF NAME IN TERMS OF REGULATION 39

Application Number	In the name of	New name
2009/04675	ADVANCED MATERIAL ENGINEERING PTE LTD.	ST ENGINEERING ADVANCED MATERIAL ENGINEERING PTE. LTD.
2010/06217	ADVANCED MATERIAL ENGINEERING PTE LTD.	ST ENGINEERING ADVANCED MATERIAL ENGINEERING PTE. LTD.
2018/00022	AURIGENE DISCOVERY TECHNOLOGIES LIMITED	AURIGENE ONCOLOGY LIMITED
2019/01912	CHIASMA, INC.	AMRYT ENDO, INC.
2023/03438	CHIASMA, INC.	AMRYT ENDO, INC.
2008/02975	METSO MINERALS (SWEDEN) AB	METSO SWEDEN AB
2008/02975	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2019/02903	NINGBO JENSCARE BIOTECHNOLOGY CO., LTD.	JENSCARE SCIENTIFIC CO., LTD.
2022/07435	TF TECH VENTURES, INC.	CURE PHARMACEUTICAL, INC.
2021/00395	TF TECH VENTURES, INC.	CURE PHARMACEUTICAL, INC.
2020/07022	WORG PHARMACEUTICALS (HANGZHOU) CO., LTD.	WORG PHARMACEUTICALS (ZHEJIANG) CO., LTD.
2020/04564	ARS PHARMACEUTICALS INC.	ARS PHARMACEUTICALS OPERATIONS, INC.
2009/05199	BRITA GMBH	BRITA SE
2009/05131	BRITA GMBH	BRITA SE
2022/03676	SOM INNOVATION BIOTECH S.L.	GALACTIC TELECOM GROUP, LLC
2016/07195	MITSUI CHEMICALS AGRO, INC.	MITSUI CHEMICALS CROP & LIFE SOLUTIONS, INC.
2020/04608	DEHN SE + CO KG	DEHN SE
2021/02780	THE CLIMATE CORPORATION	CLIMATE LLC
2020/06255	ORIGINCELL THERAPEUTICS CO., LTD.	ORICELL THERAPEUTICS CO., LTD.
2004/10055	KME GERMANY GMBH & CO. KG	KME GERMANY GMBH

Application Number	In the name of	New name
2004/10055	KME GERMANY GMBH	KME SPECIAL PRODUCTS GMBH
2004/10055	BLITZ F19-906 GMBH & CO. KG	KME SPECIAL PRODUCTS GMBH & CO. KG
2004/04032	KME GERMANY GMBH & CO. KG	KME GERMANY GMBH
2004/04032	KME GERMANY GMBH	KME SPECIAL PRODUCTS GMBH
2004/04032	BLITZ F19-906 GMBH & CO. KG	KME SPECIAL PRODUCTS GMBH & CO. KG

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
2023/01118	WITHDRAWN	26/05/2023

APPLICATION FOR RESTORATION OF A LAPSED PATENT

THE PATENTS ACT, No. 57 OF 1978

APPLICATION FOR THE RESTORATION OF A LAPSED PATENT UNDER SECTION 47 OF THE ACT

Notice is hereby given that **STEENKAMP, Alexander,** whose address for service is **ADAMS & ADAMS, LYNNWOOD MANOR, PRETORIA** has applied to the registrar for the restoration of Patent No **2018/04642** entitled **A MONITORING DEVICE FOR ELECTRICALLY CONDUCTIVE HV (HIGH VOLTAGE) CABLES,** dated **12/07/2018**, which lapsed on **12/07/2021** 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.

Notice is hereby given that **KATHLEEN NIEUWENHUYS,** whose address for service is **ADAMS & ADAMS, LYNNWOOD MANOR, PRETORIA** has applied to the registrar for the restoration of Patent No **2019/05950** entitled **DEVICE FOR HOLDING NAILS**, dated **10/09/2019**, which lapsed on **10/09/2022** 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 **JOINT STOCK COMPANY "AKME-ENGINEERING"**, whose address for service is **SIBANDA & ZANTWIJK, JOHANNESBURG** has applied to the registrar for the restoration of Patent No

2015/04076 entitled **NUCLEAR REACTOR WITH LIQUID METAL COOLANT**, dated **26/11/2012**, which lapsed on **26/11/2020** 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 **JOINT STOCK COMPANY "AKME-ENGINEERING"**, whose address for service is **SIBANDA & ZANTWIJK, JOHANNESBURG** has applied to the registrar for the restoration of Patent No **2017/04153** entitled **PUMP FOR PUMPING SMELT**, dated **16/11/2015**, which lapsed on **16/11/2019** 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 **JOINT STOCK COMPANY "AKME-ENGINEERING"**, whose address for service is **SIBANDA & ZANTWIJK, JOHANNESBURG** has applied to the registrar for the restoration of Patent No **2017/04787** entitled **SENSOR FOR SENSING HYDROGEN IN LIQUID AND GASEOUS MEDIA**, dated **16/11/2015**, which lapsed on **16/11/2019** 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 **OHMS INNOVATIONS (PTY) LTD**, whose address for service is **RICHARDS ATTORNEYS INC, ROODEPOORT** has applied to the registrar for the restoration of Patent No **2019/05483** entitled **METHOD OF UNDERGROUND MINING**, dated **20/08/2019**, which lapsed on **20/08/2022** 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.

THE PATENTS ACT, No. 57 OF 1978

VOLUNTARY SURRENDER OF A PATENT UNDER SECTION 64 (1), REGULATION 67 OF THE ACT

No records available

APPLICATIONS TO AMEND SPECIFICATION

THE PATENTS ACT, 1978

APPLICATIONS TO AMEND SPECIFICATION

Applicant: Seal Chemistry (Pty) Ltd 10 Darby Place, Mariann Industrial Park, Pinetown 3610 Durban. Request permission to amend the specification of letters patent no: **2019/01612** of **15/03/2019** for **COATED PAPERBOARD SOAP STIFFENER TO REPLACE PAPERBOARD/FILM LAMINATES.**

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: KalVista Pharmaceuticals Limited Building 227, Tetricus Science Park, Porton Down, SALISBURY SP4 0JQ, UNITED KINGDOM. Request permission to amend the specification of letters patent no: **2017/04324** of **26/06/2017** for **N-((HET) ARYLMETHYL)-HETEROARYL-CARBOXAMIDES COMPOUNDS AS PLASMA KALLIKREIN INHIBITORS.**

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: METINDUSTRIAL (PTY) LIMITED- trading through its division FIRST NATIONAL BATTERY LIVERPOOL ROAD INDUSTRIAL SITES 1502 BENONI. Request permission to amend the specification of letters patent no: **2013/09132** of **04/12/2013** for **DEVICE FOR LEAD ACID BATTERY FORMATION**.

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: QUORUM INNOVATIONS, LLC 2088 Hawthorne Street, Sarasota FL 34239. Request permission to amend the specification of letters patent no: **2018/00209** of **11/01/2018** for **MATERIALS AND METHODS FOR IMPROVING IMMUNE RESPONSES AND THE SKIN AND/OR MUCOSAL BARRIER FUNCTION**.

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: WILHELM LAYHER VERWALTUNGS-GMBH Ochsenbacher Str. 56 74363 Güglingen-Eibensbach. Request permission to amend the specification of letters patent no: **2018/06082** of **11/09/2018** for **FLOOR STRUCTURE FOR EVENTS.**

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: PRIMETEH A/S Smerla iela 3, Riga, LV-1006. Request permission to amend the specification of letters patent no: **2012/03212** of **04/05/2012** for **COMPOSITE CONCRETE FOR FLOOR SLABS AND RAFTS**.

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**

(Payment to be affected by means of revenue stamps only.)

COMPLETE SPECIFICATIONS ACCEPTED AND ABRIDGEMENTS OR ABSTRACTS THEREOF

Complete specifications in respect of the under mentioned applications for letters Patent have been accepted by the Registrar of Patents.

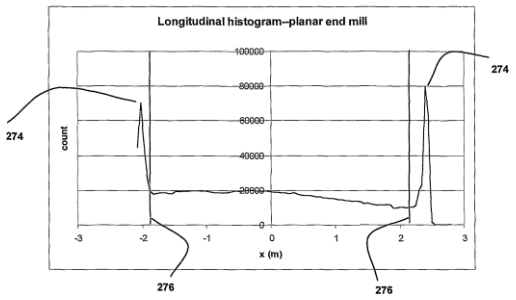
THE PATENTS ACT, 1978 (ACT NO. 57 OF 1978)

In terms of section 42 (b) of the Patents Act, 1978, a patent shall be deemed to have been sealed and granted as from the date of publication of the acceptance.

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

Registrar of Patents

21: 2009/04966. 22: 2009/07/16. 43: 2023/04/24
51: G01B G06T
71: METSO OUTOTEC FINLAND OY
72: LICHTI, Derek, STEWART, Michael, Paul, FRANKE, Jochen
33: AU 31: 2006907121 32: 2006-12-20
54: A SYSTEM AND METHOD FOR ORIENTATING SCAN CLOUD DATA RELATIVE TO BASE REFERENCE DATA
00: -
A system for orientating scan cloud data of a surface relative to base reference data A system for aligning scan cloud with data with a base reference data for measuring the displacement of a surface relative to a base reference including a scanning means to generate point cloud data in respect of a measure of the spatial orientation of a distal surface relative to a reference point to define a three-dimensional image of said surface including an input source generator adapted to provide said scan cloud data; and storage means to store base reference data in respect of the spatial orientation of a base reference relative to said surface and a tilt-correction means for orientating said point cloud data relative to the base reference data; and a data editing means to filter spurious point data from the accumulated point cloud data and a processing means to process said point cloud data and said base reference data to determine the relative displacement of said surface with respect to said base reference. The system also provides for the measurement of the volume of objects that are non-fixably connected to a surface and to measure the size of apertures in a surface. Finally, the invention provides a system for identifying features in scan cloud data of a surface including an input source generator adapted to provide said scan cloud data and a partitioning means to partition said point cloud data into discrete segments corresponding to different geometrically described sections of said surface.



21: 2012/09226. 22: 2012/12/06. 43: 2023/04/11
51: B02C
71: SCANALYSE PTY LTD
72: FRANKE, Jochen, STEWART, Michael, Paul, LICHTI, Derek
33: AU 31: 2011905064 32: 2011-12-06
54: A SYSTEM AND METHOD FOR MEASURING AND MAPPING A SURFACE RELATIVE TO A REFERENCE
00: -
A system arranged for measuring the displacement of a surface in a material handling system such as a crusher, transfer chute or other material handling structure relative to a base reference in a material handling system such as a crusher, transfer chute or other material handling structure essentially comprising

- scanning means in the form of a terrestrial laser scanner 11;
- computer 13 including:

 data acquisition means 15,

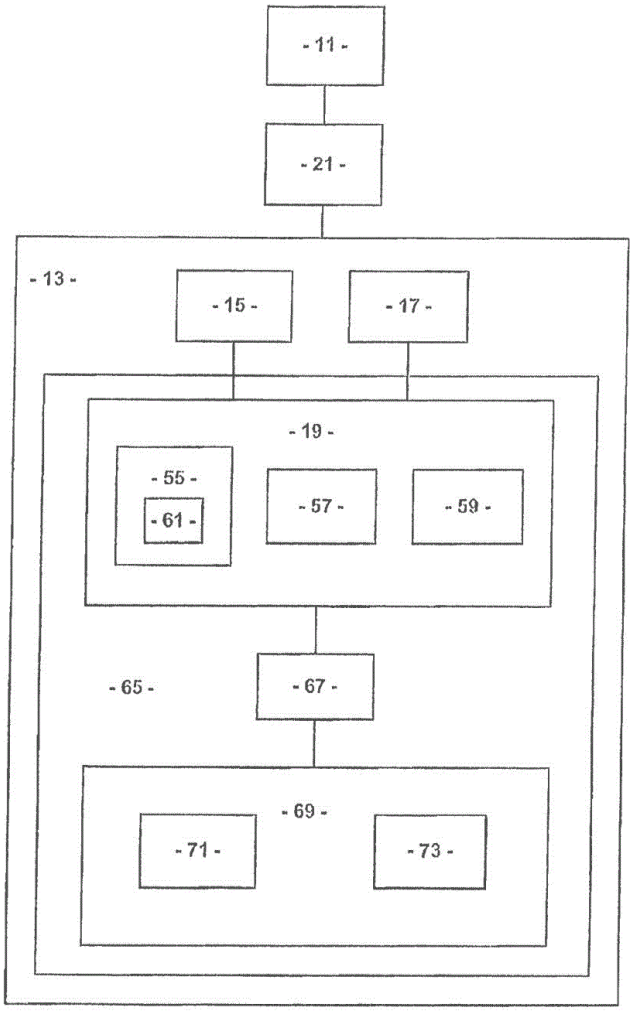
 storage means in the form of a database 17, and

 processing means in the form of processing

software 19; and

- interface 21 to interface the computer 13 to

the scanner 11.



21: 2014/02476. 22: 2014/04/03. 43: 2023/05/11
51: G01N; G01T
71: FEI COMPANY
72: SHEPPARD, ADRIAN PAUL, KINGSTON, ANDREW MAURICE, VARSLOT, TROND KARSTEN
33: AU 31: 2011904072 32: 2011-10-03
54: A COMPUTED TOMOGRAPHY IMAGING PROCESS AND SYSTEM
00: -
A computed tomography imaging process, including: acquiring projection images of an object by detecting radiation that has passed through the object for respective different relative orientations of the object and the radiation; and processing the projection images to generate a tomogram of the object; wherein the radiation passes through the object in the form of a diverging beam, and the different relative orientations of the object and the beam of radiation define two or more complete trajectories of the beam along the object, the complete trajectories being mutually offset to reduce the degradation of spatial resolution in portions of the generated tomogram due to the divergence of the beam through the object.

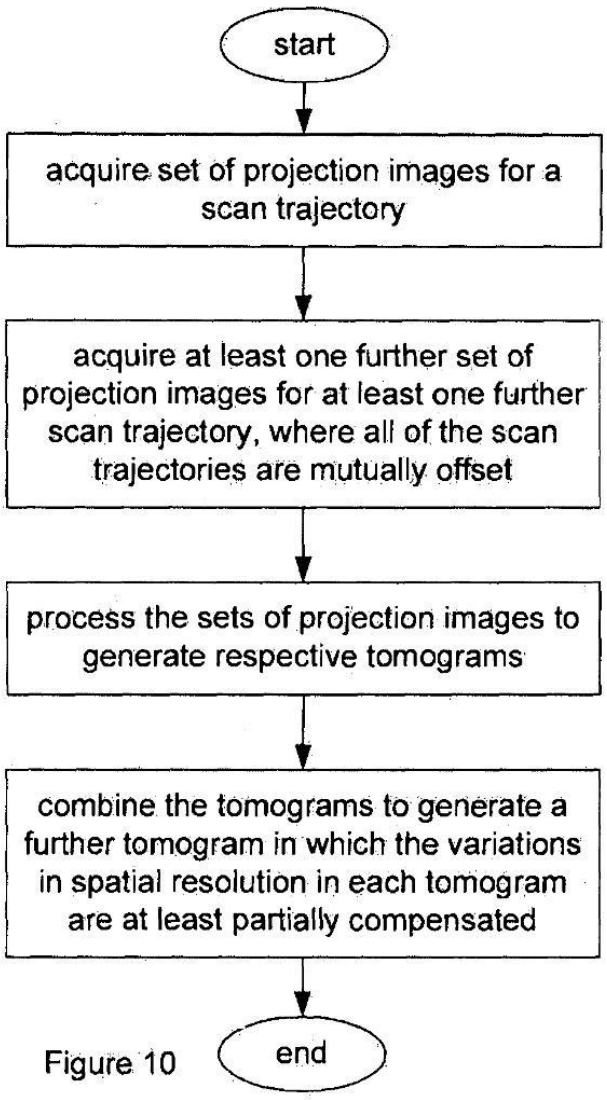


Figure 10

21: 2015/00112. 22: 2015/01/08. 43: 2023/04/11
51: B23K; B23P
71: EX SCINTILLA LIMITED
72: JONES, Jason B., COATES, Peter
33: GB 31: 1212629.8 32: 2012-07-16
33: GB 31: 1307796.1 32: 2013-04-30
54: A MACHINE TOOL
00: -
A machine tool (100; 1106) arranged to deliver an energy source through a processing head (102; 200; 1100; 1150) onto a work-piece (104), wherein; the

machine-tool has a clamping mechanism (202; 1102; 1152) arranged to temporarily receive the processing-head (102; 200; 1100; 1150), or another machining or processing-head, to process a work-piece (104); the processing-head (102; 200; 1100; 1150) comprising one or more guiding mechanisms (212, 218, 220, 222; 520) arranged to direct the energy source (206; 1110) onto a work-piece (104) and a processing-head docking-manifold (201; 1602) arranged to have connected thereto one or more media to be, in use, supplied to the processing-head (102; 200; 1100; 1150) to facilitate processing of the work-piece (104); wherein the processing-head docking-manifold (201; 1602) allows the one or more media to be supplied to the processing-head (102; 200; 1100; 1150) when the processing-head (102; 200; 1100; 1150) is connected to the clamping mechanism (202; 1102; 1152); and wherein the machine-tool (100; 1106) also comprises at least one mechanism arranged to move a supply docking-manifold (200; 600) into and/or out of connection with the processing-head docking-manifold (201; 1602) such that when the two manifolds are connected the or each media is supplied to the processing head (102; 200; 1100; 1150).

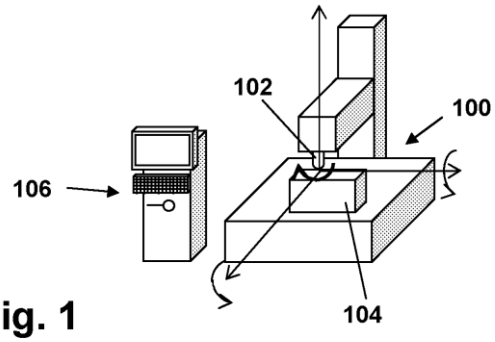
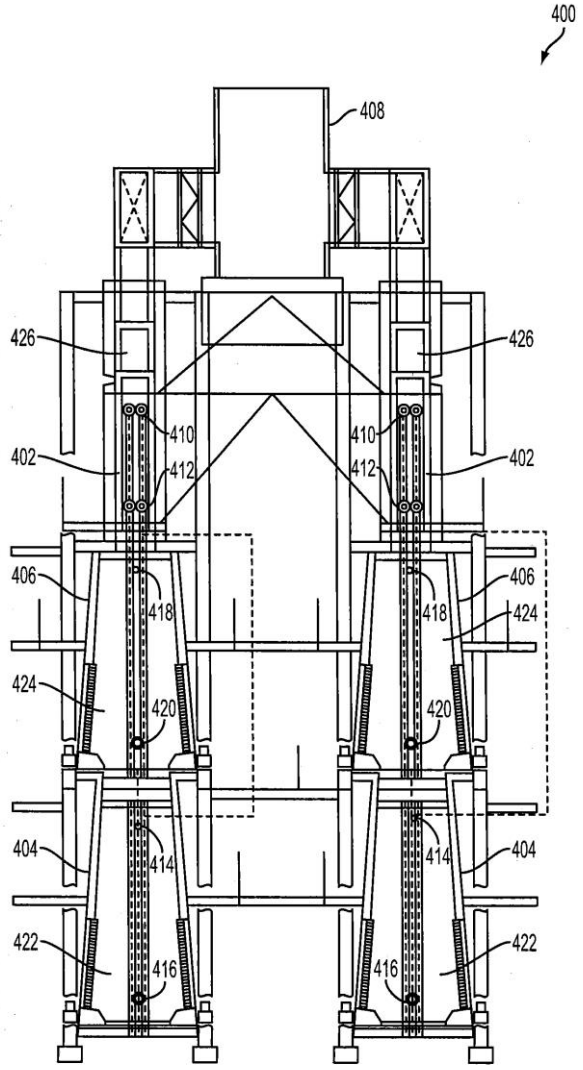


Fig. 1

21: 2015/00506. 22: 2015/01/23. 43: 2023/04/11
51: F27B; F27D
71: FOSTER WHEELER USA CORPORATION
72: MYSZKA, Ronald T., YOUNG, Bruce, T
33: US 31: 61/680,363 32: 2012-08-07
54: METHOD AND SYSTEM FOR IMPROVING SPATIAL EFFICIENCY OF A FURNACE SYSTEM
00: -

A furnace system includes at least one lower radiant section having a first firebox disposed therein and at least one upper radiant section disposed above the at least one lower radiant section. The at least one upper radiant section has a second firebox disposed therein. The furnace system further includes at least one convection section disposed above the at least one upper radiant section and an exhaust corridor defined by the first firebox, the second firebox, and the at least one convection section. Arrangement of the at least one upper radiant section above the at least one lower radiant section reduces an area required for construction of the furnace system.



21: 2015/05950. 22: 2015/08/18. 43: 2023/04/11
51: C12Q
71: LGC GENOMICS LTD
72: JAIN, Nisha, HOLME, John Edmond
33: GB 31: 1304030.8 32: 2013-03-06
54: POLYMERASE CHAIN REACTION DETECTION SYSTEM

00: -
The present invention relates to methods and kits for nucleic acid detection in an assay system.

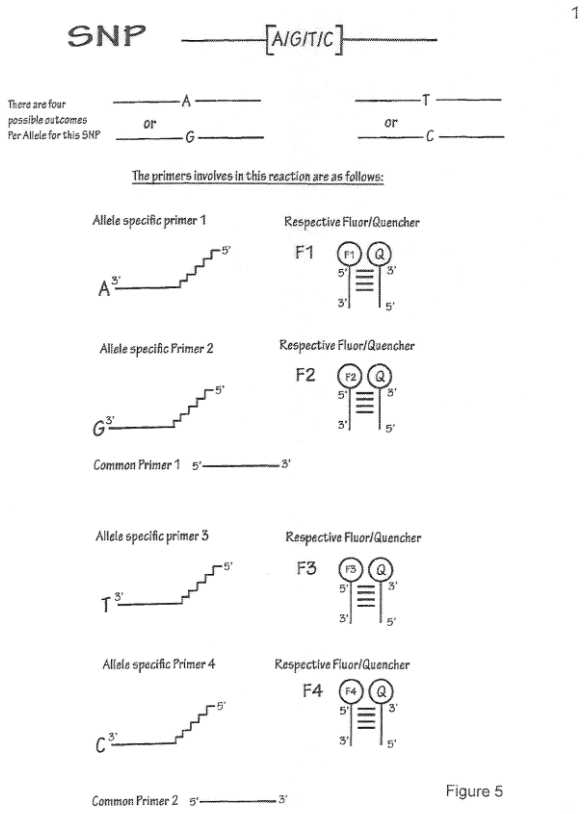
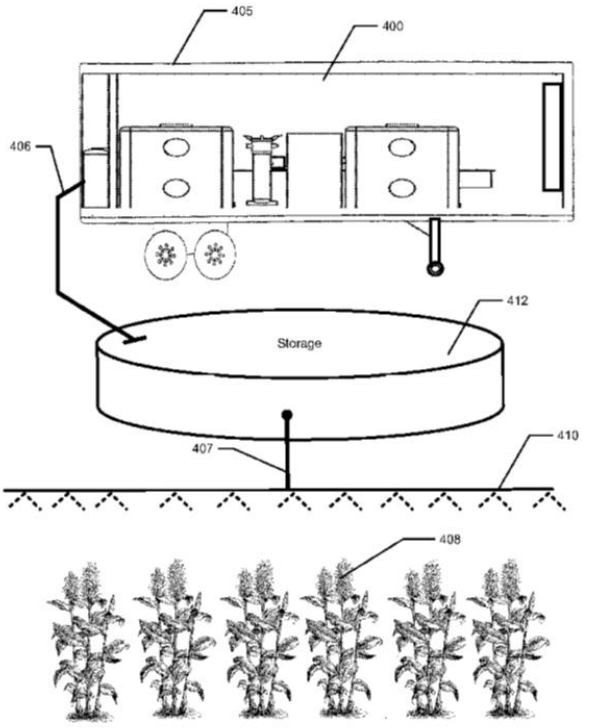
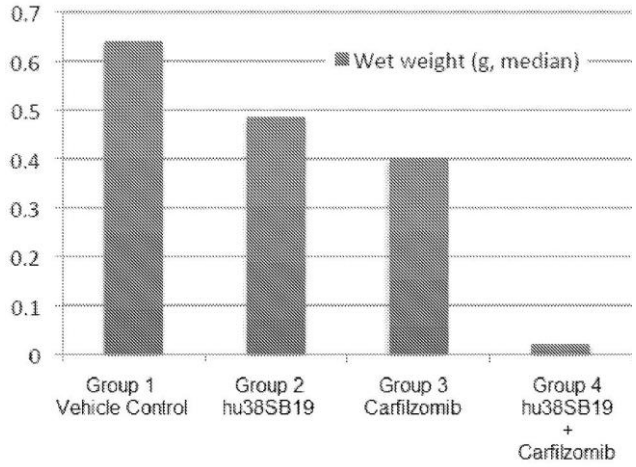


Figure 5

21: 2015/06298. 22: 2015/08/27. 43: 2023/04/13
51: C05B
71: BFP MANAGEMENT, LLC
72: KAISER, James Parker
33: US 31: 61/757,675 32: 2013-01-28
33: US 31: 13/764,654 32: 2013-02-11
54: FERTILIZER COMPOSITION AND METHOD FOR SUSPENDING FERTILIZER IN AN AQUEOUS SOLUTION
00: -
A system and method for providing fertilizer for crop production in an aqueous solution comprising nano-sized fertilizer particles, which are free of any chemical side chain and free any micelle to protect the nano-sized particle from re-agglomeration, suspended therein for improved uptake by the population of the crop. The disclosure relates generally to fertilizer compositions, and more particularly, but not necessarily entirely, to distributing the fertilizer compositions comprising various amounts or concentrations of nitrogen, phosphorous and potassium.



21: 2015/07310. 22: 2015/10/01. 43: 2023/04/24
51: A61K; C07K; A61P
71: SANOFI-AVENTIS U.S. LLC, THE REGENTS OF THE UNIVERSITY OF CALIFORNIA
72: AFTAB BLAKE T, HANN BYRON C, MARTIN THOMAS G, TOMKINSON BLAKE
33: US 31: 61/778 540 32: 2013-03-13
33: US 31: 61/808 381 32: 2013-04-04
54: COMPOSITIONS COMPRISING ANTI-CD38 ANTIBODIES AND CARFILZOMIB
00: -
Disclosed herein are compositions and kits which comprise anti-CD38 antibodies and carfilzomib compounds. Also disclosed are methods for treating cancers, such as multiple myeloma, in subjects with the compositions and kits.

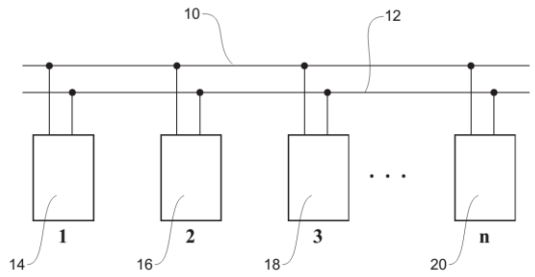


21: 2015/09046. 22: 2015/12/11. 43: 2023/04/11
51: H04L
71: SCHNEIDER ELECTRIC (AUSTRALIA) PTY LIMITED
72: TERRACE, Donald Murray, KAMMERMANN, Daniel
33: AU 31: 2014905076 32: 2014-12-15

54: VARIABLE DATA RATE CONTROL PROTOCOL

00: -

There is disclosed a protocol which can use the existing network bandwidth limitations for transmission during at least the bus contention period after which the remaining portion of the data should be collision-free but allow for a choice of signalling rate within the frame after that bus contention period for the payload data to be transmitted, thus allowing the use of a different data rate in parts of a frame. Additionally there is disclosed advantages to be gained by making best use of available but otherwise not used network bandwidth capability at different parts of the transmission of a frame, such that the protocol enhancement should be compatible with existing installed devices and associated controllable arrangements, so that a system existing in a network can be upgraded, by adding one or more of the devices and associated controllable arrangements which can transmit and receive both the original standard (typically lower) data rate as well as the newer (typically higher) data rate transmissions, at the convenience of the owner of the network without a cost burden associated with replacement or the upgrading of all existing devices or associated controllable arrangements.

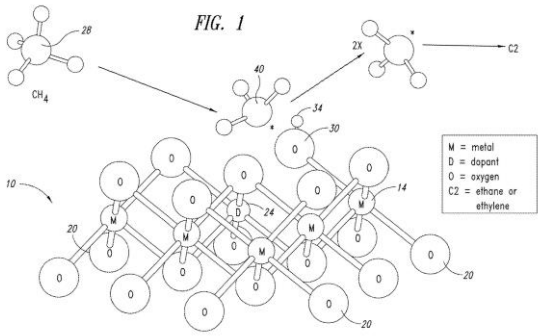


21: 2015/09145. 22: 2015/12/15. 43: 2023/04/20
51: B01J; C07C
71: Lummus Technology LLC
72: SCHAMMEL, Wayne P., RUMPLECKER, Anja, CIZERON, Joel M., SCHER, Erik C., ZURCHER, Fabio R., NYCE, Greg, MCCORMICK, Jarod, ALCID, Marian, GAMORAS, Joel, ROSENBERG, Daniel, RAS, Erik-Jan
33: US 31: 61/794,486 32: 2013-03-15

54: CATALYSTS FOR PETROCHEMICAL CATALYSIS

00: -

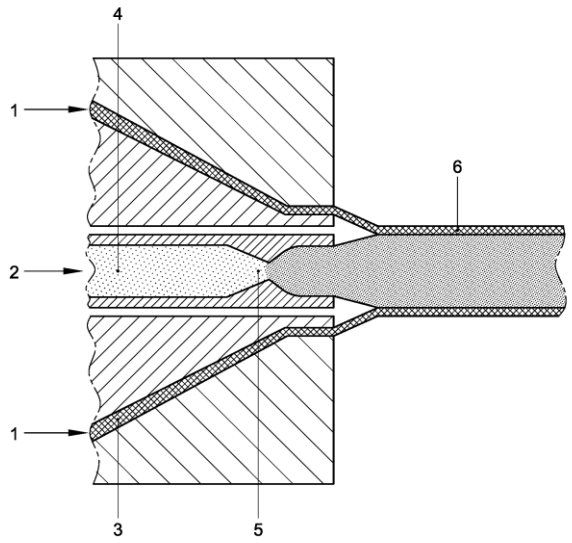
Metal oxide catalysts comprising various dopants are provided. The catalysts are useful as heterogeneous catalysts in a variety of catalytic reactions, for example, the oxidative coupling of methane to C2 hydrocarbons such as ethane and ethylene. Related methods for use and manufacture of the same are also disclosed.



21: 2016/03755. 22: 2016/06/02. 43: 2023/04/24
51: C07K; A61K; A61P
71: GENENTECH, INC.
72: CHEN, XIAOCHENG, DENNIS, MARK S, EBENS, ALLEN J JR, JUNTTILA, TEEMU T, KELLEY, ROBERT F, MATHIEU, MARY A, SUN, LIPING L
33: US 31: 61/917,346 32: 2013-12-17
33: US 31: 62/026,594 32: 2014-07-18
33: US 31: 62/053,582 32: 2014-09-22

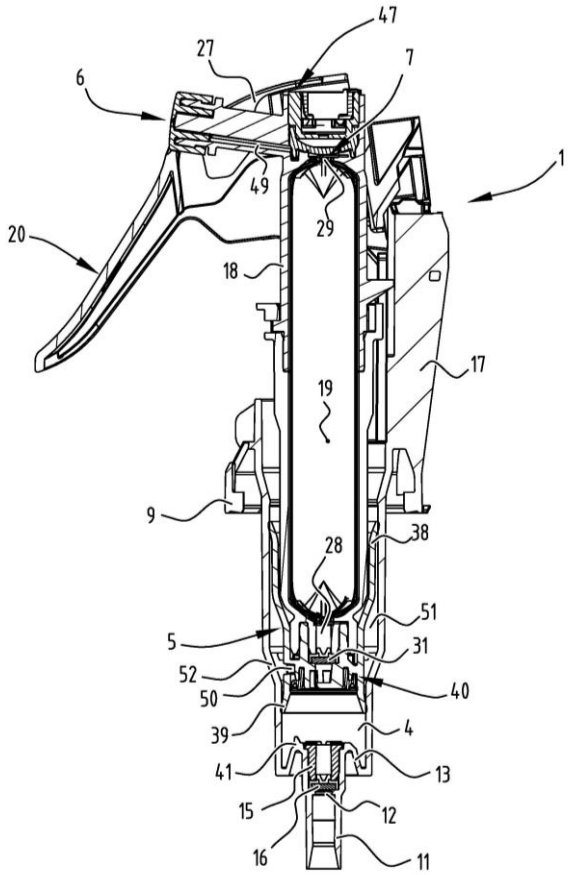
33: US 31: 61/949,950 32: 2014-03-07
33: US 31: 62/091,441 32: 2014-12-12
54: ANTI-CD3 ANTIBODIES AND METHODS OF USE
00: -
The disclosure provides anti-cluster of differentiation 3 (CD3) antibodies and methods of using the same.

21: 2016/04618. 22: 2016/07/06. 43: 2023/04/05
51: A22C
71: DEVRO (SCOTLAND) LIMITED
72: VISSER, Petrus Rimke
33: NL 31: 2012274 32: 2014-02-14
54: IMPROVED SAUSAGE CASINGS
00: -
The invention is directed to a process for preparing a food casing, in particular a sausage casing. The sausages thus produced can be dried more efficiently because of the higher initial solids content of the casing, after they leave the extruder.



21: 2016/04864. 22: 2016/07/14. 43: 2023/05/19
51: A01N
71: MONSANTO TECHNOLOGY LLC
72: BECHER, David Z.
33: US 31: 61/932,199 32: 2014-01-27
54: AQUEOUS HERBICIDAL CONCENTRATES
00: -
Herbicidal concentrate compositions containing a combination of herbicides are provided. In particular, the present invention relates to aqueous herbicidal concentrate compositions containing a particulate encapsulated acetanilide herbicide and a protoporphyrinogen oxidase inhibitor (PPO inhibitor).

21: 2016/05141. 22: 2016/07/22. 43: 2023/04/11
51: B05B
71: Dispensing Technologies B.V.
72: MAAS, Wilhelmus Johannes Joseph, NERVO, Paulo
33: US 31: 61/945,092 32: 2014-02-26
54: LIQUID DISPENSING DEVICE HAVING A PRE-COMPRESSION OUTLET VALVE
00: -
The invention relates to a liquid dispensing device comprising: a piston chamber; a piston that is moveable within the piston chamber to pressurise a liquid to be dispensed; a nozzle with a defined throughput for dispensing the liquid; an outlet valve having a defined minimum opening pressure arranged between the piston chamber and the nozzle; and a prime valve for priming the device. The prime valve may be mechanically operable and may be arranged on or in the piston. The liquid dispensing device may further comprise an operating member, which may protrude from an end wall of the piston chamber and which may be arranged to move the prime valve from a closed position to an open position when the moveable piston is near or at an end of its stroke. The outlet valve may be configured to minimize a difference between its opening pressure and its closing pressure. It may comprise a dome and the dome may have a stiffness which varies in radial direction.



21: 2016/08206. 22: 2016/11/28. 43: 2023/04/11
51: A24F; A61M
71: Nicoventures Trading Limited
72: DICKENS, Colin
33: GB 31: 1410171.1 32: 2014-06-09
54: ELECTRONIC VAPOUR PROVISION SYSTEM
00: -
An electronic vapour provision system includes a vaporiser for vaporising liquid for inhalation by a user of the electronic vapour provision system; a power supply comprising a cell or battery for supplying power to the vaporiser; a sensor for measuring the rate of airflow through the electronic vapour provision system as a result of the inhalation by the user; and a control unit for controlling the power supplied to the vaporiser based on a cumulative airflow for this inhalation by the user, wherein the cumulative airflow is determined based on the measurements of airflow rate by the sensor. Such a system allows the user control over the amount of vapourised liquid obtained in a given inhalation based on the cumulative airflow for the given inhalation.

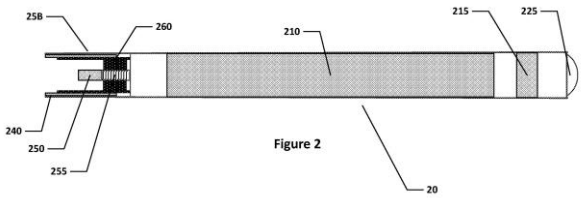
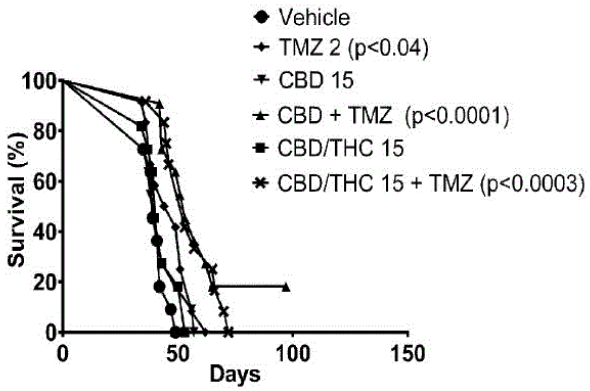


Figure 2

21: 2016/08209. 22: 2016/11/28. 43: 2023/04/12
51: A61K
71: Radius Pharmaceuticals, Inc.
72: YAN, Ningxin, LI, Huaguang, VANGARA, Kiran Kumar, GOSKONDA, Venkat R., NGUYEN, Hung Q.
33: US 31: 62/004,495 32: 2014-05-29
54: STABLE CANNABINOID FORMULATIONS
00: -
The present invention is generally directed to substantially pure cannabidiol, stable cannabinoid pharmaceutical formulations, and methods of their use. In one aspect, the present invention is directed to stable pharmaceutical formulations for oral administration comprising from about 0.1 to about 50 % of a cannabinoid, from about 0.1 to about 40 % of a polyethylene glycol, from about 0.1 to about 50 % of propylene glycol, and from about 0.1 to about 20 % of water, wherein the formulation does not contain alcohol and the formulation has a pH of from about 5 to about 8.

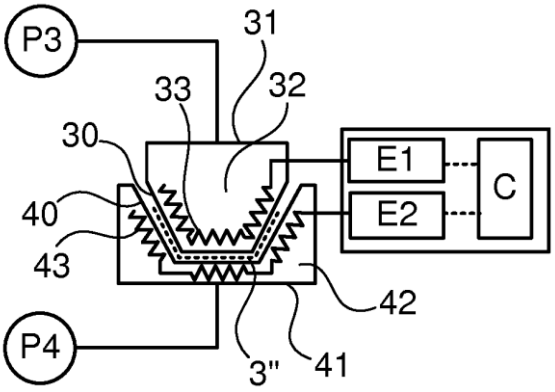


21: 2016/08303. 22: 2016/12/01. 43: 2023/04/24
51: C12M; C12N; C12P
71: Amgen Inc.
72: GOUDAR, Chetan, COLE, Sean, SABO, Nicole, LIN, Henry, LULL, Jonathan, THARMALINGAM, Tharmala
33: US 31: 62/007,588 32: 2014-06-04
54: METHODS FOR HARVESTING MAMMALIAN CELL CULTURES
00: -

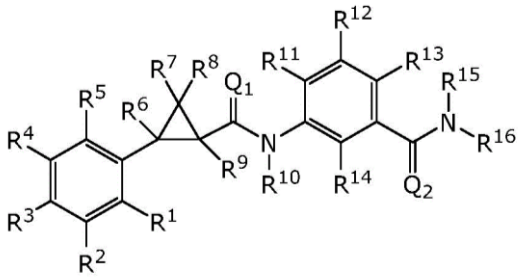
The invention provides methods and materials for culturing mammalian cells and harvesting recombinant protein.

21: 2016/08847. 22: 2016/12/21. 43: 2023/05/08
51: A61K; C07F; A61P
71: VENATORX PHARMACEUTICALS, INC.
72: BURNS, Christopher, J., DAIGLE, Denis, LIU, Bin, JACKSON, Randy, W., HAMRICK, Jodie, MCGARRY, Daniel, PEVEAR, Daniel C., TROUT, Robert E. Lee
33: US 31: 62/010,969 32: 2014-06-11
33: US 31: 62/010,940 32: 2014-06-11
33: US 31: 62/010,968 32: 2014-06-11
33: US 31: 62/118,227 32: 2015-02-19
54: BETA-LACTAMASE INHIBITORS
00: -
Described herein are compounds and compositions that modulate the activity of beta-lactamases. In some embodiments, the compounds described herein inhibit beta-lactamase. In certain embodiments, the compounds described herein are useful in the treatment of bacterial infections.

21: 2017/04215. 22: 2017/06/21. 43: 2023/04/05
51: D21J
71: CELWISE AB
72: ANDERSSON, John, VOGT, Udo, PIERCE, David A.
54: TOOL OR TOOL PART, SYSTEM INCLUDING SUCH A TOOL OR TOOL PART, METHOD OF PRODUCING SUCH A TOOL OR TOOL PART AND METHOD OF MOLDING A PRODUCT FROM A PULP SLURRY
00: -
The present document discloses a tool or tool part (10, 20, 30, 40) for use in a process of molding a product from a pulp slurry. The tool or tool part (10, 20, 30, 40) comprises a self-supporting tool wall portion having a product face (Fp), for contacting the product, and a back face (Fb) on the other side of the wall relative to the product face (Fp). The tool wall portion presenting pores, which are provided by a plurality of channels (102) extending through the tool wall portion, from the product face (Fp) to the back face (Fb). The channels (102) are straight or curved with no more than one point of inflection.

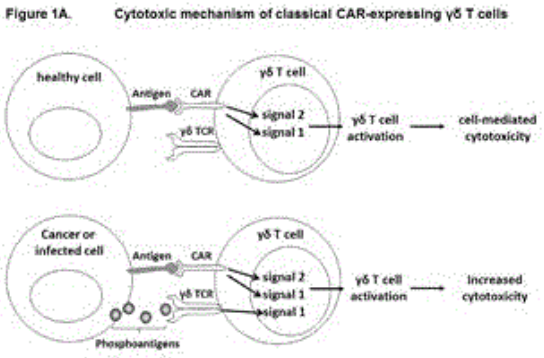


21: 2017/06382. 22: 2017/09/21. 43: 2023/04/11
51: A01N; C07C; C07D
71: Corteva Agriscience LLC
72: ECKELBARGER, Joseph D., KNUEPPEL, Daniel I., HEEMSTRA, Ronald J., ROSS, Ronald, DEKORVER, Kyle A., GARY, Kaitlyn, VEDNOR, Peter, MARTIN, Timothy P., HUNTER, Ricky, DEMETER, David A., TRULLINGER, Tony K., BAUM, Erich W., BENKO, Zoltan L., CHOY, Nakyen, CROUSE, Gary D., DAEUBLE, John F., LI, Fangzheng, NISSEN, Jeffrey, RIENER, Michelle, SPARKS, Thomas C., WESSELS, Frank J., YAP, Maurice C.
33: US 31: 62/148,824 32: 2015-04-17
33: US 31: 62/148,809 32: 2015-04-17
33: US 31: 62/148,830 32: 2015-04-17
33: US 31: 62/148,837 32: 2015-04-17
33: US 31: 62/148,814 32: 2015-04-17
33: US 31: 62/148,818 32: 2015-04-17
54: MOLECULES HAVING PESTICIDAL UTILITY, AND INTERMEDIATES, COMPOSITION, AND PROCESSES, RELATED THERETO
00: -
This disclosure relates to the field of molecules having pesticidal utility against pests in Phyla Arthropoda, Mollusca, and Nematoda, processes to produce such molecules, intermediates used in such processes, pesticidal compositions containing such molecules, and processes of using such pesticidal compositions against such pests. These pesticidal compositions may be used, for example, as acaricides, insecticides, miticides, molluscicides, and nematicides. This document discloses molecules having the following formula ("Formula One").

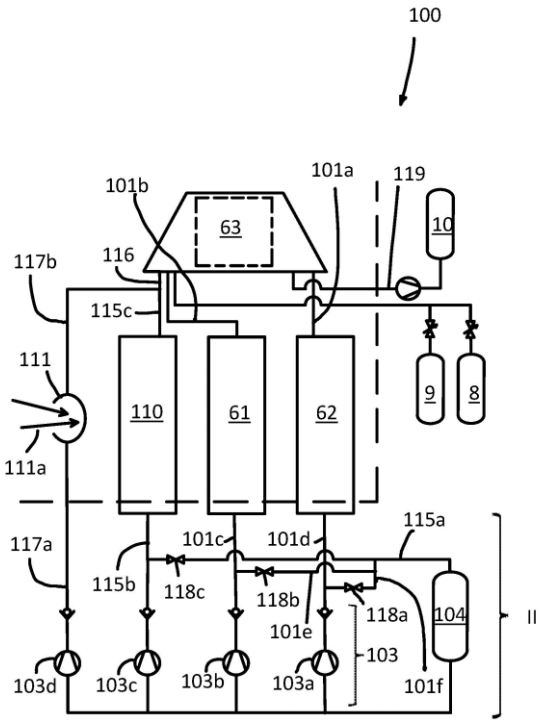


Formula One

21: 2017/06922. 22: 2017/10/12. 43: 2023/04/21
51: C12N; A61K; C07K
71: TC BIOPHARM LTD
72: LEEK, MICHAEL DAVID, HANNIGAN, ADELE, PATAKAS, AGAPITOS, PARUZINA, DARIA
33: GB 31: 1506423.1 32: 2015-04-15
33: GB 31: PCT/GB2015/051985 32: 2015-07-08
54: MODIFIED GAMMA DELTA CELLS AND USES THEREOF
00: -
The present invention provides composition and methods for the treatment of cancer or infectious diseases in a human. The invention includes the generation and administration of gamma delta T cells that express chimeric antigen receptors (CARs) comprising an antigen binding domain, a hinge domain, a transmembrane domain, a costimulatory signalling domain with the inclusion or not of a CD3 zeta signalling domain. Expression of CAR sequence omitting the CD3 zeta signalling domain in gamma delta T cells, provides for a CAR-T therapy in vivo, which will effect cytolysis only on target cells providing ligands for activation of the gamma delta T cell receptor (TCR).

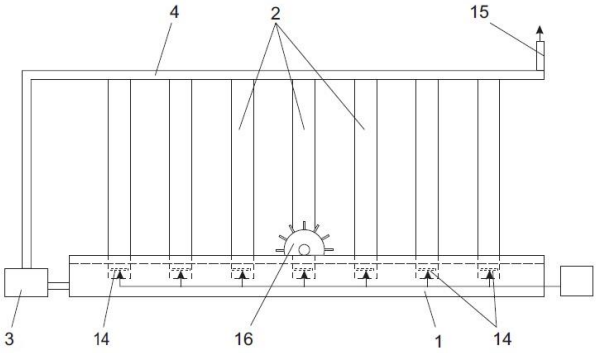


21: 2017/07013. 22: 2017/10/17. 43: 2023/04/12
51: F24J; F28D
71: Synhelion SA
72: PEDRETTI-RODI, Andrea
33: CH 31: 00487/15 32: 2015-04-08
54: PROCESSING SYSTEM FOR RECOVERING HEAT, AND A METHOD FOR OPERATING SAME
00: -
The invention relates to a processing system comprising a processing unit (1, 60, 100) that can be operated between an upper (To) and a lower (Tu) temperature. A first heat accumulator (3, 61) and a second heat accumulator (4, 62) are operationally interconnected by means of a line arrangement (L) for a heat-transporting medium, said processing unit (1, 60, 100) being arranged in a first section (I) of said line arrangement (L) between the first (3, 61) and the second heat accumulator (4, 62).

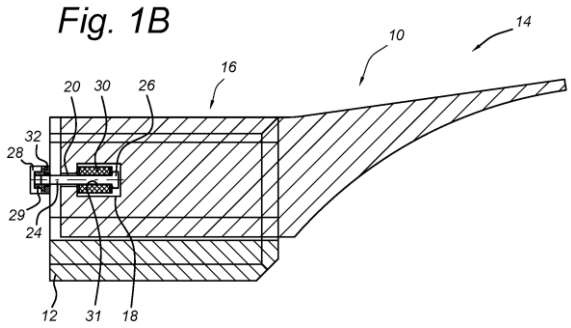


21: 2018/00592. 22: 2018/01/29. 43: 2023/04/05
51: C12M
71: NELSON MANDELA UNIVERSITY
72: ZEELIE, Bernard, BARNARD, JOHN PIETER
33: GB 31: 1511545.4 32: 2015-07-01
54: MICROALGAE PRODUCTION PROCESS AND EQUIPMENT
00: -
Microalgae cultivation equipment for the cultivation of microalgae is provided in which a raceway is modified so as to contain multiple generally upright

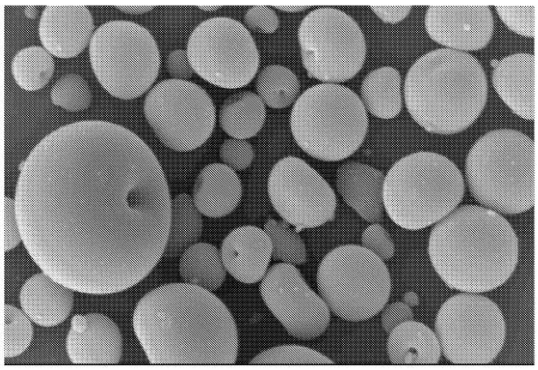
photobioreactor columns spaced apart along its length so as to increase the total surface area of liquid growth medium directly exposed to light and to improve the transfer of CO2 from the gas-phase to the liquid-phase by providing adequate height inside the vertical photobioreactor columns. The lowermost ends of the photobioreactor columns are immersed inside the liquid growth medium in the raceway component and are fed with liquid growth medium by a circulation promoting facility circulating the liquid growth medium from the raceway through the photobioreactor columns to become discharged back into the raceway. Gas inlets provide CO2 containing gas bubbles passing upwards in each of the photobioreactor columns. One or more paddle wheels or jet pumps induce a flow of liquid growth medium within the raceway.



21: 2018/02650. 22: 2018/04/20. 43: 2023/04/05
51: E02F; E21C
71: IHC HOLLAND IE B.V.
72: CLEOPHAS, Eugenius Petrus Elisabeth Marie, GRAAFF, Peter Cornelis, BREKEN, Roelof
33: NL 31: 2015672 32: 2015-10-28
54: TOOTH RETAINING AND LOCKING SYSTEM
00: -
A tooth with a retaining system for retaining the tooth in a receiving portion of an adapter in a cutting system comprises a first holding system to releasably retain the tooth to the adapter; and a second holding system to tension and secure the tooth with respect to the adapter.



21: 2018/03870. 22: 2018/06/11. 43: 2023/04/24
51: A61L; B01J; C09D
71: Venator Materials UK Limited
72: ROBB, John, WAN, Ann Sarah, LOWRY, Karl, WATERS, Darren J., EDWARDS, John L.
33: GB 31: 1520463.9 32: 2015-11-20
54: COATINGS
00: -
The invention provides a coating composition suitable for use in forming a coating that can reduce the concentration of pollutant gases in the environment, the coating composition comprising polymeric material together with mesoporous titania particles. The particles have a continuous exterior convex surface and a particle diameter of greater than or equal to 1µm but less than or equal to 50µm, and a BET specific surface area of from 30m2/g to 350m2/g, and a modal pore diameter of greater than or equal to 5nm but less than or equal to 50nm, and a pore size distribution such that 85% or more of the total pore volume is associated with pores with a diameter of 10 microns or less. The coating composition comprises from 0.01% to 10% by volume of said particles, relative to the total volume of the coating composition and comprises from 5% to 99.99% by volume of polymeric material, relative to the total volume of the coating composition.A coating formed from said composition can be used for the removal of pollutant gases, especially in conditions where the coating is exposed to UV radiation from sunlight.



21: 2018/05334. 22: 2018/08/10. 43: 2023/04/12
51: B01D
71: VAN NIEKERK, Erasmus
72: VAN NIEKERK, Erasmus
33: ZA 31: 2016/00429 32: 2016-01-20
54: PURIFICATION OF POLLUTED AIR USING MICRO-ORGANISM-CONTAINING PARTICULATE MEDIA
00: -
A process for purifying polluted air, includes passing polluted air through a fluidized bed of micro-organism-containing primary particulate media so that, as the polluted air passes through the fluidized bed, organic pollutants therein are removed by the micro-organisms. Partially purified air containing a lower level of the organic pollutants than the polluted air that enters the fluidized bed, emerges from the fluidized bed. The partially purified air is passed through a static bed of secondary particulate media thereby to remove residual organic pollutants from the partially purified air. Purified air is thus produced.

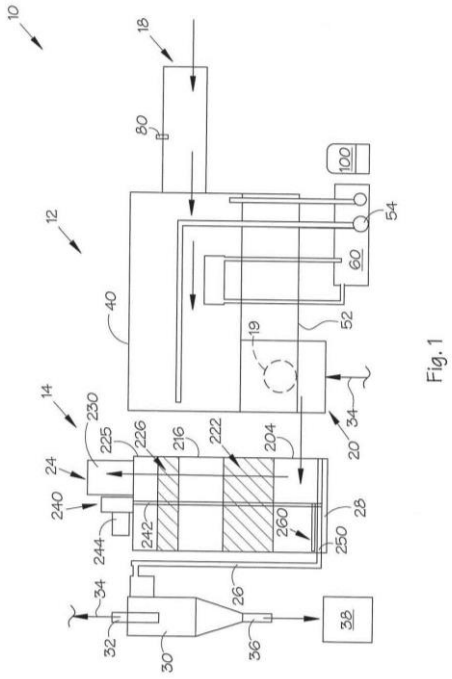
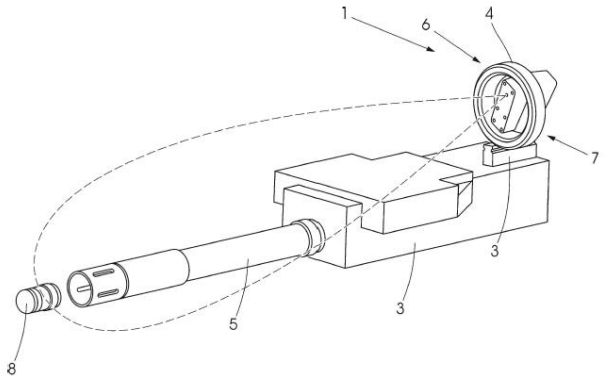


Fig. 1

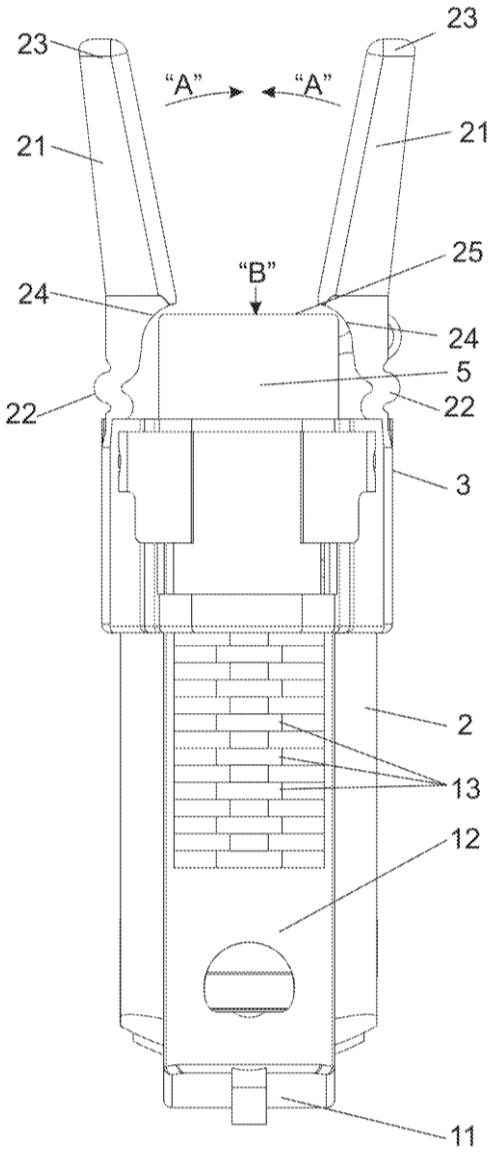
21: 2018/06293. 22: 2018/09/19. 43: 2023/05/11
51: C07K
71: OSE IMMUNOTHERAPEUTICS
72: POIRIER, Nicolas, MARY, Caroline, VANHOVE, Bernard, GAUTTIER, Vanessa, THEPENIER, Virginie, PENGAM, Sabrina
33: US 31: 62/322,707 32: 2016-04-14
33: EP 31: 17305182.2 32: 2017-02-17
54: NEW ANTI-SIRPA ANTIBODIES AND THEIR THERAPEUTIC APPLICATIONS
00: -
The present invention provides new anti-SIRPa antibodies able to specifically antagonize the interaction between SIRPa and CD47, without affecting the interaction between SIRPg and CD47, and their uses.

21: 2018/06883. 22: 2018/10/16. 43: 2023/04/11
51: F42C
71: BUDRICKS, Jacob Stefanus
72: BUDRICKS, Jacob Stefanus
33: ZA 31: 2017/07429 32: 2017-11-02
54: TIME FUZE PROGRAMMING SYNCHRONIZATION SYSTEM AND METHOD
00: -
Disclosed is a time fuze programming synchronization system for a weapon system, including a base securable to the weapon system, a Doppler module supported by the base, and an associated process controller; the base supporting

the Doppler module operatively for the Doppler module to be focussed at the exit of a barrel of the weapon system; the Doppler module including a radio frequency transmitter and a radio frequency receiver, with the process controller being configured to detect Doppler signals generated by radio signals transmitted from the transmitter which are reflected back to the receiver from projectiles exiting the barrel, operatively indicating firing of the weapon system to the processor; with the process controller configured, in response to each Doppler signal detected by the Doppler module, to generate and transmit a fuze programming trigger signal to a fuze programmer of the weapon system.



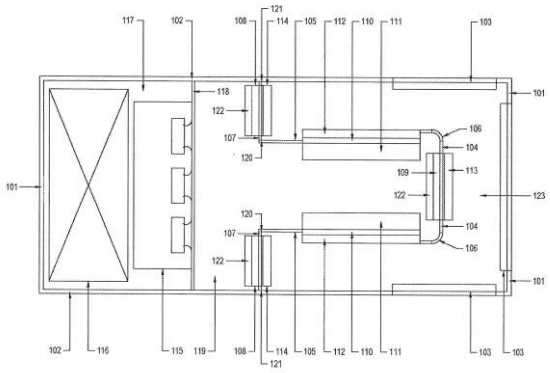
21: 2018/06918. 22: 2018/10/17. 43: 2023/04/05
51: A61M; B05B; B65D
71: UNIVERSITY OF CAPE TOWN
72: SIVARASU, Sudesh, BEUKES, Giancarlo Lanfranci, VOORNEVELD, Jason Dirk, LEVIN, Michael
33: GB 31: 1604709.4 32: 2016-03-21
54: AN ASSISTIVE DEVICE FOR AN INHALER
00: -
An assistive device for a metered dose inhaler decreases the force required to operate the inhaler. The assistive device has a body with a passage for receiving a replaceable conventional metered dose inhaler assembly that has a canister and a transverse mouthpiece with an axis of the canister aligning approximately with that of the passage. At least two symmetrically arranged levers extend in a direction away from the body and parallel to an axis thereof. A proximal end of each lever is attached to the body such that the free opposite ends of the levers may be moved towards and away from each other. An inwardly directed cam surface on each of the levers engages a closed end of a canister in use to move the canister longitudinally to cause a dose of medicament to be dispensed from the canister. An optional dose counter may form part of the device.



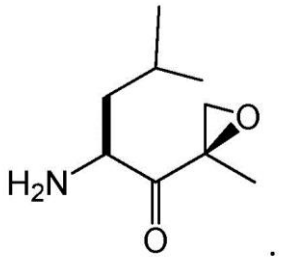
21: 2018/07477. 22: 2018/11/07. 43: 2023/04/25
51: A61K
71: Zoetis Services LLC
72: DE FREITAS, Carla Maria Batista, DOS SANTOS, Maria Carolina Ferreira, DOMINOWSKI, Paul Joseph, GEERLIGS, Harmen Jacob
33: US 31: 62/344,598 32: 2016-06-02
54: VACCINE AGAINST INFECTIOUS BRONCHITIS
00: -

Poultry vaccines against infectious bronchitis and Turkey Rhinotracheitis are provided. The vaccines are adjuvanted with oil emulsion containing an immunostimulatory oligonucleotide. The methods of using the vaccines are also provided.

21: 2019/00301. 22: 2019/01/16. 43: 2023/04/18
51: F24F
71: Tyco Fire & Security GmbH
72: LECKELT, Lindsey, VETSCH, Ryan, BOUDREAU, Benoit
33: US 31: 62/376,963 32: 2016-08-19
54: U-SHAPED AIR TREATMENT ARRANGEMENT IN AN AIR HANDLING UNIT
00: -
The present invention relates in general to a compact air handling system to supply conditioned air to a space including but not limited to, building rooms and data center server space. The present invention relates to the design and layout of the system for air handling unit system applications.

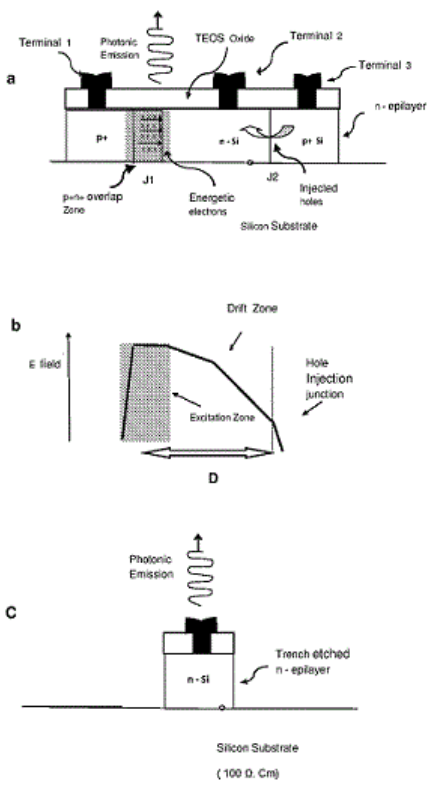


21: 2019/00717. 22: 2019/02/04. 43: 2023/04/05
51: C01G; C07D
71: Amgen Inc.
72: BEAVER, Matthew, CUI, Sheng, SHI, Xianqing
33: US 31: 62/371,686 32: 2016-08-05
54: SYNTHESIS OF (S)-2-AMINO-4-METHYL-1-((R)-2-METHYLOXIRANE-2-YL)-PENTAN-1-ONE AND PHARMACEUTICALLY ACCEPTABLE SALTS THEREOF
00: -
The present invention provides new methods for preparing compound (5), and pharmaceutically acceptable salts thereof, of structure. Compound (5), or a pharmaceutically acceptable salt thereof, is an important intermediate in the synthesis of carfilzomib. The invention further provides methods of making a useful manganese catalyst that may be used in the epoxidation step of the present invention.

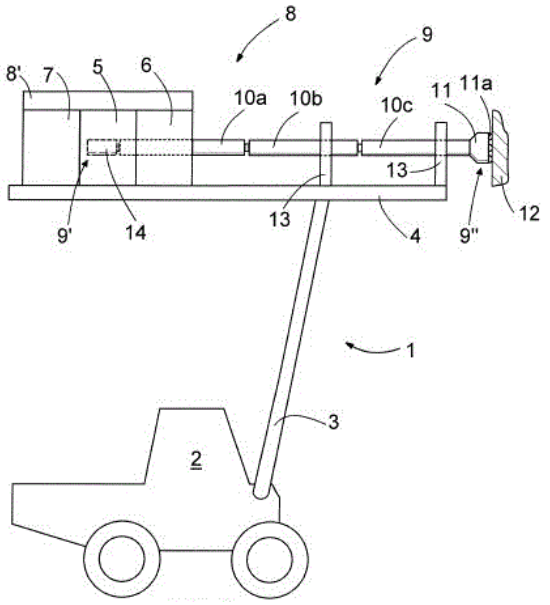


5

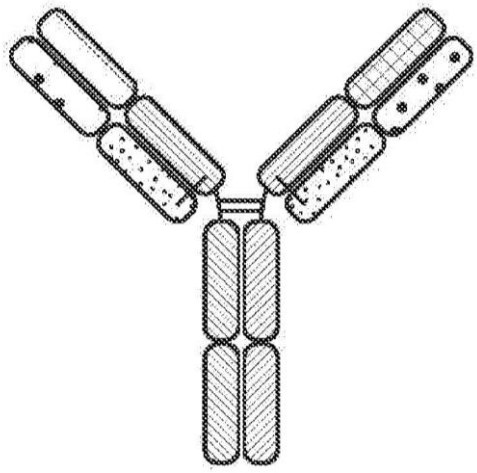
21: 2019/01971. 22: 2019/03/29. 43: 2023/04/24
51: H01L
71: UNIVERSITY OF SOUTH AFRICA
72: SNYMAN, Lukas, Willem
33: ZA 31: 2016/06148 32: 2016-09-06
54: 650 NM SILICON AVALANCHE LIGHT EMITTING DIODE
00: -
The invention provides a silicon pn based device with different dopant and impurity implanted concentrations strategically placed in the device, the pn junction being reverse biased, such that the 650nm optical emission is stimulated and enhanced. The invention extends to a silicon avalanche light emitting device comprising a first junction and a second junction, said first junction including a reverse biased excitation zone for injecting high energy carriers in a first direction and said second junction being forward biased so as to inject high density low energy carriers opposite to said first direction, wherein an interaction zone is formed between said first junction and said second junction so as to enhance emission of 650nm photons through interactions between said high energy carriers and said low energy carriers.



21: 2019/04687. 22: 2019/07/17. 43: 2023/04/21
51: B25D; E21B
71: Sandvik Mining and Construction Oy
72: HÄMÄLÄINEN, Pasi, SETÄLÄ, Timo, PURSIMO, Juha
33: EP(FI) 31: 18192037.2 32: 2018-08-31
54: ROCK DRILLING DEVICE
00: -
A method of monitoring a rock drilling and a rock drilling device. The method comprises generating a stress wave which propagates in a tool (9) of the rock drill-ing device, measuring the stress wave propagating in the tool and measuring a drilling parameter indicating a drilling penetration rate (DPR). The method further comprises identifying, from the measured stress wave propagating in the tool, at least one of a compressive stress wave and a tensile stress wave of a reflected stress wave reflected from a rock (12) to be drilled back to the tool, determining at least one property of the at least one of the compressive stress wave and the tensile stress wave of the reflected stress wave, detecting, on the basis of a change in the at least one property of the at least one of the compressive stress wave and the tensile stress wave, that the tool is ap-proaching the cavity (16).

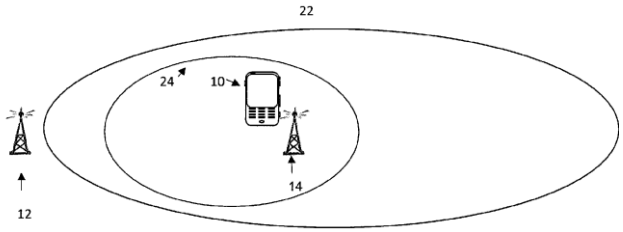


21: 2019/05273. 22: 2019/08/08. 43: 2023/04/25
51: A61K; C07K
71: Dragonfly Therapeutics, Inc.
72: CHANG, Gregory P., CHEUNG, Ann F., HANEY, William, LUNDE, Bradley M., PRINZ, Bianka
33: US 31: 62/457,785 32: 2017-02-10
54: PROTEINS BINDING PSMA, NKG2D AND CD16
00: -
Multi-specific binding proteins that bind PSMA, the NKG2D receptor, and CD 16 are described, as well as pharmaceutical compositions and therapeutic methods useful for the treatment of cancer.

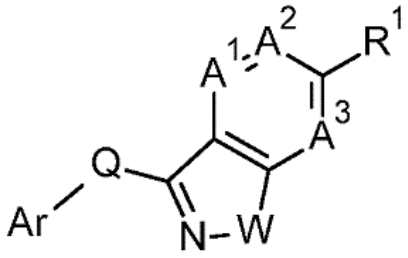


21: 2019/06911. 22: 2019/10/21. 43: 2023/04/11
51: H04W

71: NOKIA TECHNOLOGIES OY
72: DU, Lei, SEBIRE, Benoist, Pierre, WU, Chunli, DECARREAU, Guillaume
54: HANDLING OF PDCP DUPLICATION AND DATA RECOVERY IN NEW RADIO ACCESS TECHNOLOGY
00: -
In accordance with the example embodiments of the invention there is at least a method and apparatus to perform determining, by a device of a communication network, that at least one PDCP PDU of a PDCP sublayer is duplicated for transmission over at least one logical channel; signaling to an RLC sublayer an indication of the at least one PDCP PDU that is duplicated; and based on the signaling, controlling duplication of the at least one PDCP PDU for transmission over the at least one logical channel. Further, there is at least a method and apparatus to perform receiving, at a device of a communication network, an indication through a received signaling indicating that at least one PDCP PDU of a PDCP sublayer is to be duplicated; determining to duplicate the at least one PDCP PDU; duplicating the at least one PDCP PDU based on the determination; and transmitting the duplicated PDCP PDU over at least one logical channel.

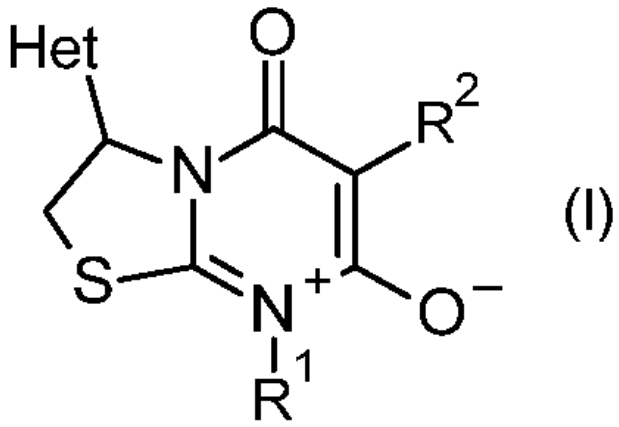


21: 2019/06984. 22: 2019/10/23. 43: 2022/04/20
51: C07D A01N
71: BASF SE
72: NARINE, Arun, ADISECHAN, Ashokkumar, VYAS, Devendra, DATTA, Gopal, Krishna, VALLINAYAGAM, Ramakrishnan, CHAUDHURI, Rupsha, SAMBASIVAN, Sunderraman
33: EP 31: 17163239.1 32: 2017-03-28
54: PESTICIDAL COMPOUNDS
00: -
The present invention relates to the compounds of formula (I), and the N-oxides, stereoisomers, tautomers and agriculturally or veterinarily acceptable salts thereof wherein the variables are defined according to the description, (I). The compounds of formula (I), as well as the N-oxides, stereoisomers, tautomers and agriculturally or veterinarily acceptable salts thereof, are useful for combating or controlling invertebrate pests, in particular arthropod pests and nematodes. The invention also relates to a method for controlling invertebrate pests by using these compounds and to plant propagation material and to an agricultural and a veterinary composition comprising said compounds.



(I)

21: 2019/07014. 22: 2019/10/24. 43: 2023/04/20
51: C07D A01N
71: BASF SE
72: DICKHAUT, Joachim, ADISECHAN, Ashokkumar, DATTA, Gopal, Krishna, KUZMINA, Olesya, LANGEWALD, Jürgen
33: EP 31: 17164175.6 32: 2017-03-31
33: EP 31: 17168354.3 32: 2017-04-27
33: EP 31: 17169294.0 32: 2017-05-03
33: EP 31: 17188677.3 32: 2017-08-31
33: EP 31: 18152000.8 32: 2018-01-17
54: PYRIMIDINIUM COMPOUNDS AND THEIR MIXTURES FOR COMBATING ANIMAL PESTS
00: -
The present invention relates to pyrimidinium compounds of formula (I), to the stereoisomers, salts, tautomers and N-oxides thereof, their mixtures and to compositions comprising such compounds or mixtures. The invention also relates to methods and uses of these pyrimidinium compounds and of compositions thereof, for combating and controlling animal pests. Furthermore, the invention relates also to pesticidal methods of applying such substituted pyrimidinium compounds. The pyrimidinium compounds of the present invention are defined by the following general formula (I), wherein R1, R2 and Het are defined as in the description.



21: 2019/07277. 22: 2019/11/01. 43: 2023/04/12
51: C11D; C12N
71: Novozymes A/S
72: SEGURA, Dorotea Raventos, SALOMON, Jesper, JENSEN, Johanne M., VEJBORG, Rebecca Munk
33: EP(DK) 31: 17165340.5 32: 2017-04-06
54: DETERGENT COMPOSITIONS AND USES THEREOF
00: -
The present invention relates to compositions such as cleaning compositions comprising a mix of enzymes. The invention further relates, use of compositions comprising such enzymes in cleaning processes.

21: 2019/07298. 22: 2019/11/04. 43: 2023/04/05
51: G06N; G16B
71: ILLUMINA, INC.
72: ZHANG, Shile, WANG, Mengchi, WISE, Aaron, KANG, Han, ONUCHIC, Vitor Ferreira, KRUGLYAK, Kristina
33: US 31: 62/593,802 32: 2017-12-01
54: SYSTEMS AND METHODS FOR ASSESSING DRUG EFFICACY
00: -
Provided is a computer-implemented method, including inputting to a trained machine learning classifier genomic information of a non-training subject that includes features from a tumor sample, wherein the trained machine learning classifier trained on features of tumor samples obtained from training subjects and their a responsiveness to checkpoint inhibition treatment and the machine-learning classifier is trained to predict responsiveness to the treatment, and generating a checkpoint inhibition responsiveness classification predictive of the subject's responding to the checkpoint inhibition with the trained machine-learning classifier, and reporting the checkpoint inhibition responsiveness classification using a graphical user interface. Also provided are a computer system for performing the method and a machine learning classifier trained by the method.

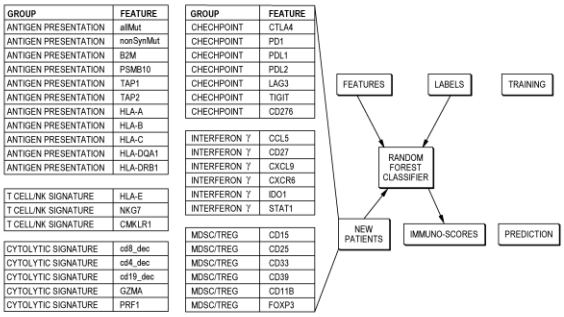
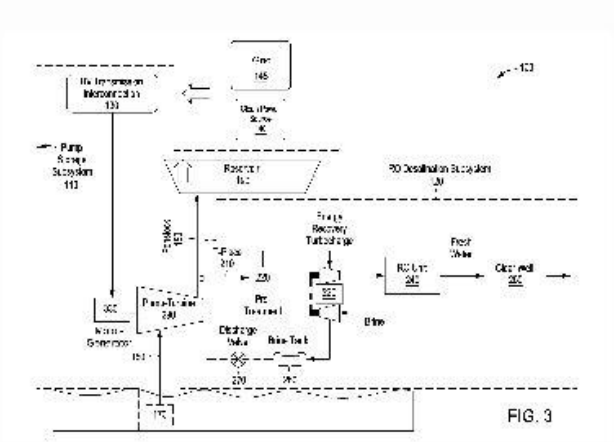
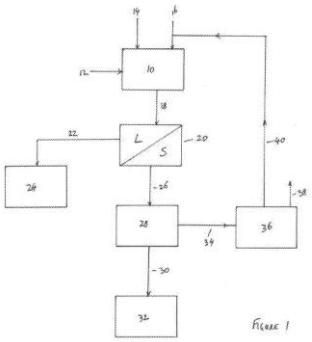


FIG. 4

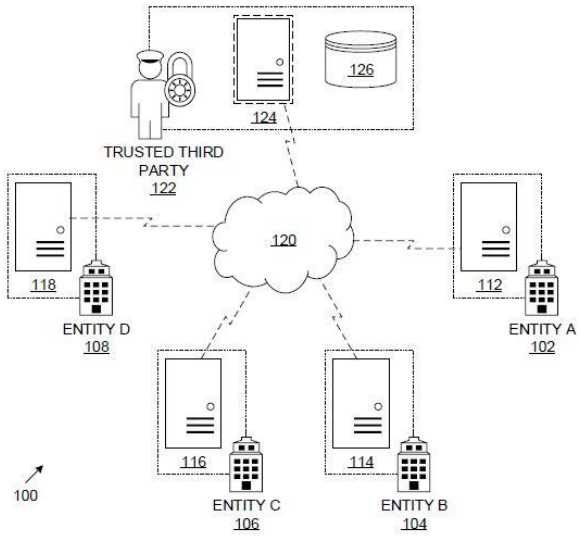
21: 2019/07362. 22: 2019/11/06. 43: 2023/04/03
51: B01D; C02F; F03B; F03D
71: OCEANUS POWER & WATER, LLC
72: ARONSON, Neal, WALKER, Sandra, GUERRERO, Jose Alberto Garcia, JELDREZ, Joan Leal, ALLEN, Mark
33: US 31: 62/483,879 32: 2017-04-10
33: US 31: 62/513,845 32: 2017-06-01
33: US 31: 15/858,884 32: 2017-12-29
54: AN INTEGRATED SYSTEM FOR GENERATING, STORING AND DISPENSING CLEAN ENERGY AND DESALINATING WATER
00: -
Embodiments of this invention provide an integrated system for clean energy generation and storage and RO desalination. The integrated system includes a first subsystem that stores hydraulic energy. The integrated system further includes a second subsystem that desalinates water. The integration system also includes a penstock that facilitates flow of the water between the first subsystem and the second subsystem. The integrated subsystem may also incorporate solar and/or wind power generation plants as a power source for the integrated system.



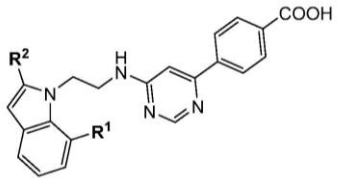
21: 2019/08098. 22: 2019/12/05. 43: 2023/04/11
51: C22B
71: Glencore Technology Pty Limited
72: VOIGT, Paul Benjamin, GHAHREMAN, Ahmad
33: AU 31: 2017902196 32: 2017-06-08
54: LEACHING PROCESS
00: -
A process for leaching a mineral particulate material comprising the steps of feeding the mineral particulate material to a leaching step (10) in which at least one valuable metal in the mineral particulate material is leached into a leach solution to form a pregnant leach liquor and a solid residue containing undissolved mineral matter, the leaching step being conducted under conditions such that elemental sulphur is formed in the leaching step, wherein beads or particles that take up elemental sulphur are added to the leaching step such that elemental sulphur is taken up by or collects on the beads or particles, and separating the beads or particles from the pregnant leach liquor and the solid residue. The beads or particles may be treated to remove sulphur and the beads or particles are returned to the leaching step. Alternatively the mineral doesn't need to comprise a soluble component and can be a refractory sulphide of iron and/or arsenic containing precious metals that require oxidation before downstream conventional processes such as cyanidation.



21: 2019/08262. 22: 2019/12/11. 43: 2023/05/26
51: G06Q
71: ENTERSEKT INTERNATIONAL LIMITED
72: BESTER, Daniël Deetlefs
33: ZA 31: 2017/03688 32: 2017-05-30
54: PROTOCOL-BASED SYSTEM AND METHOD FOR ESTABLISHING A MULTI-PARTY CONTRACT
00: -
A protocol-based system and method for establishing a multi-party contract are disclosed. In a method conducted at a computing device associated with an entity, a set of contract data elements relating to a contract to be established is received from either one of another entity or a deal negotiation component associated with the entity. The contract data elements are validated using an associated contract schema and a schema-based validation algorithm. If the contract data elements are valid, the contract data elements are transmitted to the other of the deal negotiation component or another entity. Transmitting the contract data elements to another entity includes generating a digital signature associated with the contract data elements by digitally signing the contract data elements or a representation thereof and transmitting the digital signature and either of the contract data elements or the representation thereof to the other entity.

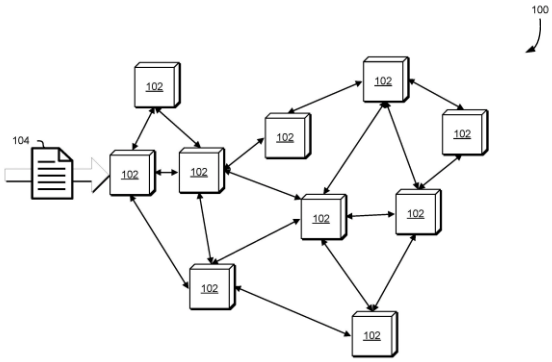


21: 2019/08398. 22: 2019/12/17. 43: 2023/04/12
51: A61K; A61P; C07D
71: Idorsia Pharmaceuticals Ltd
72: FRETZ, Heinz, LYOTHIER, Isabelle, POTHIER, Julien, RICHARD-BILDSTEIN, Sylvia, SIFFERLEN, Thierry
33: PCT/EP(CH) 31: 2017/062008 32: 2017-05-18
54: N-SUBSTITUTED INDOLE DERIVATIVES
00: -
The present invention relates to derivatives of formula (I) Formula (I) wherein R1, and R 2 are as described in the description, to their preparation, to pharmaceutically acceptable salts thereof, and to their use as pharmaceuticals, to pharmaceutical compositions containing one or more compounds of formula (I), and especially to their use as modulators of the prostaglandin 2 receptor EP2.



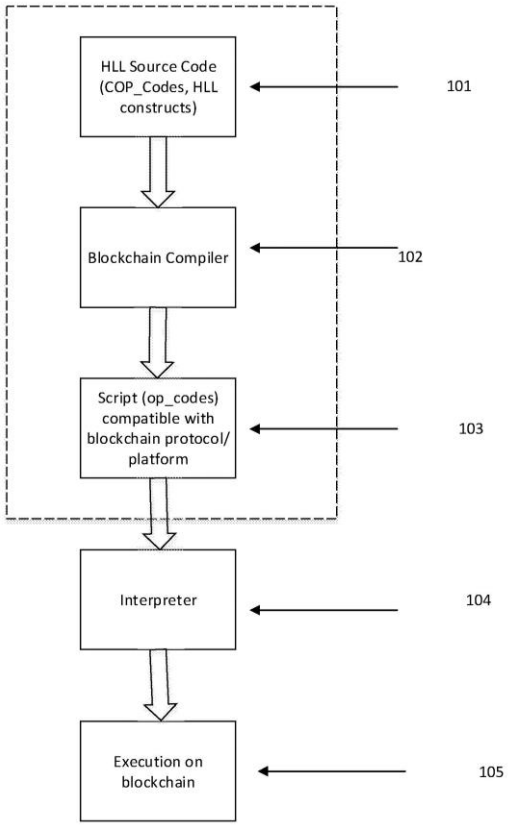
Formula (I)

21: 2019/08400. 22: 2019/12/17. 43: 2023/04/11
51: G06F; G06Q; H04L
71: nChain Holdings Limited
72: CHAN, Ying, KRAMER, Dean
33: GB 31: 1708200.9 32: 2017-05-22
33: GB 31: 1708196.9 32: 2017-05-22
33: GB 31: 1708190.2 32: 2017-05-22
33: GB 31: 1708185.2 32: 2017-05-22
33: GB 31: 1708192.8 32: 2017-05-22
33: GB 31: 1708198.5 32: 2017-05-22
54: DUPLICATING SMART CONTRACTS WITH TERMINATION CONDITION
00: -
The invention relates to distributed ledger technologies such as consensus-based blockchains. Computer-implemented methods for a self-replicating smart contract with termination condition are described. The invention is implemented using a blockchain network, which may be, for example, a Bitcoin blockchain. A first transaction to validate is received at a node in a blockchain network. The first transaction includes a first script that, as a result of being executed, causes the node to at least obtain a first set of field values of the first transaction, with the first set of field values including a third script, and obtain a second set of field values of a second transaction, with the second set of field values including a copy of the second script. A second transaction is obtained. The second transaction includes a second script that, as a result of being executed, causes the node to, as a result of determining that a termination condition is unfulfilled, at least obtain the third script from the first set of field values, and determine that the copy of the second script matches the third script. The first transaction is validated as a result of execution of the first script and the second script.

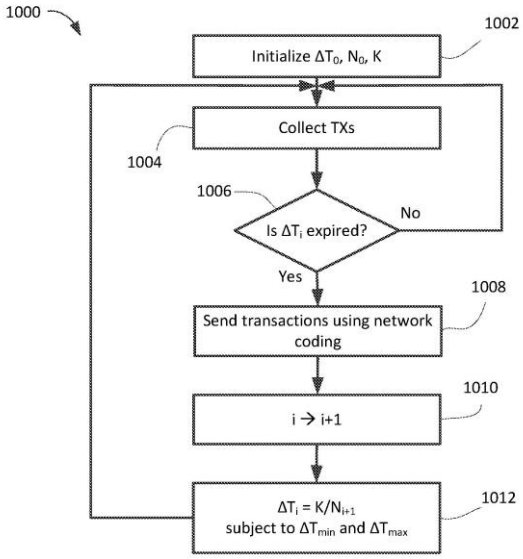


21: 2019/08552. 22: 2019/12/20. 43: 2023/04/24
51: G06F; H04L
71: nChain Holdings Limited
72: WRIGHT, Craig Steven, SAVANAH, Stephane
33: GB 31: 1710971.1 32: 2017-07-07
33: PCT/IB (GB) 31: 2017/054113 32: 2017-07-07
33: GB 31: 1710967.9 32: 2017-07-07
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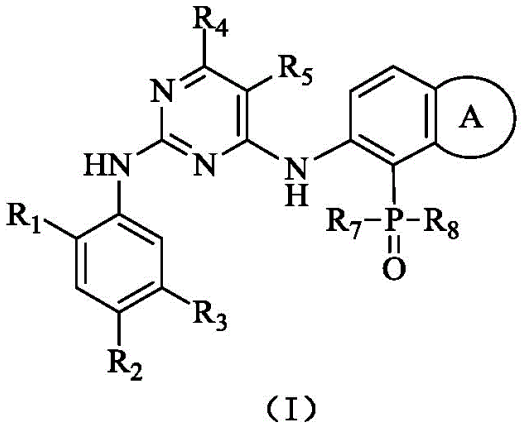
33: PCT/IB (GB) 31: 2017/054110 32: 2017-07-07
33: PCT/IB (GB) 31: 2017/054114 32: 2017-07-07
54: SYSTEM AND METHOD FOR COMPILING HIGH-LEVEL LANGUAGE CODE INTO A SCRIPT EXECUTABLE ON A BLOCKCHAIN PLATFORM
00: -
A computer-implemented method (and corresponding system) is provided that enables or facilitates the execution of a portion of source code, written in a high-level language (HLL), on a blockchain platform. The method and system can include a blockchain compiler, arranged to convert a portion of high-level source code into a form that can be used with a blockchain platform. This may be the Bitcoin blockchain or an alternative. The method can include : receiving the portion of source code as input; and generating an output script comprising a plurality of op codes. The op codes are a subset of op codes that are native to a functionally-restricted, blockchain scripting language. The outputted script is arranged and/or generated such that, when executed, the script provides, at least in part, the functionality specified in the source code. The blockchain scripting language is restricted such that it does not natively support complex control-flow constructs or recursion via jump-based loops or other recursive programming constructs. The step of generating the output script may comprise the unrolling at least one looping construct provided in the source code. The method may further comprise providing or using an interpreter or virtual machine arranged to convert the output script into a form that is executable on a blockchain platform.



21: 2019/08553. 22: 2019/12/20. 43: 2023/04/24
51: G06Q; H04B; H04L
71: nChain Holdings Limited
72: MOTYLINSKI, Patrick, MADEO, Simone, DESTEFANIS, Giuseppe, VINCENT, Stephane
33: GB 31: 1711125.3 32: 2017-07-11
54: OPTIMISATION OF NETWORK PARAMETERS FOR ENABLING NETWORK CODING
00: -
Methods and devices for propagating transactions in a network of nodes, each node having one or more connections to other nodes. The method includes receiving a plurality of incoming transactions over a time period; combining the plurality of incoming transactions using network coding to generate a composite message; sending the composite message to one or more nodes in the network; and determining an adjusted time period based on an equilibrium constant parameter and a count of transactions in the plurality of incoming transactions received over the time periodk.

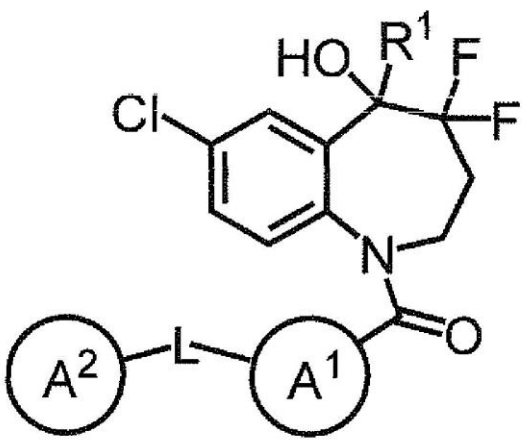


21: 2020/00395. 22: 2020/01/21. 43: 2023/05/08
51: A61K; C07D; A61P
71: CHIA TAI TIANQING PHARMACEUTICAL GROUP CO., LTD.
72: WU, Lingyun, LIU, Xile, DING, Charles Z, CHEN, Shuhui, HU, Lihong, ZHAO, Lele, PAN, Wei, HU, Guoping, LI, Jian, ZHAO, Ning, ZHAO, Jun
33: CN 31: 201710592778.X 32: 2017-07-19
33: CN 31: 201711277584.7 32: 2017-12-06
33: CN 31: 201810130633.2 32: 2018-02-08
33: CN 31: 201810355614.X 32: 2018-04-19
54: ARYL-PHOSPHORUS-OXYGEN COMPOUND AS EGFR KINASE INHIBITOR
00: -
Disclosed is a class of new aryl-phosphorus-oxygen compounds as shown in formula (I) as EGFR kinase inhibitors, and pharmaceutically acceptable salts thereof.



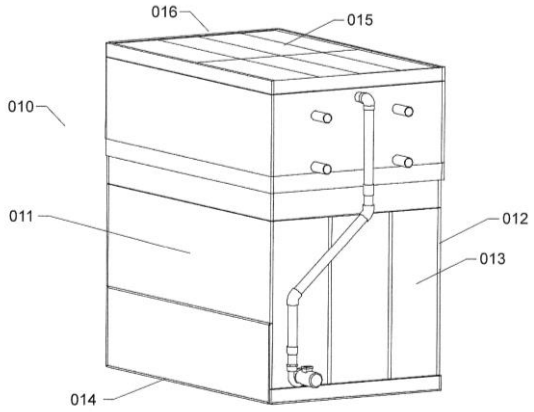
(I)

21: 2020/00438. 22: 2020/01/22. 43: 2023/04/12
51: A61K; A61P; C07D
71: Otsuka Pharmaceutical Co., Ltd.
72: KAN, Keizo, TAKUWA, Masatoshi, TANAKA, Hirotaka, FUJIWARA, Hideto, YAMABE, Hokuto, MATSUDA, Satoshi, OHDACHI, Kazuhiro, HANARI, Taiki, MENJO, Yasuhiro, URUSHIMA, Tatsuya, FUJITA, Shigekazu
33: PCT/JP 31: 2017/024211 32: 2017-06-30
54: BENZAZEPINE DERIVATIVES
00: -
The present invention provides novel benzazepine compounds of Formula (1), or salts thereof, having vasopressin V1a and V2 antagonisms, and medical uses thereof. In the formula, R1 is optionally substituted C1-6 alkyl, etc.; L is -C(=O)-NH-, etc.; Ring A1 is a hydrocarbon ring, etc.; Ring A2 is a hydrocarbon ring, etc.; and each of Rings A1 and A2 may have at least one substituent.



(1)

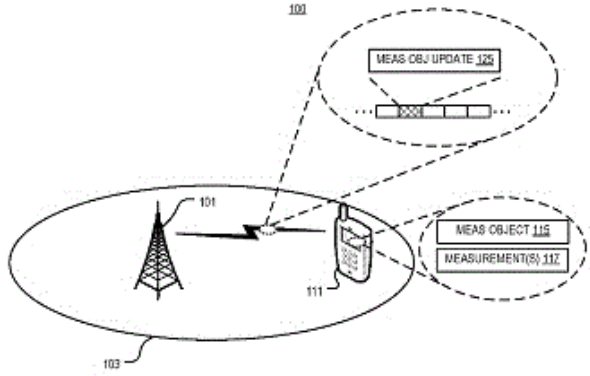
21: 2020/01293. 22: 2020/02/28. 43: 2023/06/05
51: E04H; F28C; F28F
71: BALTIMORE AIRCOIL COMPANY, INC.
72: AUTH, Christopher, ROUSSELET, Yohann, MALAMUD, Dina, EGOLF, Kevin, SZTOBRYN, Lukasz
33: US 31: 15/692,585 32: 2017-08-31
54: WATER COLLECTION ARRANGEMENT
00: -
An improved water management system with improved airflow distribution for counterflow evaporative heat exchangers is provided. Such heat exchangers include open cooling towers, closed circuit cooling towers, and evaporative condensers. The improved water management system eliminates water splash out and the noise associated with water splashing. Further when the fan assemblies are located below the evaporative heat exchanger, the improved water management system keeps the fans dry and prevents freezing in subzero climates.



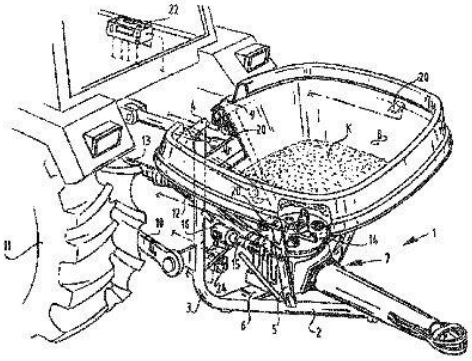
21: 2020/01892. 22: 2020/03/24. 43: 2023/04/12
51: A61K
71: HANMI PHARM. CO., LTD.
72: CHO, Jung Hyun, KIM, Hyung Seo, KWON, Taek Kwan, KIM, Yong Il
33: KR 31: 10-2017-0126878 32: 2017-09-29
33: KR 31: 10-2018-0079614 32: 2018-07-09
54: COMBINED PHARMACEUTICAL FORMULATION COMPRISING DAPAGLIFLOZIN L-PROLINE AND METFORMIN
00: -
The present invention relates to a combined formulation comprising dapagliflozin L-proline and metformin both. A combined formulation according to the present invention is advantageous for long-term medication because the formulation exhibits not only improved storage stability and property stability and an excellent dissolution rate, but also is highly convenient for dosage. In addition, the combined formulation can be useful for prevention or treatment of diabetes, diabetes-related disease, or diabetic complications.

21: 2020/02453. 22: 2020/05/05. 43: 2023/06/05
51: H04W
71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)
72: TOBIAS AHLSTRÖM, HELKA-LIINA MÄÄTTANEN, ICARO L. J DA SILVA, KRISTINA ZETTERBERG, PARISA PAKNIAT
33: US 31: 62/587,361 32: 2017-11-16
54: CELL GLOBAL IDENTIFIER REPORTING IN A WIRELESS COMMUNICATION SYSTEM
00: -
A wireless device (111) is configured to receive, from a network node (101), in a measurement reporting configuration information element (127) of a

measurement configuration or a measurement identity information element (129) of a measurement configuration, an indication (128) of for which cell the wireless device (111) (111) is to report a cell global identifier, CGI. In embodiments in which the indication (128) is received in the measurement reporting configuration information element (127), for instance, the wireless device (111) may add a reporting configuration indicated by that information element to a list of reporting configurations at the wireless device (111), e.g., as opposed to updating an existing reporting configuration. Regardless, the wireless device (111) may also be configured to report a CGI for the cell indicated by the received indication (128).

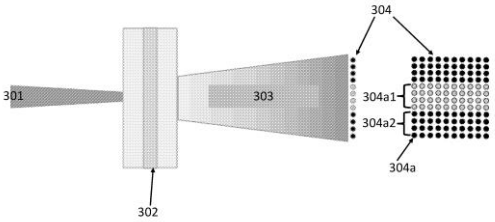


21: 2020/04068. 22: 2020/07/03. 43: 2023/04/03
51: A01B; A01C; G01G
71: KVERNELAND GROUP MECHATRONICS B.V.
72: BIESENBEEK, Sander, VAN DER VLUGT, Peter
33: EP 31: 17209491.4 32: 2017-12-21
54: A METHOD FOR CONTROLLING A DRIVING CONDITION FOR A TRACTOR OF AN AGRICULTURAL MACHINE AND AN AGRICULTURAL MACHINE
00: -
The present disclosure relates to a method for controlling a driving condition for a tractor of agricultural machine having a tractor, an implement having an application device for applying a material selected from the group of a granular material, a liquid material, and a powder-form material, the implement being carried or trailed by the tractor and comprising a supply container for receiving the material, an application device for applying the material, and a weight sensor device having at least one weight sensor configured to sense an empty weight and a filling weight for the supply container, and a tractor implement management system, the tractor implement management system operationally connected to the weight sensor device and configured to generate control signals for controlling driving conditions of the tractor. The method comprises moving the agricultural machine by tractor driving, measuring first weight signals by the weight sensor device, the first weight signals indicative of a first driving condition for the movement of the agricultural machine, providing first tractor control signals in the tractor implement management system, the first tractor control signals generated in response to the first weight signals and configured to apply a first control condition to the tractor driving, and applying the first tractor control signals for controlling the tractor driving. Further, an agricultural machine is provided.



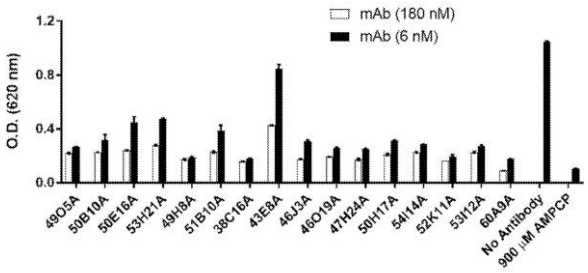
21: 2020/04143. 22: 2020/07/07. 43: 2023/04/05
51: G01N
71: BECTON, DICKINSON AND COMPANY
72: OSBORNE, Geoffrey, CAO, Jianying
33: US 31: 62/620,916 32: 2018-01-23
54: SYSTEMS FOR DYNAMIC LIGHT DETECTION OBSCURATION AND METHODS FOR USING THEREOF
00: -
Systems for differentially detecting light from a sample in a flow stream (e.g., in a flow cytometer) across one or more dimensions are described. Light detection systems according to embodiments include a flow cell configured to propagate a sample in a flow stream, a light source configured to irradiate the sample in the flow cell and a detector system having an optical adjustment component and a detector that is configured to differentially detect light from the flow cell without a scatter bar. Systems according to certain embodiments are configured to

differentially detect light by modulating one or more components of the optical adjustment component or the detector. Methods for differentially detecting light from a sample in a flow stream with a detector unit without a scatter bar are also described. Kits having two or more components for use in the subject systems are also provided.

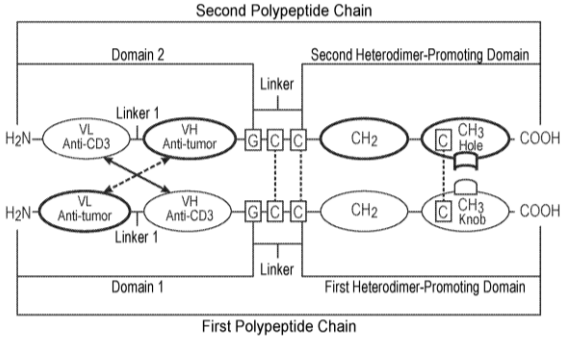


21: 2020/04735. 22: 2020/07/30. 43: 2023/04/24
51: A61K; C07K
71: Amgen Inc.
72: ALI, Khaled M.K.Z., AGRAWAL, Neeraj Jagdish, KANNAN, Gunasekaran, FOLTZ, Ian, WANG, Zhulun, BATES, Daren, MOCK, Marissa, TAKENAKA, Shunsuke
33: US 31: 62/616,733 32: 2018-01-12
54: ANTI-PD-1 ANTIBODIES AND METHODS OF TREATMENT
00: -
Provided herein are PD-1 antigen-binding proteins and related nucleic acids, vectors, host cells, kits and pharmaceutical compositions. Methods of making PD-1 antigen-binding proteins and methods of treating a subject are further provided.

21: 2020/04827. 22: 2020/08/04. 43: 2023/04/24
51: A61K; A61P; C07K
71: Phanes Therapeutics, Inc.
72: WANG, Minghan, ZOU, Hui, PEI, Fen
33: US 31: 62/640,955 32: 2018-03-09
54: ANTI-CD73 ANTIBODIES AND USES THEREOF
00: -
Anti-CD73 antibodies and antigen-binding fragments thereof are described. Also described are nucleic acids encoding the antibodies, compositions comprising the antibodies, and methods of producing the antibodies and using the antibodies for treating or preventing diseases such as cancer.



21: 2020/06608. 22: 2020/10/23. 43: 2023/05/11
51: C07K; A61P
71: Pfizer Inc.
72: TCHISTIAKOVA, Lioudmila, Gennadievna, APGAR, James Reasoner, JIN, Fang, KATRAGADDA, Madan, MATHUR, Divya
33: US 31: 62/675,562 32: 2018-05-23
33: US 31: 62/847,460 32: 2019-05-14
54: ANTIBODIES SPECIFIC FOR CD3 AND USES THEREOF
00: -
The present invention provides novel antibodies that specifically bind to CD3 and uses thereof. The invention also provides therapeutic and diagnostic methods utilizing the antibodies and antigen-binding fragments provided herein.



21: 2020/07161. 22: 2020/11/17. 43: 2023/04/18
51: G01N
71: Enersoft Inc.
72: SEGAL, Yannai Z. R., SANDEN, Grant I.
33: US 31: 62/673,507 32: 2018-05-18
54: SYSTEMS, DEVICES, AND METHODS FOR ANALYSIS OF GEOLOGICAL SAMPLES
00: -
A geological analysis system and method are provided. The system includes sensors, including an X-ray fluorescence (XRF) sensor, which detect properties of geological sample materials, a sample

tray which holds the sample materials therein, and a processor. The XRF sensor includes a body and a separable head unit and an output port configured to emit helium onto the sample materials within the tray. The tray includes chambers formed in an upper surface, ports, and passages, each providing communication between an interior of a chamber and an interior of a port. The ports are configured to be attachable to vials. The processor is configured to automatically position at least one of the sensors and the tray with respect to the other of the at least one of the sensors and the tray and to control the sensors.

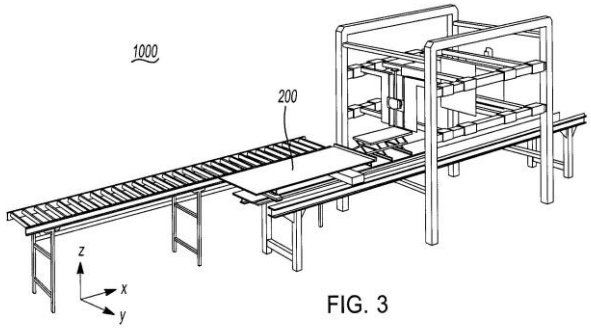


FIG. 3

21: 2020/07407. 22: 2020/11/27. 43: 2023/05/29
51: A61K; A61P
71: SUVEN LIFE SCIENCES LIMITED
72: JASTI, Venkateswarlu, NIROGI, Ramakrishna, JAYARAJAN, Pradeep, RAVULA, Jyothsna, SHINDE, Anil Karbhari, BENADE, Vijay, Sidram, DARIPELLI, Saivishal
33: IN 31: 201841020498 32: 2018-05-31
54: METHOD OF TREATMENT WITH HISTAMINE-3 RECEPTOR INVERSE AGONIST
00: -
The present invention provides new methods of treatment for narcolepsy, excessive daytime sleepiness, obstructive sleep apnea, circadian rhythm sleep disorders, sleep and vigilance disorders associated with Parkinson's disease, multiple sclerosis, dementia or attention deficit hyperactivity disorder by administering a therapeutically effect amount of histamine-3 receptor (H3R) inverse agonist, N-[4-(l-Cyclobutylpiperidin-4-yloxy)phenyl]- 2-(morpholin-4-yl)acetamide or a pharmaceutically acceptable salt thereof. The present invention further provides use of the said compounds in the manufacture of medicament intended for the treatment of the disorders described herein.

Figure 1a

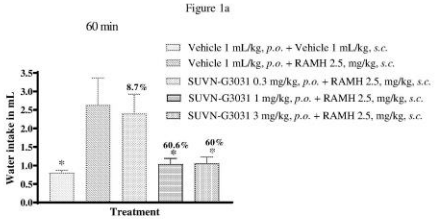
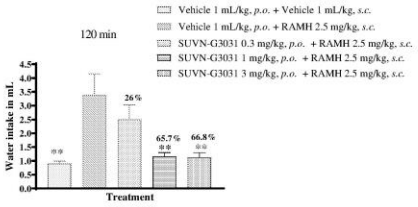


Figure 1b



**p<0.01, *p<0.05.one way ANOVA followed by Dunnett's post hoc test (n=8)

21: 2020/07444. 22: 2020/11/30. 43: 2023/05/22
51: A61K; C12N
71: IONIS PHARMACEUTICALS, INC.
72: FREIER, Susan, M., KORDASIEWICZ, Holly, COLE, Tracy, A, BUI, Huynh-Hoa
33: US 31: 62/690,790 32: 2018-06-27
54: COMPOUNDS AND METHODS FOR REDUCING LRRK2 EXPRESSION
00: -
Provided are compounds, methods, and pharmaceutical compositions for reducing the amount or activity of LRRK2 RNA in a cell or animal, and in certain instances reducing the amount of LRRK2 protein in a cell or animal. Such compounds, methods, and pharmaceutical compositions are useful to ameliorate at least 5 one symptom or hallmark of a neurodegenerative disease. Such symptoms and hallmarks include ataxia, neuropathy, and aggregate formation. Such neurodegenerative diseases include Parkinson's disease.

21: 2020/07576. 22: 2020/12/04. 43: 2023/04/18
51: H01B; H02J
71: Enertechnos Limited
72: SALEHI-MOGHADAM, Mansour, O'BRIEN, Gareth, LUCAS-CLEMENTS, Charles, QUENNELL, Dominic
33: GB 31: 1809392.2 32: 2018-06-07
54: CAPACITIVE POWER TRANSMISSION CABLE
00: -

A capacitive power transmission cable (1) comprising at least two sets of conductive strands (2). The strands of the sets are distributed in a transverse cross- section of the cable, whereby the two sets are in capacitive relation to each other.

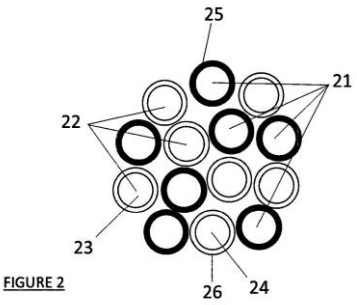


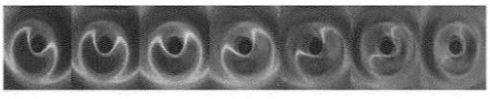
FIGURE 2

21: 2020/07606. 22: 2020/12/07. 43: 2023/04/18
51: B05D; B41F; B41M; B42D; C09D; H01F
71: SICPA HOLDING SA
72: AMERASINGHE, Cédric, SCHMID, Mathieu, DESPLAND, Claude-Alain
33: EP(CH) 31: 18171312.4 32: 2018-05-08

54: MAGNETIC ASSEMBLIES, APPARATUSES AND PROCESSES FOR PRODUCING OPTICAL EFFECT LAYERS COMPRISING ORIENTED NON-SPHERICAL MAGNETIC OR MAGNETIZABLE PIGMENT PARTICLES

00: -

The present invention relates to the field of magnetic assemblies, magnetic apparatuses and processes for producing optical effect layers (OEL) comprising magnetically oriented non-spherical magnetic or magnetizable pigment particles on a substrate and providing an impression of a crescent moon-shaped element moving or rotating upon tilting the optical effect layer (OEL). In particular, the present invention relates to magnetic assemblies, magnetic apparatuses and processes for producing said OELs as anti-counterfeit means on security documents or security articles or for decorative purposes.



21: 2020/07610. 22: 2020/12/07. 43: 2023/04/20
51: C12Q
71: MASSACHUSETTS INSTITUTE OF TECHNOLOGY, The Broad Institute, Inc., President and Fellows of Harvard College
72: ZHANG, Feng, KELLNER, Max, GOOTENBERG, Jonathan, ABUDAYYEH, Omar
33: US 31: 62/690,257 32: 2018-06-26

54: CRISPR EFFECTOR SYSTEM BASED AMPLIFICATION METHODS, SYSTEMS, AND DIAGNOSTICS

00: -

Provided herein are methods and systems for amplifying and/or detecting target double-stranded or single-stranded nucleic acids. The methods comprise combining a sample comprising the target nucleic acid with an amplification reaction mixture, amplifying the target nucleic acid, and further amplifying the target nucleic acid by repeated opening, unwinding, annealing and extension under isothermal conditions. The amplification reaction mixture may include an amplification CRISPR system, a helicase, a primer pair, and a polymerase. The amplification CRISPR system may comprise a first and second CRISPR/Cas complex, the first and second CRISPR/Cas complex may comprise a first CRISPR/Cas enzyme and a first guide molecule that guides the first CRISPR/Cas complex to a first strand of the target nucleic acid; the second CRISPR/Cas complex may comprise a second CRISPR/Cas enzyme and a second guide molecule that guides the second CRISPR/Cas complex to a second strand of the target nucleic acid.

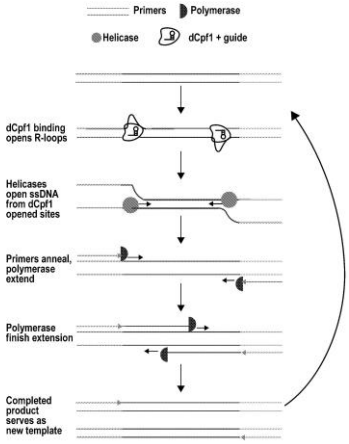


FIG. 2

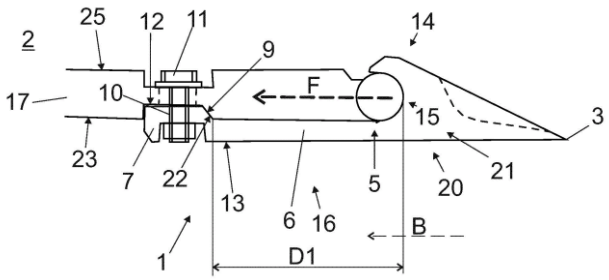
21: 2020/07633. 22: 2020/12/08. 43: 2023/05/11
51: C12N
71: INTELLIA THERAPEUTICS, INC.
72: SMITH, Amy, Madison, Rhoden, MORRISSEY, David, V., STRAPPS, Walter
33: US 31: 62/431,756 32: 2016-12-08

54: MODIFIED GUIDE RNAS
00: -
This disclosure relates to modified single and dual guide RNAs having improved in vitro and in vivo activity in gene editing methods.

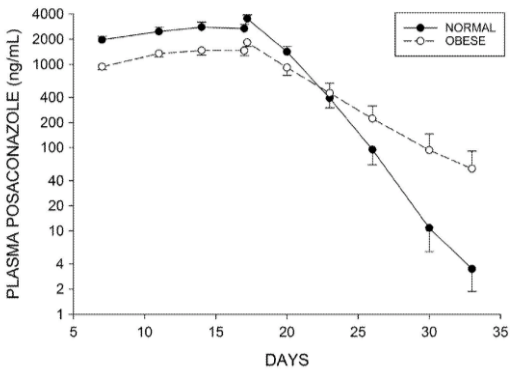
21: 2020/07868. 22: 2020/12/17. 43: 2023/04/18
51: A61K; A61P; C07K
71: Eli Lilly and Company
72: DEMATTOS, Ronald Bradley, LU, Jirong, TANG, Ying
33: US 31: 62/487,550 32: 2017-04-20
54: ANTI-N3pGlu AMYLOID BETA PEPTIDE ANTIBODIES AND USES THEREOF
00: -
Antibodies to human N3pGlu Aß, compositions comprising such N3pGlu Aß antibodies, and methods of using such N3pGlu Aß antibodies for the treatment of a disease characterized by deposition of Aß including clinical or pre-clinical Alzheimers disease, Downs syndrome, and clinical or pre-clinical cerebral amyloid angiopathy.

21: 2020/07891. 22: 2020/12/17. 43: 2023/04/18
51: A01N
71: UPL LTD
72: JADHAV, Prakash Mahadeo, SKORCZYNSKI, Stephen, CHIARELLA, Emily, GRAY, Cody Jack, SHROFF, Jaidev Rajnikant, SHROFF, Vikram Rajnikant
33: IN 31: 201831019681 32: 2018-05-25
54: AQUEOUS HERBICIDAL INTERMIXTURES
00: -
The present invention relates to aqueous homogeneous herbicide compositions comprising electrolytic herbicides and a multipart amine component wherein said multipart amine component comprises at least one tertiary amine having an alkyl group of at least 8 carbon atoms.

21: 2020/07896. 22: 2020/12/17. 43: 2023/04/18
51: E02F
71: Sandvik Mining and Construction Oy
72: LEHTO, Tony
33: EP(FI) 31: 18187304.3 32: 2018-08-03
54: WEAR PART, BUCKET, SYSTEM AND METHOD
00: -
A wear part (1), a bucket (2), bucket system and a method. The wear part (1) comprises a forward edge (3) for intruding in a material to be handled by the bucket (2), and an engagement portion (4) for engaging with an engagement edge (5) of the bucket (2). The engagement portion (4) comprises a concave cross section (14). A lever element (6) extends from a side of the engagement portion (4) in a direction backwards (B) from the forward edge (3), and a fastening unit (7) is arranged in a distal end (8) of the lever element. The bucket (2) has a plate hole (24) arranged behind a bucket threshold (22) in relation to an engagement edge (5) for receiving a fastening element (11) for fastening the wear part (1) to the bucket (2).



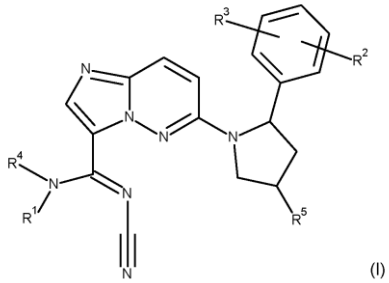
21: 2021/00059. 22: 2021/01/05. 43: 2023/04/11
51: A61K; C12N
71: Bow River LLC
72: SRINIVASAN, Sundar, CHOW, Christina
33: US 31: 16/036,678 32: 2018-07-16
54: METHODS OF TREATMENT WITH CYP3A4 SUBSTRATE DRUGS
00: -
The present disclosure provides for methods of treating a patient with a CYP3A4 substrate drug, wherein the patient is treated with posaconazole. In some embodiments, the patient stops posaconazole treatment, waits for at least 2 days, and then is treated with the CYP3A4 substrate drug as soon as it is safe to do so. In some embodiments, treatment with the CYP3A4 substrate drug is delayed for about 2-42 days after stopping posaconazole. In some embodiments, the patient is treated with a reduced dose of the CYP3A4 substrate drug for about 2-42 days.



21: 2021/00103. 22: 2021/01/06. 43: 2023/04/18
51: C08K
71: Bridgestone Europe NV/SA
72: FORTE, Gianluca, CAVALIERE, Alessio
33: IT 31: 102018000007028 32: 2018-07-09
54: TREAD OF TBR PNEUMATIC TYRES OF DRIVING WHEELS
00: -
A TBR pneumatic tyre of a driving wheel comprising a tread having a design such as to confer an average tread slip of less than 0.5 mm and a tread points slip range of between 0.07 mm and 1.17 mm. The tread is manufactured with a compound comprising a cross-linking unsaturated chain polymer base comprising from 40 to 80% by weight of a styrene-butadiene rubber (SBR), a filler comprising from 40 to 80% by weight of silica and a vulcanization system.

21: 2021/00125. 22: 2021/01/07. 43: 2023/06/05
51: A61K; C07K; A61P
71: PIERIS PHARMACEUTICALS GMBH, LES LABORATOIRES SERVIER
72: PAVLIDOU, Marina, PATTARINI, Lucia, SCHOLER-DAHIREL, Alix, ROTHE, Christine, OLWILL, Shane, BEL AIBA, Rachida, HINNER, Marlon, PEPER, Janet
33: EP 31: 18186445.5 32: 2018-07-31
33: EP 31: 18204548.4 32: 2018-11-06
54: NOVEL FUSION PROTEIN SPECIFIC FOR CD137 AND PD-L1
00: -
The disclosure provides fusion proteins specific for both CD 137 and PD-L1, which fusion protein can be used to co-stimulate lymphocyte activation in a PD-L1-target-dependent manner. Such fusion proteins can be used in many pharmaceutical applications, for example, as anti-cancer agents and/or immune modulators for the treatment or prevention of human diseases such as a variety of tumors. The present disclosure also concerns methods of making the fusion proteins described herein as well as compositions comprising such fusion proteins. The present disclosure further relates to nucleic acid molecules encoding such fusion proteins and to methods for generation of such fusion proteins and nucleic acid molecules. In addition, the application discloses therapeutic and/or diagnostic uses of such fusion proteins as well as compositions comprising one or more of such fusion proteins.

21: 2021/00158. 22: 2021/01/11. 43: 2023/06/05
51: A61K; C07D; A61P
71: BENEVOLENTAI BIO LIMITED
72: BROWN, Alan, GLEN, Angela
33: GB 31: 1811825.7 32: 2018-07-19
54: IMIDAZO[1,2-B]PYRIDAZINE DERIVATIVES AS TRK INHIBITORS
00: -
The present invention relates to certain imidazo[1,2-b]pyridazine compounds and the pharmaceutically acceptable salts of such compounds. The invention also relates to the processes for the preparation of the compounds, compositions containing the compounds, and the uses of such compounds and salts in treating diseases or conditions associated with tropomyosin-related kinase (Trk), activity. More specifically the invention relates to the compounds and their salts useful as inhibitors of Trk. (I) wherein R1, R2, R3, R4 and R5 are as defined herein.



(I)

21: 2021/00215. 22: 2021/01/13. 43: 2023/04/11
51: E03D; E03C
71: WHIFFAWAY LTD
72: MCLEAN, JAMES EDWARD, MARSHALL, SEBASTIAN NIKOLAI JONATHAN
33: GB 31: 2000793.6 32: 2020-01-20
54: URINAL APPARATUS WITH CONSUMABLE CAP

00: -
The improved urinal apparatus (10) is configured for insertion in an outlet of a urinal. The urinal apparatus (10) includes a hollow body (12) defining an upper housing (14) and a clamp ring/lower housing (16). The upper housing (14) provides an open chamber configured to receive and retain a consumable detergent/malodour counteractant (33) and the clamp ring/lower housing (16) is configured to support and retain a resealing valve (36), which is operable to allow flow of fluid, such as urine, from above, but is operable to prevent backflow from below the resealing valve 36. The urinal apparatus (10) also includes a consumable cap element (70), which includes an axial opening (72) at least partway through, wherein the opening (72) is configured to receive at least part of the upper housing (14). A body of the cap element comprises a plurality of radially extending fins (74, 76). One of the upper housing (14) or the consumable cap element (14) comprise an upper member (23) comprising an array of holes (24), which facilitate fluid flow and insertion and extraction of the urinal apparatus (10) as a uni

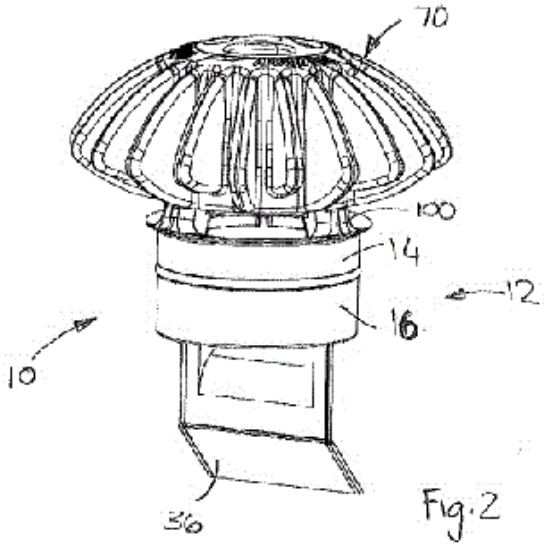
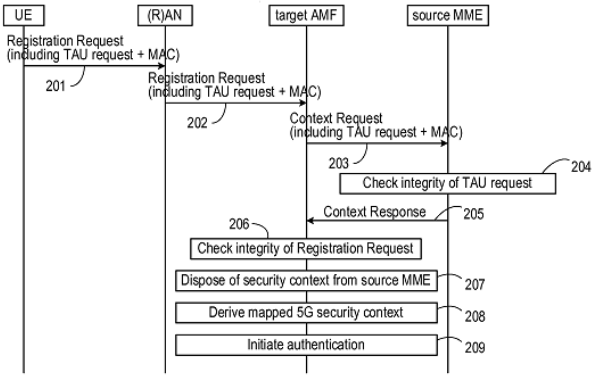


Fig.2

21: 2021/00259. 22: 2021/01/05. 43: 2023/04/05
51: A61K; C07D; A61P
71: Gilead Sciences, Inc.
72: AMMANN, Stephen, BACON, Elizabeth M., BRIZGYS, Gediminas, CHIN, Elbert, CHOU, Chienhung, COTTELL, Jeromy J., NDUKWE, Marilyn, TAYLOR, James G., WRIGHT, Nathan E., YANG, Zheng-Yu, ZIPFEL, Sheila M.
33: US 31: 62/697,533 32: 2018-07-13
54: PYRROLO[1,2-B]PYRIDAZINE DERIVATIVES
00: -
A compound of Formula (I) or pharmaceutically acceptable salts thereof, deuterated analogs thereof, compositions thereof, and methods of treating disease using a compound thereof, wherein the variable substituents are disclosed herein.

21: 2021/00297. 22: 2018/01/30. 43: 2023/04/11
51: H04W
71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)
72: JOST, Christine, TORVINEN, Vesa, HEDMAN, Peter, CHEN, Qian, OLSSON, Lars-Bertil, BEN HENDA, Noamen
33: US 31: 62/451961 32: 2017-01-30
54: WIRELESS COMMUNICATIONS
00: -
A method for operating a User Equipment (UE) is disclosed, wherein the UE is served by a source first network function in a first network and requires to register with a target second network function in a second network. The method comprises generating a registration request with integrity protection for at least a part of the registration request (1200), and sending an integrity protected part of the registration request to the source first network function via the target second network function (1202). Also disclosed are methods of operating first and second network functions.



21: 2021/00350. 22: 2021/01/18. 43: 2023/06/05
51: A61K; A61P
71: GREEN VALLEY (SHANGHAI) PHARMACEUTICALS CO., LTD., SHANGHAI

INSTITUTE OF MATERIA MEDICA, CHINESE ACADEMY OF SCIENCES
72: GENG, Meiyu, ZHANG, Zhenqing, JIN, Yingshen, XIAO, Zhongping, DING, Jian
33: CN 31: 201810721327.6 32: 2018-06-29
54: COMPOSITION OF ALGINIC OLIGOSACCHARIC DIACIDS
00: -
The present invention relates to an alginic oligosaccharic diacid composition comprising a mannuronic diacid of Formula (IV) or a pharmaceutically acceptable salt thereof, wherein n is an integer selected from 1 to 9, m is selected from 0, 1 or 2, m' is selected from 0 or 1, and wherein the total weight of alginic oligosaccharic diacid wherein n=1-5 accounts for more than 60% of the total weight of the composition; the total weight of guluronic acids accounts for less than 50% of the total weight of the composition.

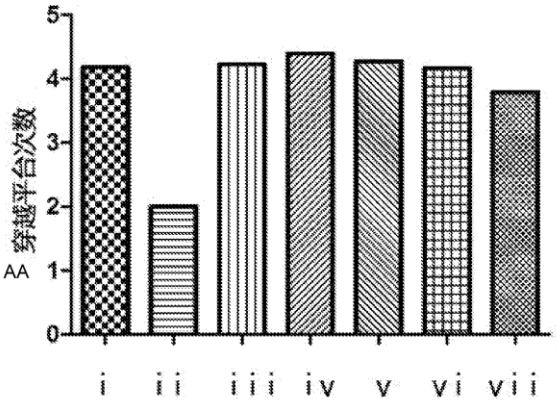
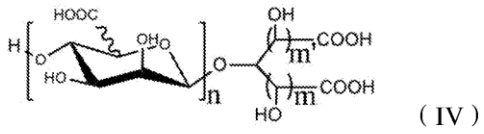


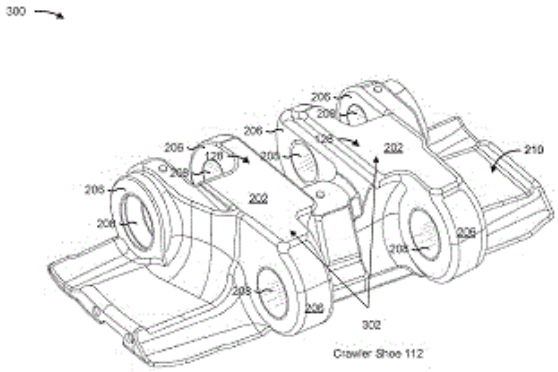
图 9

AA Platform crossing times

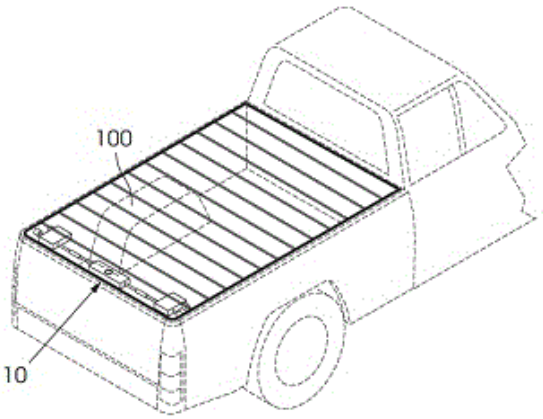


(IV)

21: 2021/00451. 22: 2021/01/21. 43: 2023/04/11
51: B62D
71: CATERPILLAR INC.
72: JONES, BENJAMIN, PREST, PAUL
33: US 31: 16/043,614 32: 2018-07-24
54: ATTACHABLE TRACK SHOE COVER
00: -
A track shoe cover (128) is disclosed. The track shoe cover (128) includes a roller engaging surface (202), and a shoe engaging surface (204). The shoe engaging surface (204) comprises a shoe engaging recess (502) defined on at least two opposite sides by a set of side walls (402), and a respective attachment groove (504) included in the set of side walls (402). The respective attachment groove (504) is configured to facilitate mechanical connection of the track shoe cover (128) and a crawler shoe (112).



21: 2021/00461. 22: 2021/01/22. 43: 2023/04/11
51: B60J; B60P
71: SUPERIOR LOAD COVER (PTY) LTD
72: PRIMIC, HEINRICH LUDWIG
33: ZA 31: 2019/07049 32: 2019-10-25
54: LOCKING MECHANISM
00: -
This invention concerns a locking mechanism for a load bin cover. The locking mechanism includes braking means for engaging a braking surface, actuating means for actuating the braking means and biasing means carried between the actuating means and the braking means. The actuating means actuates the braking means between a first, disengaged configuration in which the braking means is disengaged from the braking surface and a second, engaged configuration in which the braking means engages the braking surface. The biasing means urges the braking means into contact with the braking surface when the actuating means actuates the braking means into its engaged configuration.



21: 2021/00544. 22: 2021/01/26. 43: 2023/04/12
51: A61K; A61P; C07D
71: Loxo Oncology, Inc.
72: GUISOT, Nicolas
33: GB 31: 1522245.8 32: 2015-12-16
54: COMPOUNDS USEFUL AS KINASE INHIBITORS
00: -
This invention relates to novel compounds. The compounds of the invention are tyrosine kinase inhibitors. Specifically, the compounds of the invention are useful as inhibitors of Bruton's tyrosine kinase (BTK).The invention also contemplates the use of the compounds for treating conditions treatable by the inhibition of Bruton's tyrosine kinase, for example cancer, lymphoma, leukemia and immunological diseases.

21: 2021/00600. 22: 2021/01/27. 43: 2023/05/11
51: H04B; H04W
71: STAR MESH LLC
72: SCHLOEMER, Gerald, R.
33: US 31: 62/697,250 32: 2018-07-12
33: US 31: 62/739,245 32: 2018-09-30
54: COMMUNICATIONS SYSTEMS AND METHODS WITH STOCHASTICALLY DISTRIBUTED ORBITING SATELLITES
00: -
A radio communication system for transmitting data to a ground station includes plural stochastically distributed orbiting satellites with plural antennas traversing a portion of the earth's surface divided into zones. The ground station has a unique address identifying itself and the zone where it is located. A local area network associated with the ground node includes at least one satellite that stores the identity of a satellite antenna paired with a ground station antenna to form a radio link for transmitting data onboard the satellite to the ground station. Other satellites in the local area network store the ground node address and the identity of an antenna paired with an antenna in another satellite that also has stored the ground node address. A wide area network includes at least one satellite, each of which stores the identity of an antenna paired with an antenna of another satellite that has stored the ground node zone to form at least one inter-satellite radio link. If a satellite with data onboard is not in a local area network associated with the destination ground node or a wide area network, the satellite transmits the data toward the ground node zone.

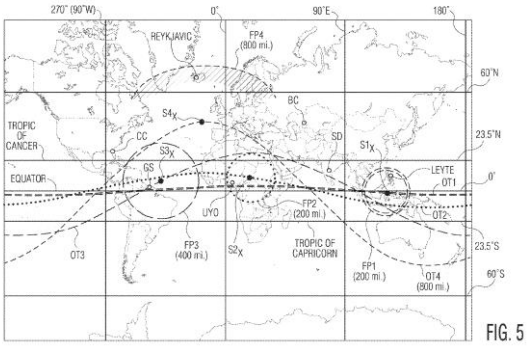


FIG. 5

21: 2021/00624. 22: 2021/01/28. 43: 2023/06/05
51: A01G
71: INTERNATIONAL PLANT PROPAGATION TECHNOLOGY LIMITED
72: COOLEY, John
33: GB 31: 1811308.4 32: 2018-07-10
33: GB 31: 1906426.0 32: 2019-05-07
54: PLANT-GROWING TRAY
00: -
A plant-growing tray for containing cylindrical stabilized media for growing plants including an array of flared columns, a lower end of the columns being wider than an upper end. The columns define an array of cells therebetween for containing cylindrical stabilized media, and a column understood one or more contact edges defined by an intersection between a wall of the flared column and a virtual cylindrical surface in a cell, such that the contact edges are suitable for contacting a cylindrical stabilized medium positioned in the cell.

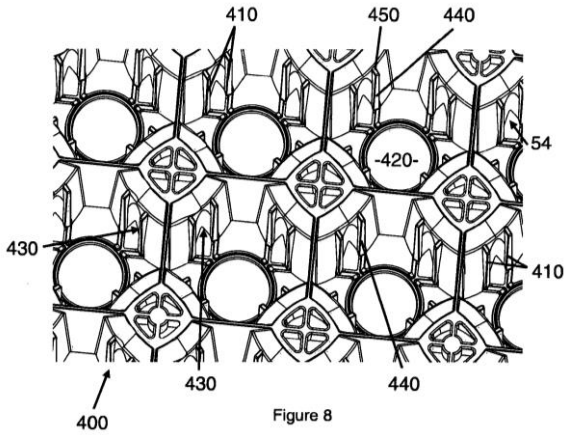
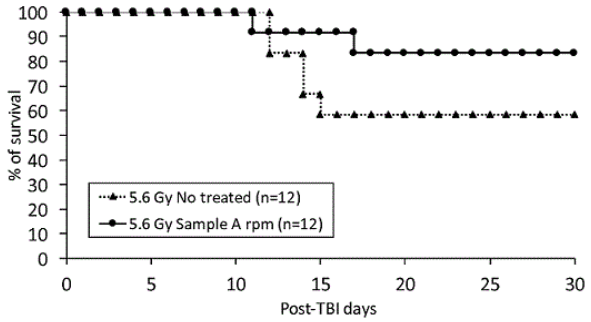


Figure 8

21: 2021/00752. 22: 2021/02/03. 43: 2023/04/05
51: A61K
71: MEDESIS PHARMA
72: COMPTE, Elsa, MAUREL, Patrick, GRIVES-JERPHAGNON, Sophie, LAVAUD, Cyril, BENIGNO-ANTON, Lorraine, MAUREL, Jean-Claude
33: US 31: 62/694,637 32: 2018-07-06
54: TREATMENT AND PREVENTION OF INJURY DUE TO RADIATION EXPOSURE
00: -
The disclosure relates to the treatment and/or prevention of radiation damage by administering a reverse micelle system.



21: 2021/00925. 22: 2021/02/10. 43: 2023/04/24
51: C12Q
71: THE ASSISTANCE PUBLIQUE - HÔPITAUX DE PARIS (APHP), PML SCREENING, LLC, UNIVERSITÉ PARIS-SACLAY, THE INSTITUT NATIONAL DE LA SANTÉ ET DE LA RECHERCHE MÉDICALE (INSERM)
72: HATCHWELL, ELI, EIS, PEGGY S, SMITH, EDWARD B. III, TAOUFIK, YASSINE
33: US 31: 62/716,183 32: 2018-08-08
33: US 31: 62/716,072 32: 2018-08-08
54: METHODS FOR ASSESSING THE RISK OF DEVELOPING PROGRESSIVE MULTIFOCAL LEUKOENCEPHALOPATHY CAUSED BY JOHN CUNNINGHAM VIRUS BY GENETIC TESTING
00: -
This document provides methods and materials related to treating a disease. For example, this document provides methods for treating a subject's disease based on identifying the risk of progressive multifocal leukoencephalopathy PML using a genetic test.

21: 2021/01004. 22: 2021/02/15. 43: 2023/04/11
51: E04H
71: PRINSLOO, CATHARINA MAGRIETA JEANETTA
72: WIESNER, THOMAS BLAIR, PRINSLOO, CATHARINA MAGRIETA JEANETTA
33: ZA 31: 2019/07563 32: 2019-11-15
54: FENCE POST
00: -
A fence post assembly 10 configured for deterring theft of wire, used as part of a fence 100. The fence post assembly 10 comprises a post 12, in use anchored relative to a surface 16, such as the ground, and a locking assembly 18 comprising a clamping formation 20 and a locking mechanism 22. The locking mechanism 22 comprises a threaded portion 24 and a nut 26. The configuration is such that interaction between the nut 26 and the threaded portion 24 causes the clamping formation 20 to clamp a wire 28 which, in use, extends across a clamping surface 30 associated with the post 12, between the clamping surface 30 and the clamping formation 20.

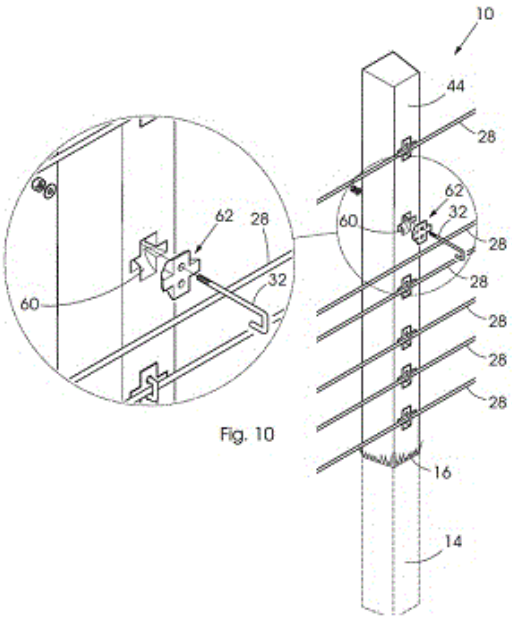
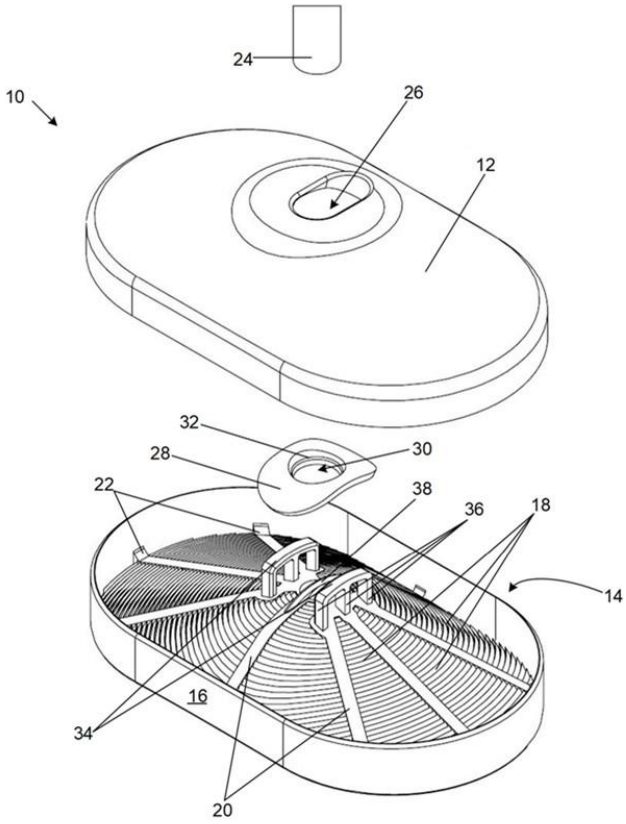
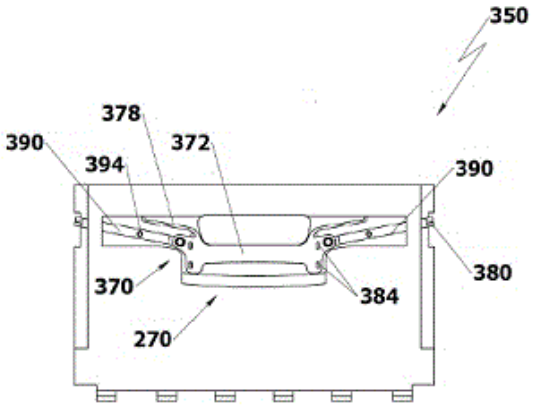


Fig. 10

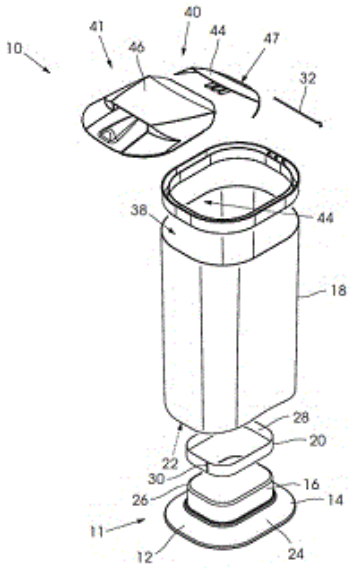
21: 2021/01136. 22: 2021/02/19. 43: 2023/04/05
51: A01G
71: NOVAP (PTY) LTD
72: NORTJE, Johannes Cornelius, NORTJE, Marinus
33: ZA 31: 2019/03179 32: 2019-11-21
33: ZA 31: 2020/00162 32: 2020-01-10
54: A DIFFUSION DEVICE, IRRIGATION SYSTEM AND METHOD
00: -
There is disclosed a diffusion device (10), an irrigation system (100) and an irrigation method (200). The diffusion device (10) comprises a body having a top (12), a base (14) and sides (16). The top is shaped to receive a fluid supply conduit (24) therethrough with an open end of the conduit directed onto the base (14). The base is inwardly domed and provided with a plurality of apertures (18) to permit the egress of fluid from the body and configured to prevent fluid being trapped, in use, between the base and sides.



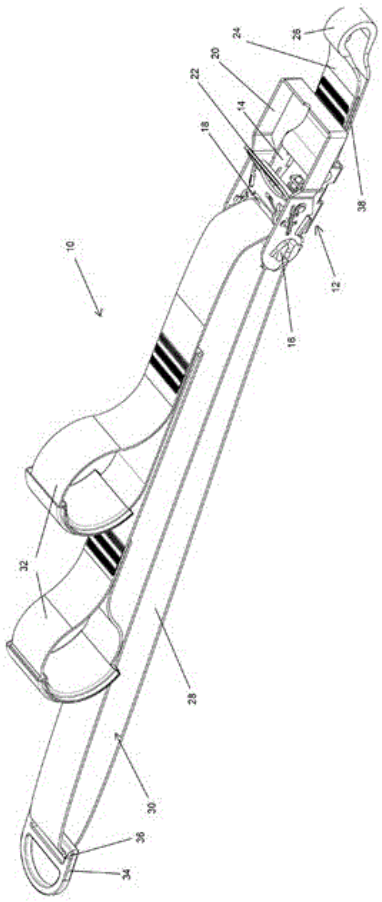
21: 2021/01141. 22: 2021/02/19. 43: 2023/04/11
51: B65D
71: BOBRITSKI, JAKOV
72: BOBRITSKI, JAKOV
33: RU 31: RU200468U1 32: 2020-02-21
54: LOCKING MECHANISM FOR FOLDABLE CRATES WITH HANDLE AND LATERALLY FACING BIASING MEMBERS
00: -
A foldable crate includes a base platform, a pair of longitudinal sidewalls forming a hinged connection with the base platform and a pair of flanking sidewalls forming a hinged connection with the base platform. The flanking sidewalls accommodate a locking mechanism, which includes an actuator, a transmission mechanism and a pair of locking elements, threaded into channels at the top portion of the flanking sidewalls.



21: 2021/01319. 22: 2021/02/26. 43: 2023/04/11
51: A01M
71: RAMAKONA SANITARY SERVICES (PTY) LTD, TSHWANE UNIVERSITY OF TECHNOLOGY
72: BALOYI, MARVIN, RAMARU, KHUMBELO
33: ZA 31: 2019/07853 32: 2019-11-27
54: A TRAP AND CONTAINER ARRANGEMENT
00: -
The invention relates to a trap for trapping arthropods. The trap includes a first member which has a first portion which is, in use, placed against, or mounted to, a support surface, and a second portion. The trap also includes a second member which is releasably mounted to the second portion. The trap further includes a trap arrangement which is secured/connected to the first member and/or the second member in such a manner that when an arthropod, in use, climbs from the support surface onto the first portion, it needs to cross the trap arrangement in order to climb onto the second member. The trap arrangement is configured to trap and/or incapacitate the arthropod when it crosses the trap arrangement. The second member may be a container, more specifically a garbage bin container.

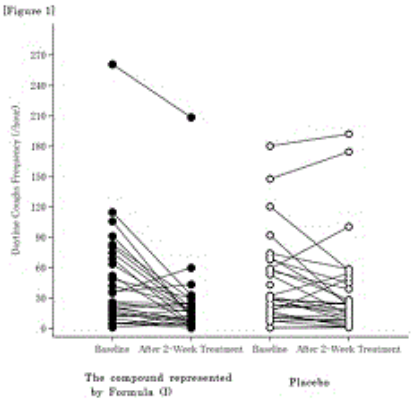


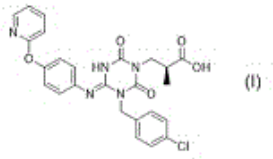
21: 2021/01516. 22: 2021/03/05. 43: 2023/06/09
51: A62B; A63B
71: DU TOIT, Johan, Paul
72: DU TOIT, Johan, Paul
33: ZA 31: 2020/02709 32: 2020-05-14
54: SNATCHER RATCHET RESCUE
00: -
The invention provides a device for lifting a person suspended from an anchor point to allow the person to be rescued after a fall. The device includes a ratchet type tie down having a body, a ratcheted wheel with a slit for receiving webbing there through, a ratchet lever and ratchet release; a length of connection webbing connected, at one end to the body of the tie down and provided with a connection point at its free end; a length of lifting webbing, connected at one end to the body of the tie down and threaded through the slit of the ratcheted wheel to provide a loop between the connection and the wheel and provided with one or two foot loops at its free end; and a floating D-ring on the loop.



21: 2021/01691. 22: 2021/03/12. 43: 2023/04/11
51: A23J; A23K; A23L
71: MARS, INCORPORATED
72: GARZINO, BENEDICTE, HOURS, MARIE-ANNE, CHARLES, HELENE, FILIPPINI, MATTHIEU
33: EP 31: 18201322.7 32: 2018-10-18
54: PET FOOD COMPOSITIONS FOR WEIGHT MANAGEMENT IN PETS WITH ADVERSE FOOD REACTION
00: -
The presently disclosed subject matter provides a hypoallergenic palatable composition. The composition includes at least about 25% of at least partially hydrolysed proteins and at least about 10% of crude fibers by weight, based on the total weight of dry matter of the composition. The composition can be used to achieve weight loss and/or weight management of pet animals affected with adverse food reactions (AFR), particularly cutaneous adverse food reactions (CAFR).

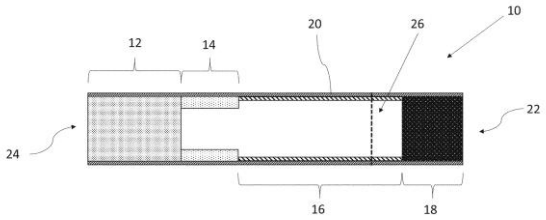
21: 2021/01756. 22: 2021/03/16. 43: 2023/04/11
51: A61K; A61P
71: SHIONOGI & CO., LTD.
72: TAMANO, RYUTA, KASAI, ERIKA, MIYAZAKI, SAYAKA, MAGARI, KATSUE
33: JP 31: 2019-173841 32: 2019-09-25
33: JP 31: 2018-189791 32: 2018-10-05
33: JP 31: 2019-044943 32: 2019-03-12
54: MEDICAMENT FOR THE TREATMENT OF CHRONIC COUGH
00: -
Provided is a pharmaceutical composition for treating chronic cough, which has substantially no side effects of taste disturbance. A pharmaceutical composition for treating chronic cough, comprising a compound represented by Formula (I): or a pharmaceutically acceptable salt thereof.



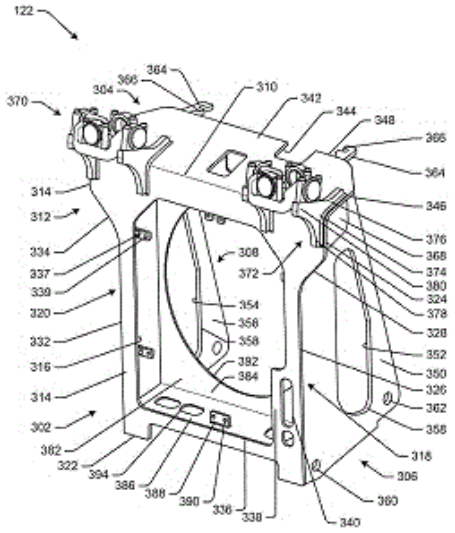


21: 2021/01962. 22: 2021/03/24. 43: 2023/05/15
51: A24D; A24F
71: PHILIP MORRIS PRODUCTS S.A.
72: UTHURRY, Jérôme
33: EP 31: 18214894.0 32: 2018-12-20
54: AEROSOL-GENERATING ARTICLE HAVING A VENTILATED CAVITY
00: -
An aerosol-generating article (10) for producing an inhalable aerosol when heated comprises: a rod of aerosol-generating substrate (12); a mouthpiece segment (18) comprising a plug of filtration material and arranged downstream of, and longitudinally aligned with, the rod (12); and a hollow tubular segment (16) between the rod (12) and the mouthpiece segment (18). The hollow tube segment

(16) is longitudinally aligned with the rod (12) and the mouthpiece segment (18), and defines a cavity extending all the way to an upstream end of the mouthpiece segment (18). The article (10) further comprises a ventilation zone (26) at a location along the hollow tubular segment (16) less than 18 millimetres from an upstream end of the hollow tubular segment (16). A thickness of a peripheral wall of the hollow tubular segment (16) is less than about 1.5 millimetre. The rod (12) of aerosol-generating substrate comprises at least an aerosol former, the rod (12) having an aerosol former content of at least about 10 percent on a dry weight basis. The aerosol- generating article has a ventilation level of at least about 10 percent.



21: 2021/02185. 22: 2021/03/31. 43: 2023/04/11
51: E02F; B60R
71: CATERPILLAR INC.
72: BEASLEY, CHRISTOPHER R, SCHOLZ, KELLY A, PRATER, ERIC M, NGO, VUONG DUC
33: US 31: 16/151,394 32: 2018-10-04
54: RADIATOR GUARD AND METHOD OF MAKING
00: -
A radiator guard (122) may include a front plate (302), a top plate (304), spaced side plates (306, 308), gussets (368), and yoke assemblies (370). The front plate (302) may have a varied profile such that a first lateral width proximate a top of the front plate (302) is greater than a second lateral width proximate a bottom of the front plate (302). The top plate (304) may be angled relative to the front plate (302) and the side plates (306, 308) may be fixed near the lateral sides of the front plate (302) such that portions of the front plate (304) proximate the top of the front plate (304) extend laterally outwardly from the side plates (306, 308). The gussets (368) may be disposed on the rear surface of the front plate (302) at these laterally extending portions and the yoke assemblies (370) may be disposed on the front surface of these portions.



21: 2021/02490. 22: 2021/04/15. 43: 2023/04/04
51: B01J; B01D
71: UNIVERSITEIT ANTWERPEN, LUREDERRA CENTRO TECNOLÓGICO, UNIVERSITÀ DEGLI STUDI DI PADOVA
72: OROZ MATEO, TAMARA, SALAZAR CASTRO, CRISTINA, FABRO, JESSICA, CANU, PAOLO, XIN, QI, COOL, PEGIE, MEYNEN, VERA, FERNÁNDEZ ACEVEDO, CLAUDIO, MARTINEZ DE MORENTIN OSABA, LUIS
33: EP 31: 18202982.7 32: 2018-10-26
54: AMMONIA DEPOSITION PRECIPITATION PROCESS FOR PRODUCING A COPPER-NICKEL/GAMMA-ALUMINA CATALYST, SAID CATALYST AND ITS USE IN THE CONVERSION OF EXHAUST GASES
00: -
A process for the production of a catalyst comprising the steps of: dissolving the requisite quantities of copper nitrate and nickel nitrate in de-ionised water to provide a sub-0.30 molar aqueous solution of copper nitrate and nickel nitrate together in the ratio required; providing an ammoniacal solution by adding concentrated aqueous solution of ammonia in a quantity equal to between six and ten times the quantity required to realise both a 1:6 molar ratio for $Cu^{2+}$to ammonia and a 1:6 molar ratio for $Ni^{2+}$to ammonia; loading gamma alumina with 1 to 30% w/w of copper and nickel in a weight ratio of nickel to copper of 1:5 to 2:1 by suspending the requisite quantity of gamma alumina in said ammoniacal

solution to achieve the required loading of copper and nickel; stirring the resulting gamma alumina suspension for at least 4h at room temperature; then the volatile components evaporate under ambient conditions leaving dry loaded gamma alumina, which is calcined at a temperature of at least 260°C for at least 30 min with a constant heating up rate; a catalyst or catalyst mixture, the catalyst or each catalyst in the catalyst mixture being obtainable by the above-mentioned process; and the use of the catalyst or catalyst mixture for the conversion of exhaust gases from an internal combustion engine into carbon dioxide, water and nitrogen.

21: 2021/02573. 22: 2021/04/19. 43: 2023/05/11
51: C10L
71: SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V.
72: GRIFFITHS, Claire, SMITH, Alastair, Graham, BERA, Tushar, SOUTHBY, Mark, Clift
33: US 31: 62/771,392 32: 2018-11-26
54: FUEL COMPOSITIONS
00: -
A fuel composition comprising a base fuel and at least one viscosity index (VI) improving additive, wherein the viscosity index (VI) improving additive is a functionalized dispersant olefin copolymer. The viscosity index (VI) improving additive provides improved power output and/or acceleration characteristics.

21: 2021/02908. 22: 2021/04/30. 43: 2023/04/04
51: F42D; E21B
71: RIPLOG (PROPRIETARY) LIMITED
72: DHOOGE, RYAN
54: LINER DISPENSING HOUSING
00: -
A blasthole liner 32 dispensing housing 10, a blasthole liner arrangement 12 and a method of lining a blasthole 44, which housing 10 comprises a support portion 16 in the form of a footing for supporting the housing 10 relative to a surface 18. The housing 10 also includes at least a first side structure 20 extending from the support portion 16 and a shaft 30 extending from the side structure 20 for receiving a roll of liner 14 in use. The liner 14 typically comprises an extruded material comprising low-density polyethylene (LDPE) or HDPE, a co-extrusion of different materials, or a woven fabric.

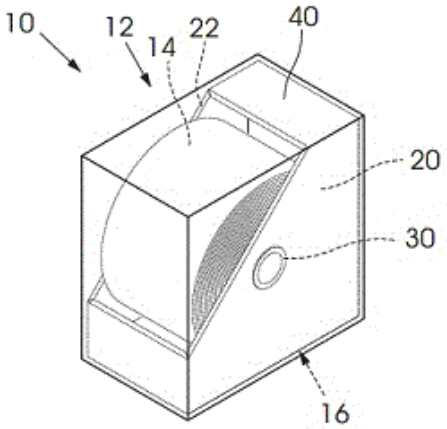
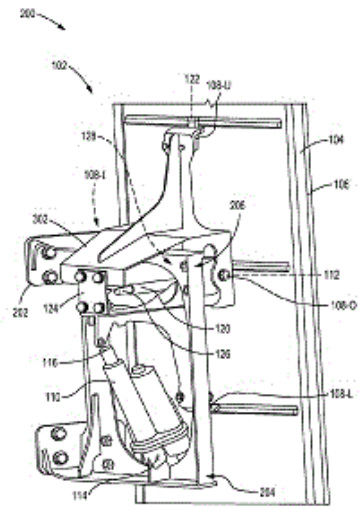
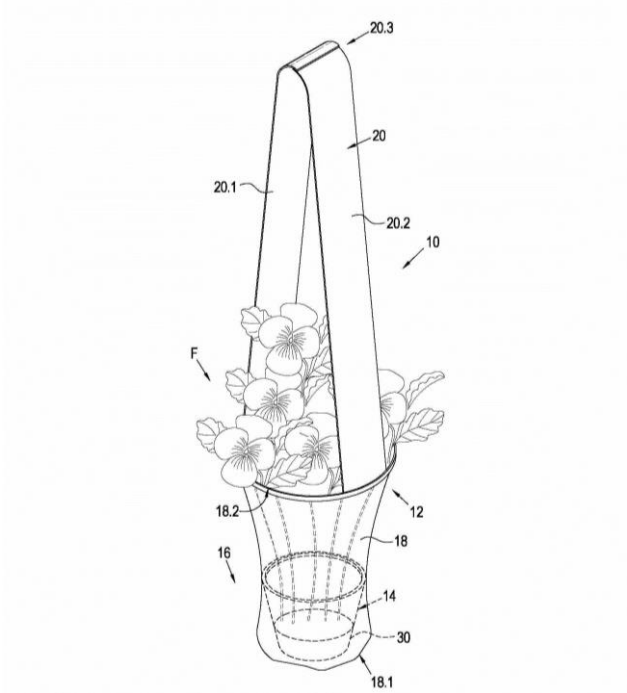


Fig. 1 10

21: 2021/03001. 22: 2021/05/04. 43: 2023/04/04
51: B60R
71: CATERPILLAR INC.
72: SEITZ, KRIS E
33: US 31: 16/186,152 32: 2018-11-09
54: ADJUSTABLE MIRROR ASSEMBLY FOR A WORK MACHINE
00: -
In accordance with one aspect of the present disclosure an adjustable mirror assembly for a work machine is disclosed. The adjustable mirror assembly includes a support bracket adapted to be attached to the work machine and an intermediate bracket. The intermediate bracket interfaces with a back surface of a mirror and with the support bracket. The adjustable mirror assembly includes a first linear actuator for rotating the mirror about a pitch axis. The first linear actuator to rotate the mirror about a pitch axis attaches to the support bracket and to the intermediate bracket. A second linear actuator to rotate the mirror about a yaw axis is attached to a point fixed to the intermediate bracket and to the back surface of the mirror.



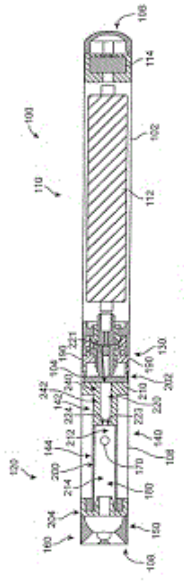
21: 2021/03018. 22: 2021/05/05. 43: 2023/04/25
51: B65D
71: CAMMINGA, Mornay Glynn, CAMMINGA, Eelco
72: CAMMINGA, Mornay Glynn
33: ZA 31: 2020/02431 32: 2020-05-05
54: AN ORGANIC MATERIAL TRANSPORT SYSTEM AND KIT
00: -
This invention relates to an organic material transport system, bag and kit, and a receptacle kit for use with organic material, for example, flowers. The invention conveniently provides a means in which flowers cut at their stems may be transported in a manner in which the freshness thereof is maintained. Generally, the system comprises a transport bag, a receptacle, and an amount of nutrient composition in the form of a nutrient hydrogel or a nutrient mixture which is mixable with an amount of fluid, in use, to form a nutrient composition in the form of a nutrient hydrogel. Free ends of the cut flowers, particularly the stems thereof are locatable in the hydrogel, in use, so as to provide the flowers with necessary nutrients during transport thereof. In this way, the life of the flowers are preserved and extended.



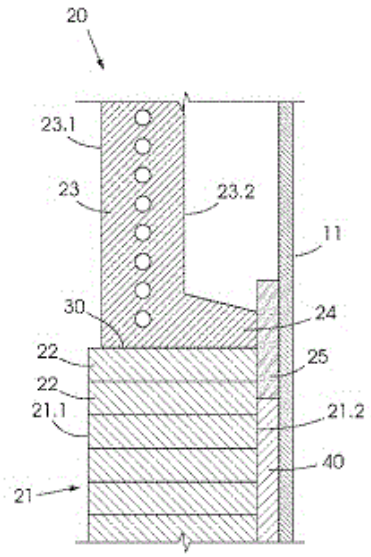
21: 2021/03146. 22: 2021/05/10. 43: 2023/04/11
51: A61K; A61Q
71: UNILEVER GLOBAL IP LIMITED
72: ZHOU, RONGRONG, MENDOZA FERNANDEZ, CESAR ERNESTO, BARFOOT, RICHARD JONATHAN, COOKE, MICHAEL JAMES, GILES, COLIN CHRISTOPHER DAVID, GUTIERREZ-ABAD, RAQUEL, KELSO, HAILEY
33: EP 31: 18214091.3 32: 2018-12-19
54: HAIR CONDITIONING COMPOSITION FOR IMPROVED DEPOSITION
00: -
A composition comprising: (i) 0.01 to 10 wt % of a linear, cationic conditioning surfactant; (ii) 0.1 to 10 wt % of a linear fatty material; (iii) a particulate benefit agent; (iv) 0.01 to 5 wt %, at 100 % active, of a branched cationic co-surfactant, as defined by structure (1) wherein: - $R_1$and R_2comprise linear or branched alkyl chains, that are saturated or non-saturated, with carbon-carbon chain lengths of from $C_2$to C_{32}, preferably C_8-$C_{20}$and that optionally comprise at least one group selected from an ester group, an amide group and an ether group; - R_3comprises an alkyl chain having a carbon-carbon chain length of from $C_1$to C_4, preferably $C_1$to C_2; - R_4comprises a proton or an alkyl chain having a carbon-carbon chain length of from $C_1$to C_4, preferably $C_1$to C_2; and - X is an organic or inorganic anion; wherein the molar ratios of branched cationic co-surfactants (iv) to linear cationic surfactants (i)

are in the range of from 1:20 to 1:1, preferably from 1:10 to 1:1, most preferably 1:5 to 1:2, results in improved benefit agent deposition onto hair; wherein, where R1 and R2 comprise one or more linear alkyl chains, at least one linear alkyl chain has a carbon-carbon chain length of from $C_1$to C_{14}; wherein the compositions have a viscosity of from 5,000 to 750,000 centipoise, preferably from 50,000 to 600,000 centipoise, more preferably from 50,000 to 450,000 as measured at 30°C on a Brookfield RVT using a Spindle A or B at 0.5 rpm for 60 seconds.

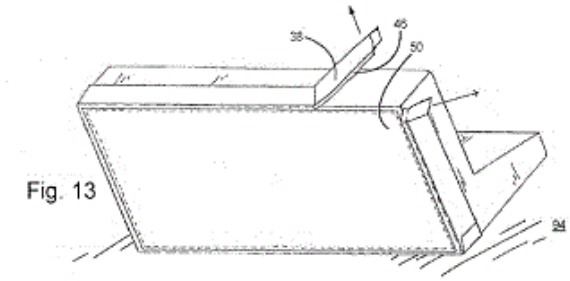
21: 2021/03415. 22: 2021/05/20. 43: 2023/04/04
51: A24F
71: ALTRIA CLIENT SERVICES LLC
72: JANARDHAN, SRINIVASAN, HAWES, ERIC, PITHAWALLA, YEZDI B
33: US 31: 61/857,931 32: 2013-07-24
54: ELECTRONIC SMOKING ARTICLE WITH ALTERNATIVE AIR FLOW PATHS
00: -
A first e-vaping section which comprises a first housing, a reservoir in the first housing, a heater and wick arrangement, a connector on a first end of the first e-vaping section, an electrical terminal held within the connector, an annular seal and a flow restrictor. The first housing at least partially defines at least one inlet configured to allow air to be drawn into and through an airflow path defined within the first e-vaping section. The reservoir is configured to contain a pre-vapor formulation. The heater and wick arrangement is in fluid communication with the reservoir and the airflow path, and is configured to volatilize the pre-vapor formulation to produce a vapor. The annular seal is in fluid communication with the at least one inlet and defines a first air passage of the airflow path. The flow restrictor is held by the annular seal and defines a second air passage of the airflow path. The flow restrictor is configured to provide a desired resistance-to-draw (RTD) for the first e-vaping section. The annular seal encompasses the flow restrictor.



21: 2021/03510. 22: 2021/05/24. 43: 2023/04/04
51: F27B; F27D
71: TENOVA SOUTH AFRICA (PTY) LTD
72: DE VILLIERS, GERRIT, JOUBERT, HUGO, MCDOUGALL, ISOBEL
33: ZA 31: 2018/07961 32: 2018-11-26
54: LINING AND COOLING ARRANGEMENT FOR A METALLURGICAL FURNACE
00: -
This invention relates to a lining and cooling arrangement for a metallurgical furnace. The arrangement includes a layer of refractory bricks located adjacent a furnace shell of the furnace, the layer of refractory bricks having a hot side that faces the inside of the furnace, and a cold side that faces the furnace shell. The arrangement also includes a cooling element located on top of the layer of refractory bricks, the cooling element having a hot side that faces the inside of the furnace, and a cold side that faces the furnace shell. A contact interface is defined between the top of the layer of refractory bricks and a bottom of the cooling element, and a containment ring, covering the contact interface, is located adjacent the cold sides of the cooling element and the layer of refractory bricks.

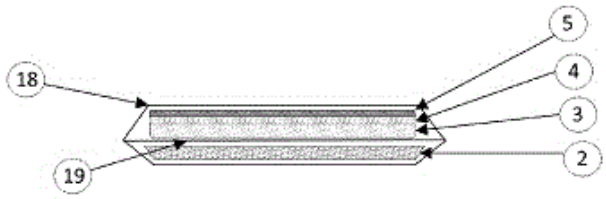


21: 2021/04406. 22: 2021/06/25. 43: 2023/04/11
51: A47C; B68G
71: ASHLEY FURNITURE INDUSTRIES, LLC
72: ROBINSON, JEREMY
33: US 31: 62/799,625 32: 2019-01-31
54: PROTECTIVE TRAY WITH AN INTEGRATED DUST COVER FOR A SOFA
00: -
An upholstered sofa sits in a protective tray with an integrated dust cover. The protective tray attached to a wood frame of the sofa around a frame opening at a dust cover portion of the protective tray. The tray having a separable juncture between an edge portion of the dust cover portion and the portions of the protective tray surrounding the dust cover portion, whereby portions of the tray surrounding the dust cover portion may be removed at a retail sales location or a user's home. The protective tray with the integrated dust cover is semi-rigid and may be attached robotically at the manufacturer's facility.



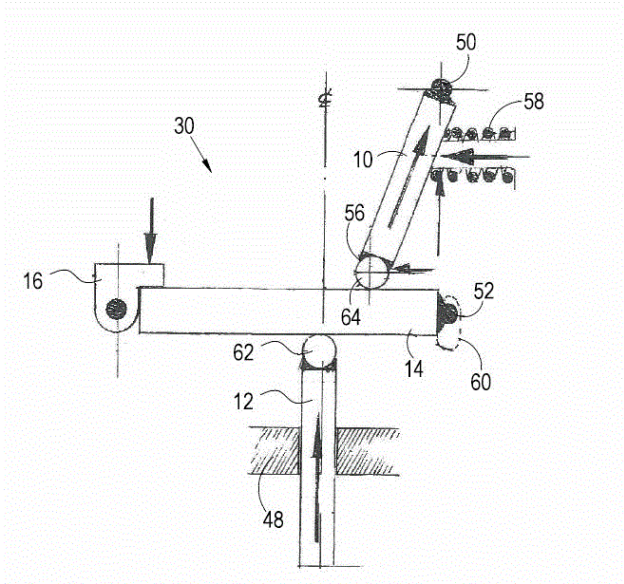
21: 2021/04451. 22: 2021/06/28. 43: 2023/04/11
51: A21D
71: YAE, LLC
72: FISCHMANN, FERNANDO BENJAMIN
33: US 31: 62/773,843 32: 2018-11-30
54: PIZZA PRODUCT, PACKAGING FOR A PIZZA PRODUCT, AND METHOD OF COOKING AND DISTRIBUTION FOR A PIZZA PRODUCT
00: -
This invention relates to a pizza product that is prepared separately utilizing two types of doughs that are combined after heating. The doughs have different characteristics and are heated in combination with different ingredients. The heating process for both doughs is performed under different humidity conditions and may be performed simply with a conventional microwave oven. The present invention also includes an apparatus and method for the preparation of such pizzas, as well as an innovative delivery process, which allows delivery of the pizzas from a central delivery station - without the need of having one or more processing locations (e.g., a chain of physical stores) to prepare and/or cook the pizza product.

Figure 5 – Side Embodiment of Packaging



21: 2021/04498. 22: 2021/06/29. 43: 2023/05/08
51: C07D; A61P
71: Pfizer Inc.
72: SAMAS, Brian, CLARK, Wesley
33: US 31: 62/795,631 32: 2019-01-23
33: US 31: 62/872,802 32: 2019-07-11
54: POLYMORPH FORM OF A MONOPHOSPHATE HYDRATE SALT OF A KNOWN TETRAHYDROISOQUINOLINE DERIVATIVE
00: -
This invention relates to crystalline (1S,2S,3S,5R)-3-((6-(difluoromethyl)-5-fluoro-1,2,3,4-tetrahydroisoquinolin-8-yl)oxy)-5-(4-methyl-7H-pyrrolo[2,3-d]pyrimidin-7-yl)cyclopentane-1,2-diol monophosphate hydrate, and to compositions and therapeutic uses thereof.

21: 2021/04937. 22: 2021/07/14. 43: 2023/04/12
51: E21D
71: ANGELOS, Komninos George, LAWRENCE, Allen Preston
72: LAWRENCE, Allen Preston
33: ZA 31: 2019/06747 32: 2020-04-14
54: QUICK RELEASE ARRANGEMENT FOR TEMPORARY FACE PROPS
00: -
A quick release arrangement for a temporary face prop is provided, the quick release arrangement comprising a vertical lower load bearing support element slidably accommodated within a fixed guide fitted to the inside of the temporary face prop; an upper support element, an upper end of which is pivotally mounted to a side wall of the temporary face prop with a first pivot; a substantially horizontal plate section interposed between the top of the lower load bearing support element and the bottom of the upper support element, when the quick release arrangement is in a preloaded condition. The plate section has a first end proximate a lower end of the upper support element, the first end of the interposed plate section being pivotally mounted to a side wall of the temporary face prop with a second pivot. A movable latch maintains the quick release arrangement in the preloaded condition.



21: 2021/05061. 22: 2021/07/19. 43: 2023/05/15
51: A23L; A24B
71: PHILIP MORRIS PRODUCTS S.A.
72: SILVESTRINI, Patrick, Charles, BIASIOLI, Matteo, FARINE, Marie, FRAUENDORFER, Felix, KUC, Jagoda, LANASPÈZE, Sébastien, LAUENSTEIN, Stefan, MIVELAZ, Benoît, RAPHOZ, Christel, TZIMOULIS, Steve
33: EP 31: 19178548.4 32: 2019-06-05
54: LIQUID TOBACCO EXTRACT, METHOD FOR MAKING AND AEROSOL-GENERATING ARTICLES COMPRISING SUCH
00: -
The present invention provides a liquid tobacco extract comprising a high ratio of desired compounds to undesired compounds. The liquid tobacco extract comprises a non-aqueous solvent, at least 0.2 percent by weight nicotine based on the weight of the liquid tobacco extract, and a ratio by weight of (ß-ionone + ß-damascenone) to (phenol) of greater than 0.25. There is also provided a liquid tobacco extract prepared by a method comprising the steps of heating a tobacco starting material at an extraction temperature of between 100 degrees Celsius and 160 degrees Celsius for at least 90 minutes; collecting the volatile compounds released from the tobacco starting material during the heating step; and forming a liquid tobacco extract comprising the collected volatile compounds

21: 2021/05429. 22: 2021/07/30. 43: 2023/04/17
51: G01N; G02B; G06T
71: TECHCYTE, INC.
72: CAHOON, Benjamin, SWENSON, Shane, LARSON, Benjamin, S.
33: US 31: 62/794,487 32: 2019-01-18
33: US 31: 62/810,850 32: 2019-02-26
54: PRINTED COVERSLIP AND SLIDE FOR IDENTIFYING REFERENCE FOCAL PLANE FOR LIGHT MICROSCOPY
00: -
Systems, methods, and devices for identifying a reference focal plane in connection with light microscopy. A method includes identifying a fiducial marker printed on a surface of a coverslip or a slide used in connection with optical microscopy. The method includes focusing the optical microscope on the fiducial marker to calculate a focal distance of the fiducial marker. The method includes calculating a reference focal plane defining the surface of the coverslip or the slide based on the focal distance of the fiducial marker.

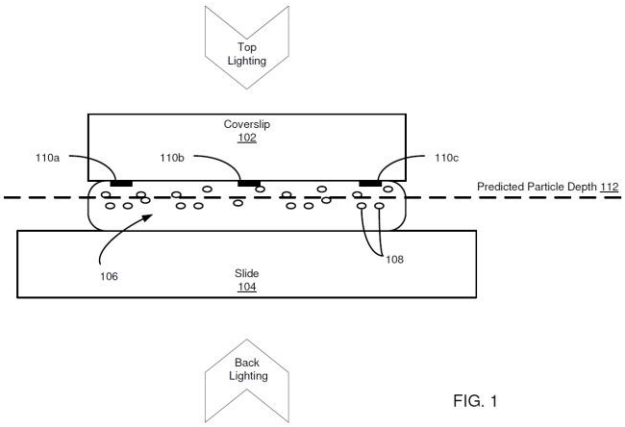
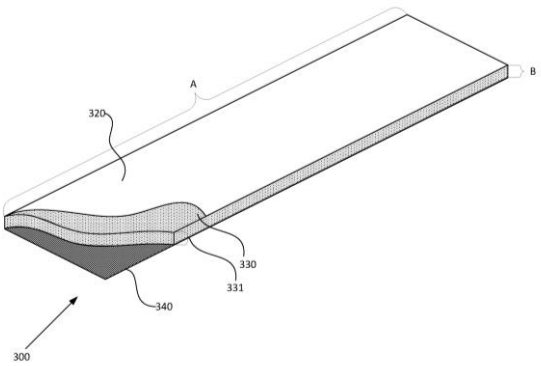
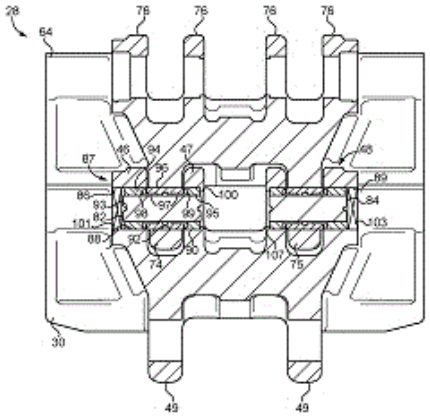


FIG. 1

21: 2021/05439. 22: 2021/07/30. 43: 2023/04/11
51: B32B
71: GOLCONDA HOLDINGS, LLC
72: LEBLANC, Shane S.
33: US 31: 62/787,085 32: 2018-12-31
33: US 31: 16/732,174 32: 2019-12-31
54: SYSTEMS AND METHODS FOR PRODUCING DURABLE, DIMENSIONALLY STABLE, EXTRUDED SHEET GOODS HAVING A DESIRED SPECIFIC GRAVITY
00: -
The present invention provides a system, method, and apparatus for producing a dimensionally stable extruded board product for use in surface coverings. The board product may be a basalt casting powder-based product for use as a substrate for wall or other surface coverings or may be used as a core layer in a modular floor covering unit. The modular floor covering unit comprises multiple layers. The layers are a thin cut stone veneer layer, a core layer with a density similar to that of the thin cut stone veneer layer, and an optional magnetically receptive underlayment layer. Other layers or combinations of layers may also be used.

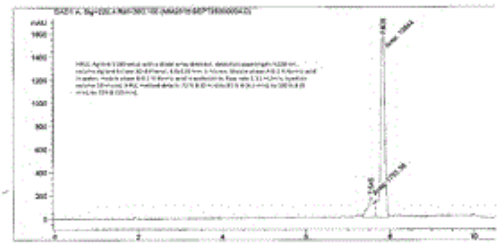


21: 2021/05563. 22: 2021/08/06. 43: 2023/04/04
51: B62D
71: CATERPILLAR INC.
72: JONES, BENJAMIN I, ELLMANN, THOMAS, OERTLEY, THOMAS E
33: US 31: 16/269,244 32: 2019-02-06
54: TRACK JOINT ASSEMBLY IN MACHINE TRACK HAVING PIN STOP FOR CARTRIDGE PIN RETENTION
00: -
A track joint assembly (28) includes a first track shoe (30) and a second track shoe (64), and a cartridge pin (82) coupling together the first track shoe (30) and the second track shoe (64). A sealed and lubricated track joint (87) is formed by pin lugs (46,47) on the first and the second track shoes (30,64), a cartridge pin (82), a pin retainer (101), a pin bore (86) extending through pin lugs of the coupled-together track shoes, and a pin stop (100) located in one of the pin lugs (46,47) to inhibit displacement of the cartridge pin (82).

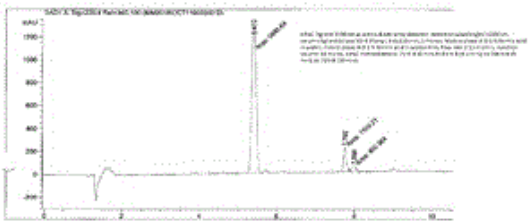


21: 2021/05578. 22: 2021/08/06. 43: 2023/04/04
51: A61K; B01J; C07C
71: ARIELIUM HEALTH, LLC, NIVOROZHKIN, ALEX
72: NIVOROZHKIN, ALEX
33: US 31: 62/791,122 32: 2019-01-11
54: NOVEL METHODS AND RELATED TOOLS FOR CBD CONVERSION TO THC
00: -
The present invention is directed to methods of producing THC from CBD utilizing non-harsh methodology and resulting in substantially increased yields, as well as devices built upon these novel methods. The methods and devices are material efficient, and in certain embodiments, solvent-free. In particular, in certain embodiments, these methods

and related devices are suitable for commercial production of THC from CBD. Furthermore, in certain embodiments, the present invention provides methods of producing THC from CBD in manner that affords tunability to select the ratio of THC -8 to THC-9.

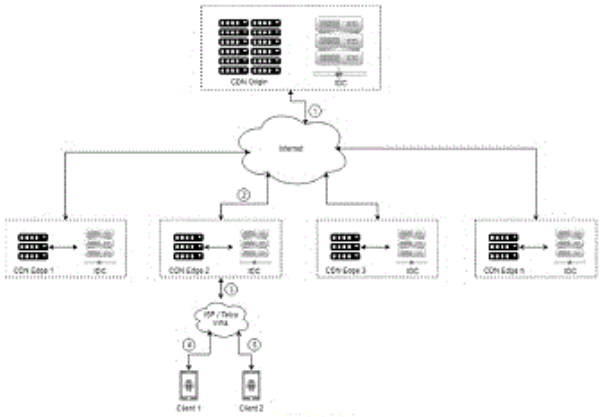


Panel A

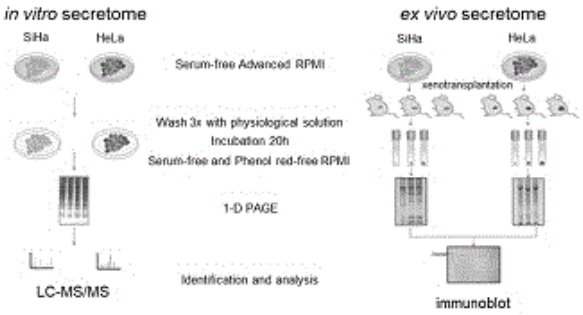


Panel B

21: 2021/05579. 22: 2021/08/06. 43: 2023/04/03
51: G06Q; H04L
71: MARGO NETWORKS PVT. LTD.
72: PARANJPE, ROHIT, BARARIA, RIPUNJAY, GORADIA, DEVANG
33: IN 31: 201921000982 32: 2019-01-09
54: CONTENT DELIVERY NETWORK SYSTEM AND METHOD
00: -
A CDN system and method to provide access and a better user experience based on a novel CDN architecture wherein each edge server may be outside of an Internet data center, may be stationary or mobile, may be intermittently connected to the multi-tiered content delivery network, may be connected to a last mile over Wi-Fi and may be physically located in a place of interest.



21: 2021/05583. 22: 2021/08/06. 43: 2023/04/03
51: G01N
71: TIMSER, S.A.P.I. DE C.V.
72: CHECA ROJAS, ALBERTO, SANTILLÁN GODÍNEZ, ORLANDO, DOMÍNGUEZ PALESTINO, RAÚL
33: MX 31: MX/A/2019/005940 32: 2019-05-21
54: METHODS OF DIAGNOSING AND TREATING CERVICAL CANCER
00: -
The present invention is related to diagnostic tests or rapid detections of various different types of cancer, especially cervical cancer and precancerous lesions. Especially, the invention relates to specific and useful protein biomarkers for the detection of said diseases, and methods for determination and detection of said biomarkers.

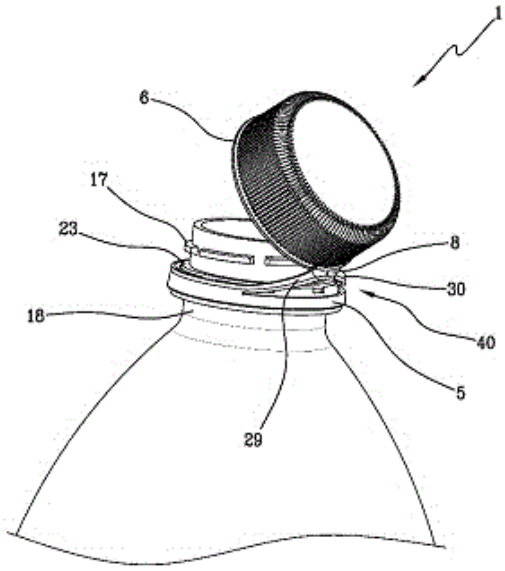


21: 2021/05584. 22: 2021/08/06. 43: 2023/04/03
51: B65D
71: SACMI COOPERATIVA MECCANICI IMOLA SOCIETÀ COOPERATIVA
72: FALZONI, ALESSANDRO, MAZZOTTI, MARCO, SPADONI, CRISTIAN, SOZZI, MARCO
33: IT 31: 102019000001383 32: 2019-01-30
33: IT 31: 102019000001381 32: 2019-01-30
33: IT 31: 102019000012534 32: 2019-07-22

54: A CAP FOR CLOSING A CONTAINER, A COMBINATION OF A CAP AND A NECK

00: -

A combination comprises a cap (1; 201) for a container and a neck (18; 218) of a container. The neck (18; 218) is delimited by an outer surface (219) from which a circular enlargement (23; 223) projects, the outer surface (219) extending up to a rim (220) of the neck (18; 218). The cap (1; 201) comprises a side wall (2) extending about an axis (Z). A separation line (4) is provided on the side wall (2) for defining a retaining ring (5) intended to engage with the circular enlargement (23; 223) to remain anchored to the neck (18; 218) of the container and a closure element (6) removably engageable with the neck (18; 218) so as to be movable between a closed position and an open position. The separation line (4) extends about the axis (Z) and is circumferentially interrupted so as to leave a joining portion (8) between the retaining ring (5) and the closure element (6). The cap (1; 201) further has an incision line (21) which extends transversally to the axis (Z) between the separation line (4) and a free edge (16) of the retaining ring (5), so that two connecting bands (29, 30) are defined between the separation line (4) and the incision line (21), the connecting bands joining the retaining ring (5) to the joining portion (8). The connecting bands (29, 30) are deformable for allowing the joining portion (8) to rotate when the closure element (6) is moved from the closed position to the open position, so that an edge (50) of the joining portion (8) which, in the closed position, faces the retaining ring (5), is facing towards the rim (220) of the neck (18; 218) in the open position.

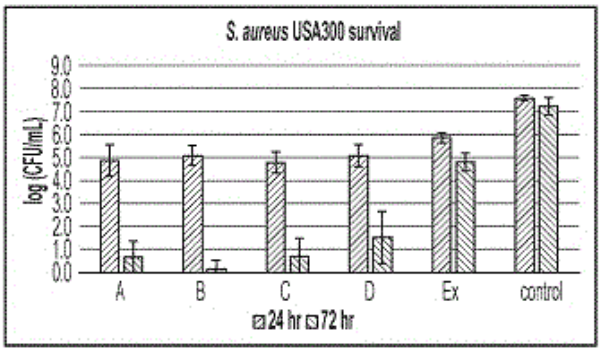


21: 2021/05586. 22: 2021/08/06. 43: 2023/04/12
51: A61K
71: INNOVACORIUM, INC.
72: BUZZI, MARCELO
33: US 31: 62/791,005 32: 2019-01-10

54: PHARMACEUTICAL DELIVERY COMPOSITIONS AND USES THEREOF

00: -

In some aspects, the disclosure relates to compositions and methods for skin repair and regeneration. In some embodiments, compositions described by the disclosure comprise natural products (e.g., extracts) combined with biotechnological excipient systems, such as bio surfactants, suitable for the repair of compromised skin, such as mucosal tissue (e.g., oral mucosal tissue).



21: 2021/05645. 22: 2021/08/10. 43: 2023/04/11
51: E21B; F16B

71: YAO, JAMES JING
72: YAO, JAMES JING
33: US 31: 16/268,677 32: 2019-02-06
54: THREADED COUPLING FOR PERCUSSION DRILL BIT
00: -
An internally threaded bit for percussion drilling is provided, which has thread roots wider than the thread crests. The bit exhibits a reduced rate of ringing off, and can accept drill rods having a range of crest widths.

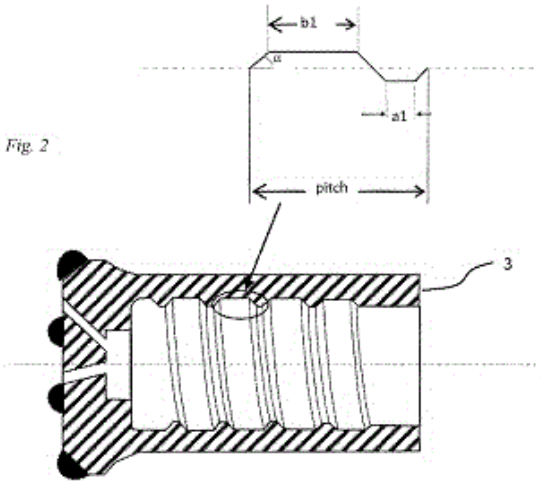
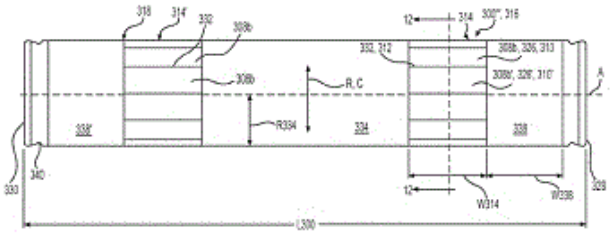
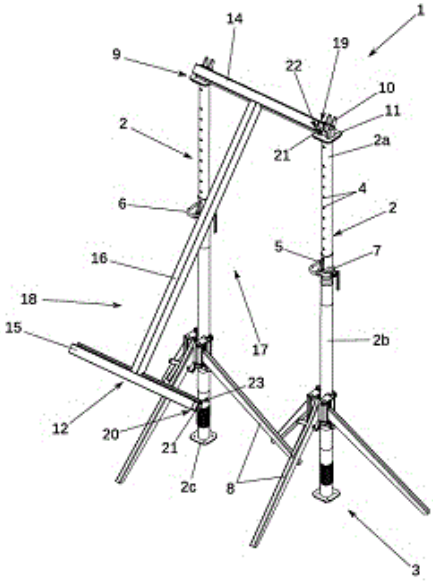


Fig. 2

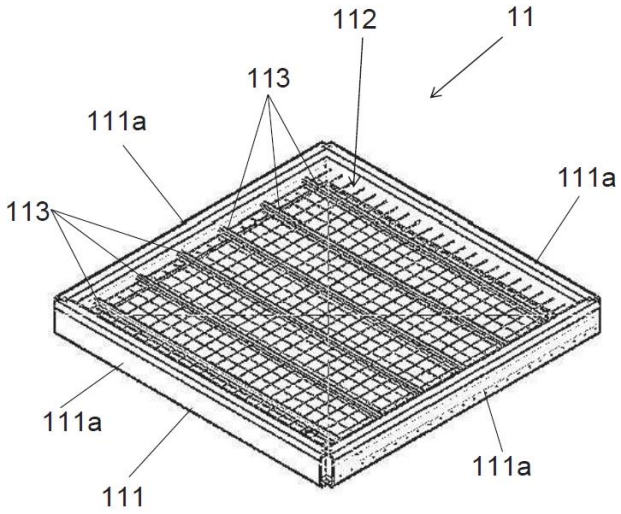
21: 2021/05677. 22: 2021/08/11. 43: 2023/04/11
51: B62D
71: CATERPILLAR INC.
72: MCKINLEY, TIMOTHY A, HU, ZHIYONG, TIAN, WEIXUE, BAAR III, WILLIAM H
33: US 31: 15/633,081 32: 2017-06-26
54: LOBED TRACK PIN
00: -
This invention concerns a track bushing for use with a track chain assembly of a vehicle that includes a plurality of track pins and bushings. The track bushing comprises a body including a generally cylindrical annular configuration defining an axis of rotation, a circumferential direction and a radial direction. The body defines a first end, a second end and a bore with an inner cylindrical surface extending from the first end to the second end. The inner cylindrical surface includes a first lobed portion comprising a first convex arcuate segment, a second convex arcuate segment and a concave arcuate segment joining the first convex arcuate segment to the second convex arcuate segment tangentially. The invention further concerns a track chain assembly for use with a vehicle that includes an endless track drive.



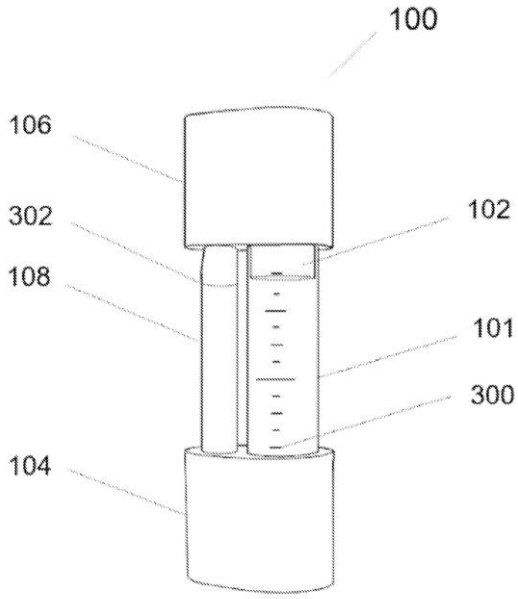
21: 2021/05762. 22: 2021/08/04. 43: 2023/04/03
51: E04G
71: DOKA GMBH
72: BARON, CHRISTOPH, SCHAGERL, PHILIPP
33: EP 31: 19159607.1 32: 2019-02-27
54: FORMWORK FRAME, FORMWORK ELEMENT, CEILING FORMWORK AND METHOD
00: -
The invention relates to a formwork frame (12) for a formwork element (13) of a ceiling formwork (1), comprising: a first cross-support (14); a second cross-support (15); a connecting piece (16) which is longer in comparison to the first (14) and second cross-support (15), which is arranged substantially perpendicular to the first (14) and second cross-support (15), and which connects the first cross-support (14) to the second cross-support (15); a first lateral recess (17) on the one longitudinal side of the formwork frame (12); and a second lateral recess (18) on the other longitudinal side of the formwork frame (12).



21: 2021/05865. 22: 2021/08/17. 43: 2023/04/11
51: E04G
71: THREE G METAL FABRICATIONS LTD
72: BAINS, Gurdip Singh
33: GB 31: 2012913.6 32: 2020-08-18
33: GB 31: 2108837.2 32: 2021-06-18
33: GB 31: 2111705.6 32: 2021-08-16
54: MODULAR PLATFORM SYSTEM COMPONENTS AND TOOLS
00: -
A support member and bracket for a modular decking system, wherein the support member includes at least one securing location at which the bracket is securable to the support member, and the bracket includes: one or more hooks configured to be received by one or more hook apertures of the securing location; and a pair of side walls and a further wall defining a tapering slot for receipt of a fin of a decking member or beam.

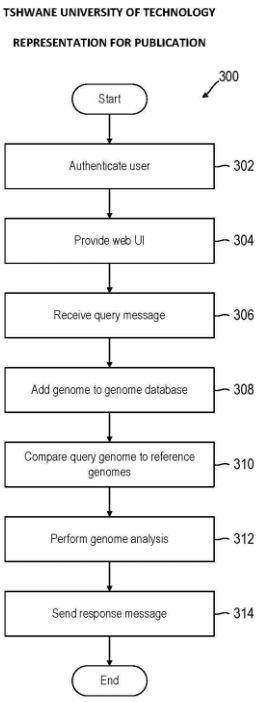


21: 2021/05873. 22: 2021/08/17. 43: 2023/05/17
51: A24F; B05C; B65D
71: HIGHT, Myra
72: HIGHT, Myra
33: US 31: 62/807,358 32: 2019-02-19
54: STORAGE CONTAINER AND DISPENSER
00: -
A viscous concentrate dispensing device includes a storage container tube configured to hold a viscous concentrate, a first cap configured to fit over a first end of the storage container tube, and a second cap configured to fit over a second end of the storage container tube. The first and second cap hold the storage container tube in place for storage and seal the viscous concentrate within the storage container tube. A plunger is configured to fit in the first cap and the second cap and hold the plunger in place for storage. A seal is disposed within the storage container tube for extruding the viscous concentrate when a force is applied with the plunger to depress the seal.

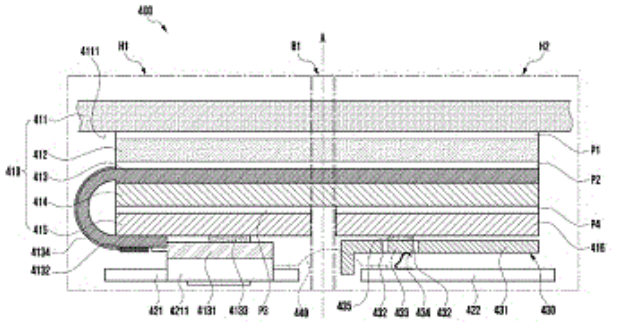


21: 2021/05921. 22: 2021/08/18. 43: 2023/04/05
51: G06Q; G16B; G16H
71: Tshwane University of Technology
72: MOMBA, Maggy Ndombo Benteke, EKWANZALA, Mutshiene Deogratias
33: ZA 31: 2020/04797 32: 2020-08-03
54: A COMPUTER-IMPLEMENTED GENOME TRACKING METHOD AND SYSTEM
00: -
A computer-implemented genome tracking method includes receiving, via a communications interface communicatively coupled to a computer processor, a query message from a client terminal indicative of at least a query location and a query genome and interrogating, by a genome analysis module provided by the computer processor, a genome database which comprises at least a plurality of reference genomes and associated reference locations. The method then includes determining, by the genome analysis module, whether at least one of the plurality of reference genomes matches the query genome; generating, by the genome analysis module, in response to a determination of a least

one of the plurality of reference genomes matching the query genome, a positive response message comprising details of the matching reference genome and associated reference location; and sending, via the communication interface, the positive response message to the client terminal.

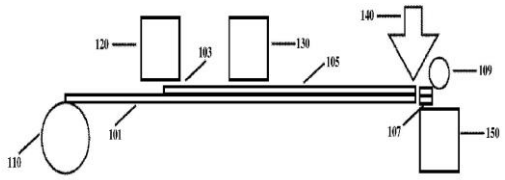


21: 2021/05973. 22: 2021/08/19. 43: 2023/04/11
51: G09F; G06F
71: SAMSUNG ELECTRONICS CO., LTD.
72: AN, JUNGCHUL, PARK, JAEHWAN, SEO, CHANGYONG, CHOI, SEUNGKI
33: KR 31: 10-2019-0019344 32: 2019-02-19
54: FOLDABLE ELECTRONIC DEVICE INCLUDING INTEGRATED GROUND STRUCTURE
00: -
An electronic device includes first and second housings rotatably coupled with each other through a hinge, thereby being in a folded state or an unfolded state. The electronic device further includes first and second printed circuit boards (PCBs) disposed in the first and second housings, respectively, and at least one wiring member electrically connecting the first and second PCBs. The electronic device further includes a window disposed over the first and second housings and the hinge, and a display disposed under the window. The display includes a display panel extending in the first housing and having a first FPCB electrically connected to a ground of the first PCB. The display includes a polymer member, a first conductive member disposed in the first housing and electrically connected to the first FPCB, and a second conductive member disposed in the second housing. The electronic device further includes a supporting member disposed between the second conductive member and the second PCB in the second housing. The second conductive member is electrically connected to the second PCB through a conductive region of the supporting member and electrically connected to the ground of the first PCB through the wiring member.



21: 2021/06007. 22: 2021/08/20. 43: 2023/05/08
51: C09J; G09F
71: Avery Dennison Corporation, a corporation organised and existing under the laws of the State of Delaware
72: MALLYA, PRAKASH, EDWARDS, David
33: US 31: 16/253,145 32: 2019-01-21
33: US 31: 62/806,812 32: 2019-02-16
54: IN-LINE PRODUCTION OF LINERLESS LABELS
00: -
A label laminate comprising a filmic or a paper substrate, said substrate having a first surface and a second surface; a pressure sensitive adhesive (PSA) layer, said PSA layer being tacky and having a first surface and a second surface, the first surface of the PSA being in contact with the second surface of the substrate; and a detack layer on top of the second surface of the PSA layer, said detack layer having a melting point above about 50C, wherein the detack layer has a surface coverage of less than 100% of the second surface of the PSA layer.

FIG. 1

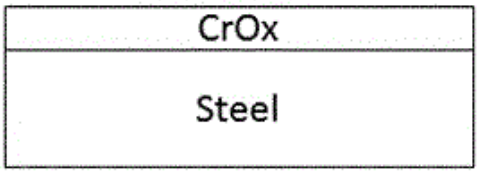


21: 2021/06066. 22: 2021/08/23. 43: 2023/04/11
51: C25D
71: TATA STEEL IJMUIDEN B.V.
72: WIJENBERG, JACQUES HUBERT OLGA JOSEPH, DE VOOYS, ARNOUD CORNELIS ADRIAAN, LITZ, MARK WILLEM
33: EP 31: 19209861.4 32: 2019-11-18
33: EP 31: 19159093.4 32: 2019-02-25

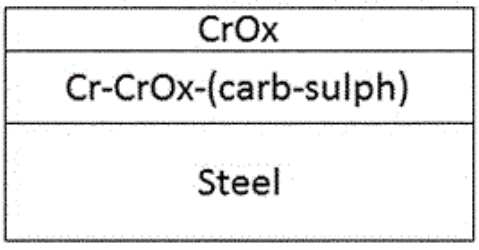
54: METHOD FOR ELECTROLYTICALLY DEPOSITING A CHROMIUM OXIDE LAYER

00: -

This invention relates to a method for electrolytically depositing a chromium oxide layer onto i) blackplate or onto ii) blackplate coated with a chromium electrodeposited coating produced based on chromium(III) technology electroplating, and to the coated product obtained thereby.



a.



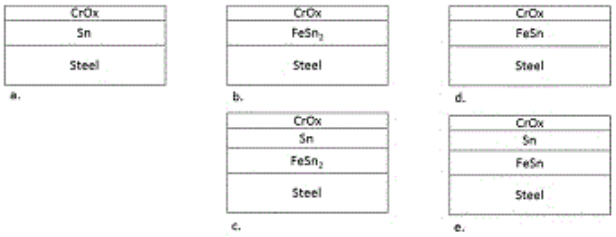
b.

21: 2021/06068. 22: 2021/08/23. 43: 2023/04/11
51: C25D
71: TATA STEEL IJMUIDEN B.V.
72: WIJENBERG, JACQUES HUBERT OLGA JOSEPH, STEEGH, MICHIEL, LITZ, MARK WILLEM
33: EP 31: 19159095.9 32: 2019-02-25

54: METHOD FOR MANUFACTURING CHROMIUM OXIDE COATED TINPLATE

00: -

This invention relates to a method for electroplating a steel strip with a plating layer and an improvement thereof.

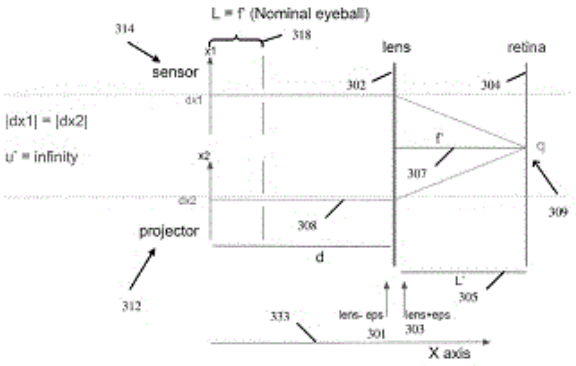


21: 2021/06069. 22: 2021/08/23. 43: 2023/04/11
51: A61B
71: 6 OVER 6 VISION LTD.
72: LIMON, OFER, ZLOTNIK, ALEXANDER, KITTENPLON, YAIR, BREGMAN AMITAI, ORNA
33: US 31: 62/796,240 32: 2019-01-24

54: APPARATUS, SYSTEM AND METHOD OF DETERMINING ONE OR MORE PARAMETERS OF A REFRACTIVE ERROR OF A TESTED EYE

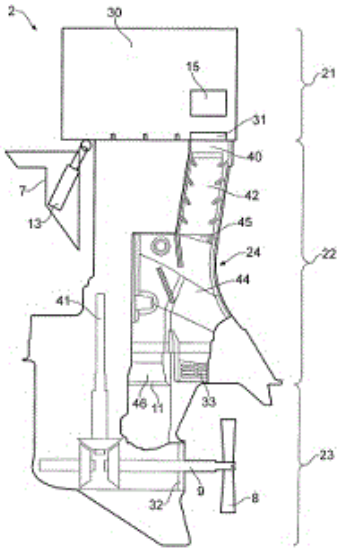
00: -

Some demonstrative embodiments include apparatuses, systems and/or methods of determining one or more parameters of a refractive error of a tested eye. For example, a computing device may be configured to process depth mapping information to identify depth information of a tested eye; and to determine one or more parameters of a refractive error of the tested eye based on the depth information of the tested eye.



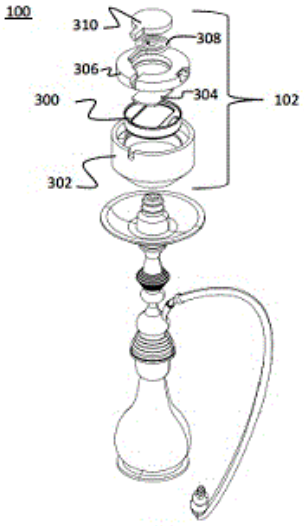
21: 2021/06136. 22: 2021/08/25. 43: 2023/04/11
51: B63H; F01N
71: COX POWERTRAIN LIMITED

72: EATWELL, JAMES
33: GB 31: 1811468.6 32: 2018-07-12
54: AN EXHAUST SYSTEM
00: -
The present invention relates to an exhaust system (24) for a combustion engine (30) of a marine vessel (1). The exhaust system (24) includes a chamber and a flow redirection arrangement (48, 50, 56) in the exhaust gas flow path for restricting a flow of liquid flowing in the reverse flow direction towards the exhaust system inlet. The flow redirection arrangement includes at least one chamber flow redirection feature located in the chamber and including a baffle plate configured to direct first and second streams to first and second sides of the baffle plate to split the flow of liquid. A first surface of the chamber defines a recessed region into which the first flow is guided and which is configured to direct the first stream back towards the second stream to collide therewith. This produces turbulence and dissipates the kinetic energy of the incoming flow of liquid. The invention also relates to motor assemblies and marine vessels having such exhaust systems.



21: 2021/06157. 22: 2021/08/25. 43: 2023/04/11
51: A24F
71: ADALSIA LIMITED
72: BROYAN, MIKHAIL, ELAM, JOHN MICHAEL, ALEXANDER, GILBERT, HEDDEN, JACKSON, TYNESKI, FRANK, KHACHATRYAN, ARTYOM
33: US 31: 62/815,167 32: 2019-03-07
33: US 31: 62/929,273 32: 2019-11-01

54: HOOKAH DEVICE
00: -
Described is a hookah device. The hookah device includes a unique hookah head and consumable pod. The hookah head includes a bowl portion with a pod recess formed therein to receive a consumable pod. An electronic heating mechanism is positioned within the hookah head for heating the consumable pod. An air pathway is formed through the hookah head to introduce air into the consumable pod and direct smoke from the consumable pod into a hookah body. The consumable pod is similarly formed to fit within the hookah head. Further, the consumable pod includes a pod inlet and pod outlet for directing air through the pod and through the hookah device for inhalation.



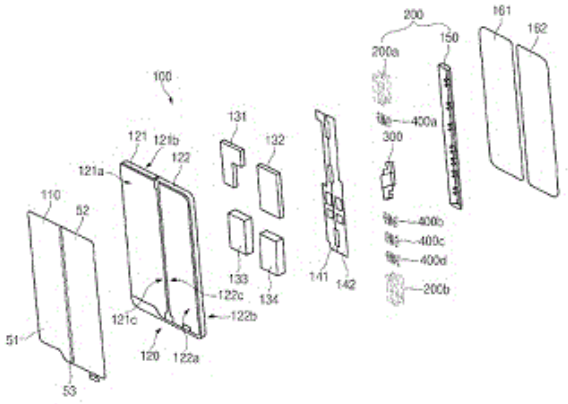
21: 2021/06175. 22: 2021/08/24. 43: 2023/05/25
51: A61K
71: Matrida Chisango
72: Matrida Chisango, Zedia Chigwete
33: ZA 31: 2020/05328 32: 2020-08-26
54: A COMPOSITION
00: -
A composition including Syzygium cordatum and Argyreia nervosa.

21: 2021/06196. 22: 2021/08/26. 43: 2023/04/05
51: C09K
71: DAIKIN INDUSTRIES, LTD.
72: OHKUBO, SHUN, ITANO, MITSUSHI, YOTSUMOTO, YUUKI, MIZUNO, AKIHITO, GOTOU, TOMOYUKI, YAMADA, YASUFU

33: JP 31: 2019-013979 32: 2019-01-30
33: JP 31: 2019-115584 32: 2019-06-21
54: COMPOSITION CONTAINING REFRIGERANT, AND REFRIGERATION METHOD USING SAID COMPOSITION, OPERATING METHOD FOR REFRIGERATION DEVICE, AND REFRIGERATION DEVICE
00: -
The present disclosure provides a composition containing a refrigerant, the composition having the characteristics of having a refrigeration capacity and a coefficient of performance (COP) equal to or greater than R404A, and of having an adequately small GWP. The present disclosure specifically provides a composition containing a refrigerant, wherein the refrigerant contains trans-1,2-difluoroethylene (HFO-1132(E)) and 2,3,3,3-tetrafluoropropene (HFO-1234yf), the content ratio of HFO-1132(E) being 35.0-65.0 mass% and the content of HFO-1234yf being 65.0-35.0 mass% with respect to the total mass of HFO-1132(E) and HFO-1234yf, and the refrigerant is used for operation of a refrigeration cycle in which the evaporation temperature is -75°C to -5°C.

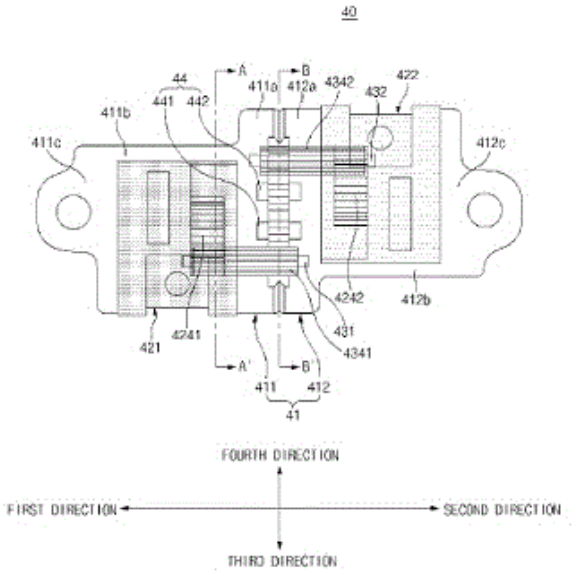
21: 2021/06197. 22: 2021/08/26. 43: 2023/04/05
51: G06Q; G09F
71: POCAI, RICARDO
72: POCAI, RICARDO
54: METHOD AND SYSTEM FOR INFORMING, ORGANIZING, TRANSPORTING, BOARDING AND ACCOMMODATING PASSENGERS IN AIRCRAFT, EQUIPMENT AND RELATED COMPUTER PROGRAMS
00: -
The present invention relates to a method characterized by one or more waves of passengers, the size of which corresponds to the number of passengers being accommodated who can be standing in the aisle of the aircraft at the same time. The invention also relates to a system and equipment used to implement a method according to the invention, and also related computer programs.

21: 2021/06198. 22: 2021/08/26. 43: 2023/04/05
51: G06F
71: SAMSUNG ELECTRONICS CO., LTD.
72: KIM, JONGYOON, KIM, JUNGJIN, YOO, CHUNGKEUN, KANG, JONGMIN, LEE, SUMAN, LEE, HYUNGGEUN
33: KR 31: 10-2019-0062226 32: 2019-05-28
33: KR 31: 10-2019-0019560 32: 2019-02-19
54: HINGE MODULE INCLUDING DETENT STRUCTURE AND FOLDABLE ELECTRONIC DEVICE INCLUDING THE HINGE MODULE
00: -
A foldable electronic device includes a foldable housing including a hinge structure, a first housing structure, a second housing structure, and a hinge housing, a flexible display, and a first detent structure. The first detent structure includes a first member connected to the first housing structure, a second member connected with the second housing structure, a first ball and a second ball disposed in the first member, and an elastic member that is located in the first member between the first ball and the second ball and that presses the first ball and the second ball outward.

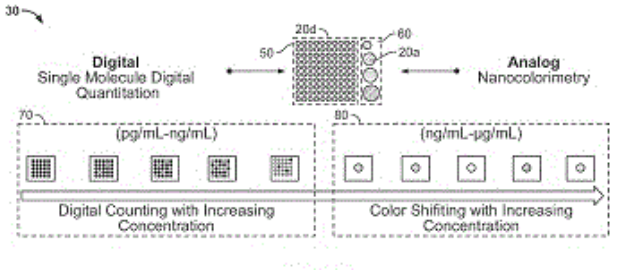


21: 2021/06199. 22: 2021/08/26. 43: 2023/04/05
51: H04M
71: SAMSUNG ELECTRONICS CO., LTD.
72: KIM, JUNGJIN, KIM, JONGYOON, YOO, CHUNGKEUN, KANG, JONGMIN, LEE, SUMAN, HWANG, SUNGKYU
33: KR 31: 10-2019-0019576 32: 2019-02-19
54: HINGE MODULE AND FOLDABLE ELECTRONIC DEVICE INCLUDING THE SAME
00: -
A hinge 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

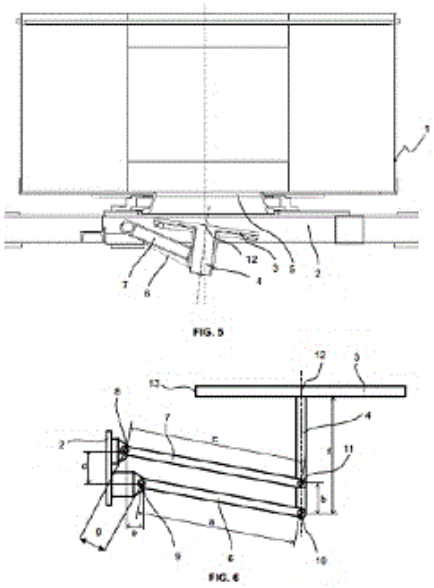
central portion and including a gear formed on at least a part of an outer circumferential surface of the connecting shaft, and a rotary structure disposed in the interior space, the rotary structure including a circular arc shaped gear having a plurality of gear teeth arranged in a circular arc shape 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: 2021/06202. 22: 2021/08/26. 43: 2023/04/11
51: G01N; B82Y
71: NANOMOSAIC INC.
72: QUAN, QIMIN, WILKINSON, JOSEPH, RITCHEY, JOSHUA A, BOYCE, JOHN
33: US 31: 62/811,041 32: 2019-02-27
33: US 31: 62/811,559 32: 2019-02-28
33: US 31: 62/811,543 32: 2019-02-28
33: US 31: 62/811,579 32: 2019-02-28
54: NANOSENSORS AND USE THEREOF
00: -
Provided is a nanosensor having a high dynamic range and sensitivity for detecting the presence, and/or quantifying the amount, of an analyte in a sample of interest. Also provided is a cartridge incorporating the nanosensor, and a method and system for detecting the presence, and/or quantifying the amount, of the analyte in the sample of interest.



21: 2021/06235. 22: 2021/08/27. 43: 2023/04/11
51: B01F
71: MASCHINENFABRIK GUSTAV EIRICH GMBH & CO. KG
72: SEILER, ANDREAS
33: DE 31: 10 2019 108 869.0 32: 2019-04-04
54: MIXER HAVING A CLOSING COVER
00: -
The present invention relates to a mixer, comprising a mixing container, which is retained in a machine stand (2), an outlet opening (5) arranged in the bottom of the mixing container (1) being provided, and a closing cover (3) being provided, which can be moved back and forth between a closed position, in which the closing cover (3) closes the outlet opening (5), and an open position, in which the closing cover (3) does not close the outlet opening (5). According to the invention, in order to provide a mixer, the emptying opening (5) of which can be easily opened and closed and in the case of which the risk of soiling of the drive of the closing cover (3) is considerably lower, the closing cover (3) is connected to the machine stand (2) by means of a four-bar linkage having four rotary joints, a first and a second rotary joint (10, 11) of the four-bar linkage being arranged on the closing cover (3) and a third and a fourth rotary joint (8, 9) of the four-bar linkage being arranged on the machine stand (2).



21: 2021/06237. 22: 2021/08/27. 43: 2023/04/11
51: A61K
71: BIONTECH SE
72: HAAS, HEINRICH, HÖRNER, SEBASTIAN, HILLER, THOMAS MICHAEL
33: EP 31: PCT/EP2019/058635 32: 2019-04-05

54: PREPARATION AND STORAGE OF LIPOSOMAL RNA FORMULATIONS SUITABLE FOR THERAPY

00: -

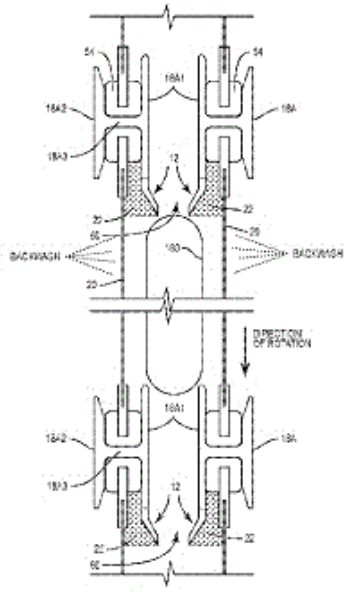
The present disclosure relates to methods for preparing RNA lipoplex particles for delivery of RNA to target tissues after parenteral administration, in particular after intravenous administration, and compositions comprising such RNA lipoplex particles. The present disclosure also relates to methods which allow preparing RNA lipoplex particles in an industrial GMP-compliant manner. Furthermore, the present disclosure relates to methods and compositions for storing RNA lipoplex particles without substantial loss of the product quality and, in particular, without substantial loss of RNA activity.

21: 2021/06238. 22: 2021/08/27. 43: 2023/04/11
51: B01D
71: VEOLIA WATER SOLUTIONS & TECHNOLOGIES SUPPORT
72: JIBERT, JOHAN GUSTAV ALEXANDER, SVENSSON, EMIL, THYSELL, FILIP, LARSSON, PER
33: US 31: 16/293,772 32: 2019-03-06

54: ROTARY DISC FILTER HAVING BACKWASH GUIDES

00: -

A rotary disc filter includes one or more filter discs secured to a rotary drum (40) and include a series of circumferentially spaced backwash guides (12) disposed in the filter disc. During backwashing, the backwash guides function to engage a mixture of backwash and suspended solids and guide or direct the mixture to a sludge trough disposed in the disc filter. The backwash guides generally assure that a greater percentage of the backwash and suspended solids mixture end up in the solids trough.



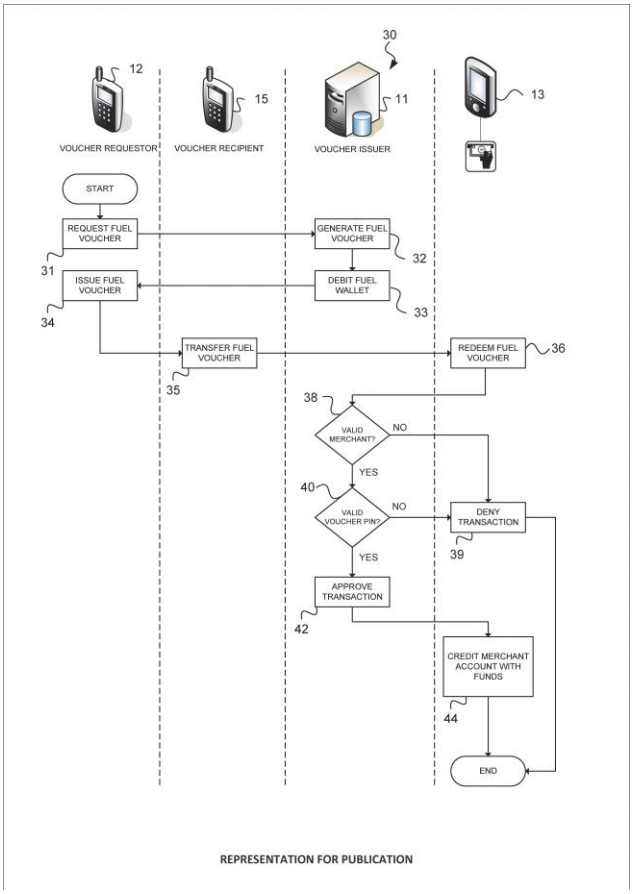
21: 2021/06276. 22: 2021/08/30. 43: 2023/04/05
51: G06Q
71: RAMAKASHA, Fanisani Frank, KUBHEKA, Phumulani Mpumelelo Mkhuliseni
72: RAMAKASHA, Fanisani Frank
33: ZA 31: 2020/03306 32: 2020-06-03

54: A METHOD AND SYSTEM FOR PURCHASING FUEL USING A FUEL VOUCHER

00: -

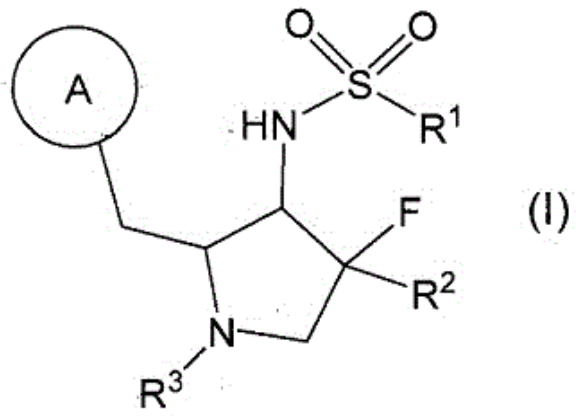
The invention relates to a method 30 for purchasing fuel from a fuel merchant using a fuel voucher. The user may request 31 a fuel voucher by accessing a dedicated mobile, web or banking application and specifying or selecting a monetary value of the voucher. The fuel voucher may be issued in the form of a unique pin or QR code which can be easily digitally transferred between users. To redeem the voucher, a recipient submits the unique pin to a POS device 13 in exchange for fuel to the value of the

voucher. Through use of this method 30 present money clearing delays and drawbacks associated with money transfer transactions can be overcome, because the voucher is immediately available for redemption at any fuel merchant, once issued, which obviates the need to attend at an ATM if in need of cash to buy fuel.

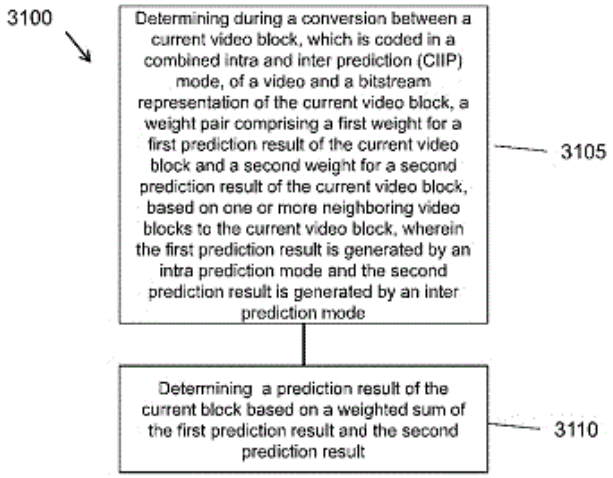


REPRESENTATION FOR PUBLICATION

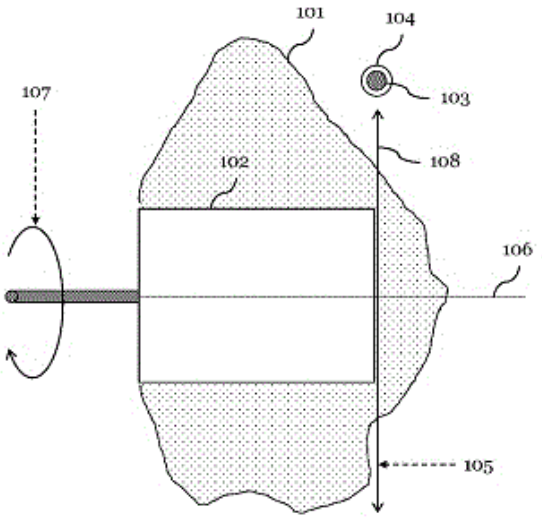
21: 2021/06304. 22: 2021/08/30. 43: 2023/04/11
51: A61P; A61K; C07D
71: TAKEDA PHARMACEUTICAL COMPANY LIMITED
72: HATTORI, YASUSHI, MIYANOHANA, YUHEI, KAJITA, YUICHI, KOIKE, TATSUKI, HOASHI, YASUTAKA, TOKUNAGA, NORIHITO, PAWLICZEK, ALEXANDER MARTIN, ODA, TSUNEO, MIYAZAKI, TOHRU, ITO, YOSHITERU, TAKEUCHI, KOHEI, IMAMURA, KEISUKE, SUGIMOTO, TAKAHIRO
33: JP 31: 2019-015488 32: 2019-01-31
54: HETEROCYCLIC COMPOUND AND USE THEREOF
00: -
The present invention provides a heterocyclic compound having an orexin type 2 receptor agonist activity. A compound represented by the formula (I): wherein each symbol is as described in the specification, or a salt thereof has an orexin type 2 receptor agonist activity, and is useful as an agent for the prophylaxis or treatment of narcolepsy.



21: 2021/06352. 22: 2021/08/31. 43: 2023/04/11
51: H04N
71: BEIJING BYTEDANCE NETWORK TECHNOLOGY CO., LTD., BYTEDANCE INC.
72: LIU, HONGBIN, ZHANG, LI, ZHANG, KAI, XU, JIZHENG, WANG, YUE, ZHANG, NA
33: CN 31: PCT/CN2019/079148 32: 2019-03-21
33: CN 31: PCT/CN2019/100616 32: 2019-08-14
54: IMPROVED WEIGHTING PROCESSING OF COMBINED INTRA-INTER PREDICTION
00: -
The present application relates to improved weighting processing of combined intra-inter prediction. A method for processing video includes: determining, during a conversion between a current video block, which is coded in a combined intra and inter prediction (CIIP) mode, of a video and a bitstream representation of the current video block, a weight pair comprising a first weight for a first prediction result of the current video block and a second weight for a second prediction result of the current video block, based on one or more neighboring video blocks to the current video block, wherein the first prediction result is generated by an intra prediction mode and the second prediction result is generated by an inter prediction mode; and determining a prediction result of the current block based on a weighted sum of the first prediction result and the second prediction result.



21: 2021/06355. 22: 2021/08/31. 43: 2023/04/11
51: B23K; A44C
71: SYNOVA S.A.
72: LE CLEC'H, JULIEN, PAUSCH, JÖRG, RICHERZHAGEN, BERNOLD
33: EP 31: 19161033.6 32: 2019-03-06
54: METHOD AND APPARATUS FOR MANUFACTURING A WORKPIECE INTO A PRODUCT
00: -
The invention relates to a method and an apparatus for manufacturing a workpiece (101), specifically a rough diamond, into a product (102), specifically a brilliant. The method is performed by an apparatus providing a laser beam (103) coupled into a pressurized fluid jet (104). The method comprises executing multiple cuts of the workpiece (101) with the laser beam (103) according to a predetermined cut-sequence to remove workpiece (101) material with each completed cut. The method further comprises executing multiple rotations of the workpiece (101) around the same axis (106) of revolution according to a predetermined rotation-sequence (107). Thereby, a rotation is executed after a completed cut, and for executing a cut the laser beam (103) is moved along a two- dimensional path (108).



21: 2021/06356. 22: 2021/08/31. 43: 2023/04/11
51: C11D
71: UNILEVER GLOBAL IP LIMITED
72: FERGUSON, PAUL, JARVIS, ADAM PETER, JONES, CHRISTOPHER CLARKSON, PARKER, ANDREW PHILIP
33: EP 31: 19166000.0 32: 2019-03-28
54: LAUNDRY DETERGENT COMPOSITIONS
00: -
The invention provides a liquid laundry detergent composition having: (i) an aqueous continuous phase including from 3 to 80% (by weight based on the total weight of the composition) of one or more detersive surfactants and from 0.05% to 2% (by weight based on the total weight of the composition) of a first polymeric rheology modifier; and (ii) a dispersed phase of suspended benefit agent delivery particles; the particles having a core-shell structure in which a shell of polymeric material entraps a core containing the benefit agent; in which a second polymeric rheology modifier comprises a hydrophilic polysaccharide backbone and is covalently attached to the exterior surface of the shell of the delivery particle (either directly or via a linking group); and in which the first and the second polymeric rheology modifiers each have a hydrophilic backbone including at least one hydrophobic segment which is available to form non-specific hydrophobic associations within the composition.

21: 2021/06370. 22: 2021/09/01. 43: 2023/04/11
51: C07K; A61K; A61P

71: UCB BIOPHARMA SRL
72: DOWNEY, PATRICK, TYSON, KERRY LOUISE, KRIEK, MARCO, DE LICHTERVELDE, LORENZO, LIGHTWOOD, DANIEL JOHN, MCMILLAN, DAVID JAMES, ELLIOTT, PETER CHARLES, BAKER, TERENCE SEWARD
33: GB 31: 1720970.1 32: 2017-12-15
54: ANTI-ALPHA SYNUCLEIN ANTIBODIES
00: -
The present invention relates to alpha synuclein binding antibodies and fragments thereof capable of binding alpha synuclein as a monomer and in fibrils and preventing alpha synuclein aggregation induced by alpha synuclein fibrils. The antibodies of the present invention are for use in the treatment of alpha synucleinopathies, including Parkinson's disease.

21: 2021/06392. 22: 2021/09/01. 43: 2023/04/11
51: A61K; A61P
71: BIONTECH SE, TRON - TRANSLATIONALE ONKOLOGIE AN DER UNIVERSITÄTSMEDIZIN DER JOHANNES GUTENBERG-UNIVERSITÄT MAINZ GEMEINNÜTZIGE GMBH
72: WEBER, DAVID, WALTER, CARINA, BAREA ROLDAN, DIANA, KUNER, RUPRECHT, DIKEN, ELIF, SUCHAN, MARTIN, GANGI MAURICI, STEFANIA, SAHIN, UGUR
33: EP 31: PCT/EP2019/056185 32: 2019-03-12
54: THERAPEUTIC RNA FOR PROSTATE CANCER
00: -
Disclosed herein are compositions, uses, and methods for treatment of prostate cancers. In one aspect, disclosed herein is a composition or medical preparation comprising at least one RNA, wherein the at least one RNA encodes the following amino acid sequences: (i) an amino acid sequence comprising Kallikrein-2 (KLK2), an immunogenic variant thereof, or an immunogenic fragment of the KLK2 or the immunogenic variant thereof; (ii) an amino acid sequence comprising Prostate Specific Antigen (PSA), an immunogenic variant thereof, or an immunogenic fragment of the PSA or the immunogenic variant thereof; (iii) an amino acid sequence comprising Prostatic Acid Phosphatase (PAP), an immunogenic variant thereof, or an immunogenic fragment of the PAP or the immunogenic variant thereof; (iv) an amino acid sequence comprising Homeobox B13 (HOXB13), an immunogenic variant thereof, or an immunogenic fragment of the HOXB13 or the immunogenic variant thereof; and (v) an amino acid sequence comprising NK3 Homeobox 1 (NKX3-1), an immunogenic variant thereof, or an immunogenic fragment of the NKX3-1 or the immunogenic variant thereof.

21: 2021/06431. 22: 2021/09/02. 43: 2023/04/12
51: B65D
71: SACMI COOPERATIVA MECCANICI IMOLA SOCIETÀ COOPERATIVA
72: FALZONI, ALESSANDRO, BASSI, VITTORIO
33: IT 31: 102019000012534 32: 2019-07-22
33: IB 31: PCT/IB2020/050748 32: 2020-01-30
54: A CAP FOR CLOSING A CONTAINER, A COMBINATION OF A CAP AND A NECK
00: -
A cap for a container comprises a side wall (2) extending about an axis (Z) and a transversal wall (3) arranged at an end of the side wall (2). A separation line (4) is provided on the side wall (2) for defining: - a retaining ring (5) intended to remain anchored to a neck (18; 218) of the container, and - a closure element (6) which can removably engage the neck (18; 218), so as to open or close the container. The separation line (4) extends about the axis (Z) and is circumferentially interrupted so as to leave a joining portion (8) between the retaining ring (5) and the closing element (6). The cap (1; 201) further has an incision line (21) which extends transversally to the axis (Z) between the separation line (4) and a free edge (16) of the retaining ring (5), so that between the separation line (4) and the incision line (21) two connecting bands (29, 30) are defined, the connecting bands (29, 30) joining the retaining ring (5) to the joining portion (8). The connecting bands (29, 30) have a radial thickness measured in a radial direction and a height (H) measured parallel to the axis (Z). The ratio between the height (H) and the radial thickness of the connecting bands (29, 30) is greater than, or equal to, 1.4 and is less than, or equal to, 6.5.

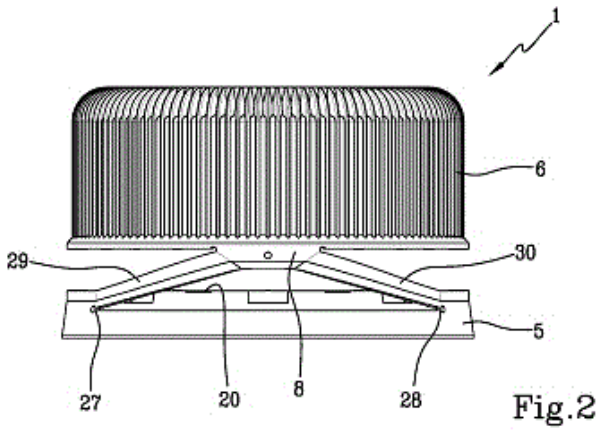
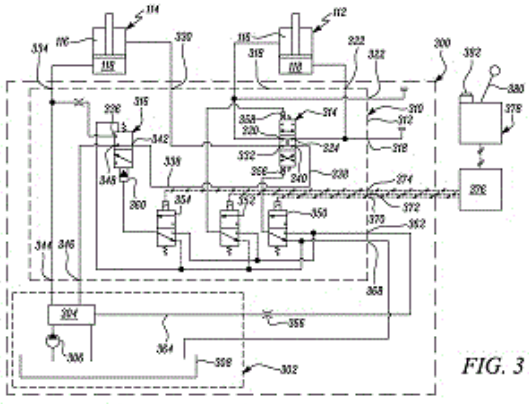


Fig.2

21: 2021/06438. 22: 2021/09/02. 43: 2023/04/12
51: C12N; A61K
71: Aurealis Therapeutics AG
72: WIRTH, THOMAS, YRJÄNHEIKKI, JUHA, SAMARANAYAKE, HARITHA, KÄRKKÄINEN, HANNA-RIIKKA, KURKIPURO, JERE, MIERAU, IGOR, SMITH, WESLEY
54: CHLORIDE-INDUCIBLE PROKARYOTIC EXPRESSION SYSTEM
00: -
The invention is directed to recombinant bacteria, a recombinant plasmid, a pharmaceutical composition and a kit as well as the use of a reconstitution medium comprising chloride ions to reconstitute the recombinant bacteria.

21: 2021/06439. 22: 2021/09/02. 43: 2023/04/12
51: E02F
71: CATERPILLAR INC.
72: FERRAZ, JOHN JR, JACKSON, MICHAEL T, DUST, KENNETH A
33: US 31: 16/294,049 32: 2019-03-06
54: ELECTRO-HYDRAULIC ARRANGEMENT FOR AN EARTHMOVING MACHINE
00: -
An electro-hydraulic arrangement (310) for controlling operation of a pair of tilt actuators (112, 114) of an earthmoving machine (100) includes a housing (312), and a directional control valve (DCV) (314) and a regeneration valve (RV) (316 disposed within the housing (312). The DCV (314) and the RV are coupled in selective fluid communication with one another and with rod end and head end chambers (116, 118) of the actuators via ports defined on the housing (312). When the DCV (314) is in a first or second operative position, the RV may be positioned in a regenerative position to allow the rod end chambers (116) of respective ones of the first and second actuators (112, 114) to communicate fluid to the head end chamber (118) of the second actuator (114). Optionally, the regen valve may be positioned in a drain position to allow the rod end chambers (116) of respective ones of the first and second actuators (112, 114) to communicate fluid with the drain port (346) of the housing (312).


FIG. 3

21: 2021/06480. 22: 2021/09/03. 43: 2023/04/12
51: F03B; E02B; F03G
71: LONE GULL HOLDINGS, LTD.
72: MOFFAT, BRIAN LEE, SHELDON-COULSON, GARTH ALEXANDER
33: US 31: 62/971,963 32: 2020-02-08
33: US 31: 62/809,566 32: 2019-02-23
33: US 31: 16/796,724 32: 2020-02-20
33: US 31: 62/834,964 32: 2019-04-17
54: WAVE-ENERGIZED DIODE PUMP
00: -
Disclosed is an apparatus that floats at the surface of a body of water over which waves pass. Passing waves cause a nominally vertical axis of the apparatus to tilt away from an axis normal to the resting surface of the body of water. Tilting of sufficient magnitude and duration allows a fluid to flow through a channel. Flowing water is trapped at a plurality of levels which in an un-tilted apparatus are higher than the respective levels from which the fluid has flowed. A subsequent tilt of the apparatus in a sufficiently different direction, and of a sufficient magnitude and duration, causes the trapped water to flow to new, yet higher levels. Successive wave-driven tilts of the apparatus incrementally raise water

to a height and/or head from which a portion of its gravitational potential energy can be released, and/or converted to electrical power.

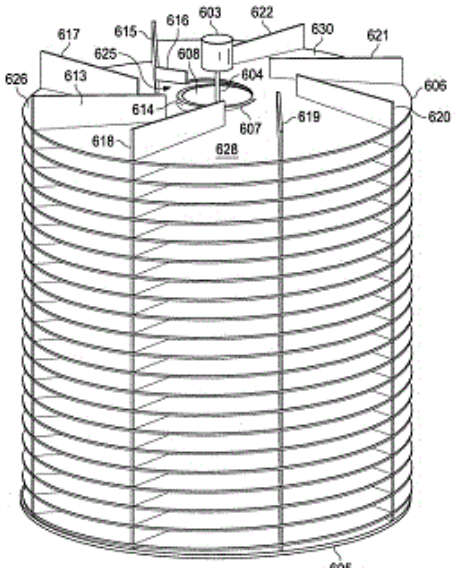
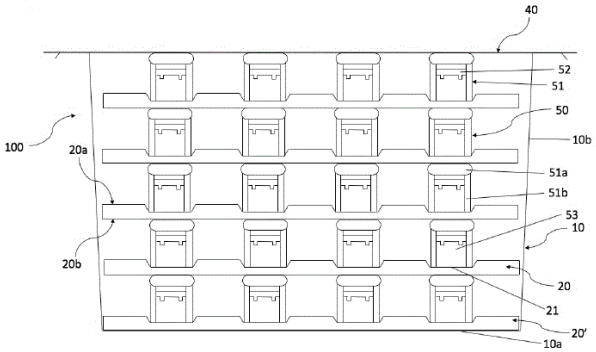


FIG. 67

21: 2021/06496. 22: 2021/09/06. 43: 2023/04/11
51: A61J
71: A. RAYMOND ET CIE
72: REY, Gaëtan
33: FR 31: FR2009218 32: 2020-09-11
54: SYSTEM AND METHOD FOR PACKAGING MEDICAL STOPPERS CONSISTING OF A CAP AND A PLUG
00: -
The invention relates to a packaging system (100) for medical stoppers (50) formed by a cap (51) mounted on a plug (52), the packaging system (100) comprising: a vessel (10); at least one tray (20) provided with cavities (21), each of which receives a medical stopper (50) arranged such that the cap (51), together with an upper face (20a) of the tray (20), defines a closed compartment (53) for individually isolating the plug (52), the tray (20) being placed in the vessel (10); and a porous lid (40) sealed on the vessel (10).



21: 2021/06517. 22: 2021/09/06. 43: 2023/04/12
51: A01P; A01N
71: EXACTO, INC.
72: SEXTON, FRANKLIN E, STRASH, RYAN T, OBEAR, GLEN R
33: US 31: 62/818,443 32: 2019-03-14
54: TRANSPARENT OR SEMITRANSPARENT INVERSE MICROLATICES OF POLYACRYLAMIDE AS OIL EMULSION DRIFT REDUCING AGENT
00: -
The present disclosure provides compositions comprising polyacrylamide microemulsions, for example transparent or semitransparent inverse microlatices of polyacrylamide, and methods and formulations using the compositions for management of crop pests.

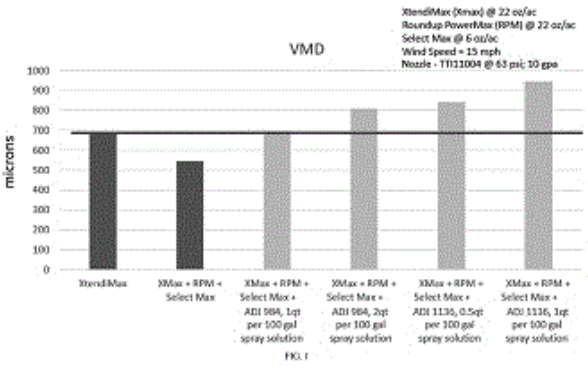


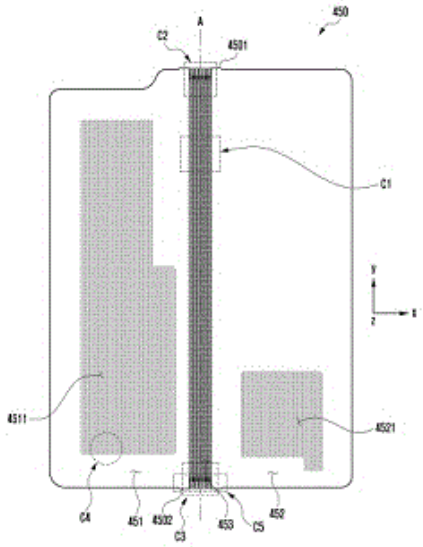
FIG. 1

21: 2021/06556. 22: 2021/09/07. 43: 2023/04/12
51: H04M
71: SAMSUNG ELECTRONICS CO., LTD.
72: KIM, SEONGHOON, KIM, HARKSANG, AHN, SUNGHO, YEOM, DONGHYUN, YOO, CHUNGKEUN
33: KR 31: 10-2019-0027753 32: 2019-03-11
33: KR 31: 10-2019-0070106 32: 2019-06-13

54: ELECTRONIC APPARATUS INCLUDING FOLDABLE CONDUCTIVE PLATE

00: -

This electronic apparatus may comprise: a hinge module; and a flexible display disposed in first and second housings, wherein the display includes a display panel, at least one polymer member disposed on the rear surface of the display panel, and a conductive plate disposed on the rear surface of the polymer member and including a flexible part formed to be bendable through a plurality of openings disposed spaced apart from each other. The flexible part may include: a bending portion that folds together with the display; a first lower attachment portion which is connected from the bending portion to the first flat surface portion and which, together with at least a portion of the first flat surface portion, is attached to the first housing through an adhesive member; and a second lower attachment portion which is connected from the bending portion to the second flat surface portion and which, together with at least a portion of the second flat surface portion, is attached to the second housing through the adhesive member.

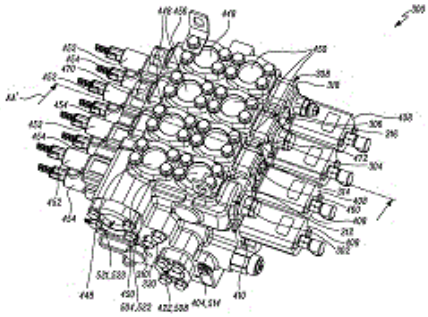


21: 2021/06603. 22: 2021/09/08. 43: 2023/04/04
51: E02F
71: CATERPILLAR INC.
72: FERRAZ, JOHN JR, JACKSON, MICHAEL T, O'NEILL, WILLIAM N
33: US 31: 16/299,554 32: 2019-03-12

54: MODULAR MANIFOLD HAVING AT LEAST TWO CONTROL MODULES FOR CONTROLLING OPERATION OF AT LEAST TWO HYDRAULIC ACTUATORS OF AN EARTHMOVING MACHINE

00: -

A control module (302/304/306/308) for controlling an operation of a hydraulic actuator that is associated with an earthmoving machine (100) includes a body (312/314/316/318). The body (314) has a spool chamber (402) and a load sensing passageway (404) associated with the spool chamber (402). The body (314) also has a spool (406) positioned axially, and at least partially, within the spool chamber (402). The spool (406) is spring-biased by an end cap 408 located at a first end 410 of the body (314). The body (314) also has a pair of electrohydraulic spool actuators (452, 454) that are located at a second end (456) of the body (314) and operable to axially displace the spool (406) within the spool chamber (402). The pair of spool actuators (452, 454) are positioned in parallel and disposed adjacent to one another. The body (314) also has an inlet chamber (418) that is disposed parallel to the spool chamber (402) and in selective fluid communication with the spool chamber (402) via a spool supply passageway (420).



21: 2021/06623. 22: 2021/09/08. 43: 2023/04/12
51: G06Q; G06F; G16H
71: THE ANTI-INFLAMMAGING COMPANY AG
72: CAVALLI, FRANCESCO, CAVALLI, FABIO, ARTH, HANS-LOTHAR
33: EP 31: 19160914.8 32: 2019-03-05

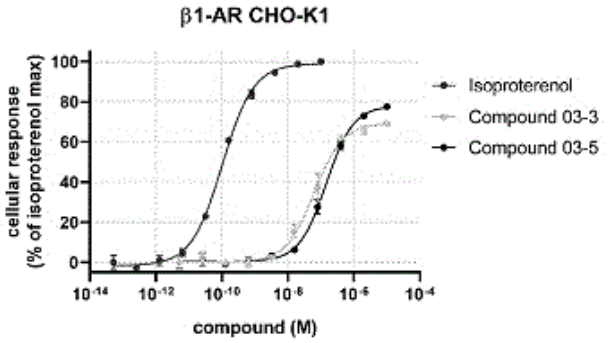
54: VIRTUAL AGENT TEAM

00: -

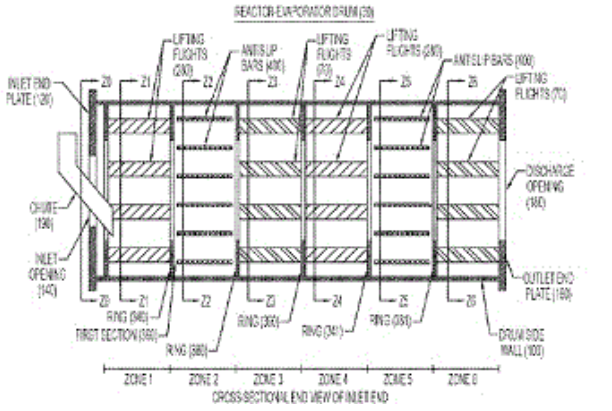
The present invention relates to a system for providing a team of at least two virtual agents, the system comprising at least one central processing unit, at least one non-transitory computer readable storage medium, at least one input device, and at least one output device, wherein the virtual agents

are distinctively presented to a user by the at least one output device and each of the at least two virtual agents is assigned to a different field of interest and each of the at least two virtual agents is configured to provide visual and/or audio recommendations of the field of interest assigned to the respective virtual agent to the user on the basis of user-specific data and on the basis of the current state of the user, wherein at least two virtual agents of the team assigned to at least two different fields of interest provide recommendations to the user in the current state so that the user is provided with bidirectional, multidirectional, or even contradictory recommendations of at least two different fields of interest.

21: 2021/06625. 22: 2021/09/08. 43: 2023/04/12
51: A61K; A61P; C07D
71: CURASEN THERAPEUTICS, INC.
72: FORD, ANTHONY P, CHEN, WEI, CARTER, DAVID SCOTT, YU, JIAXIN
33: US 31: 62/934,482 32: 2019-11-12
33: US 31: 62/824,876 32: 2019-03-27
54: BETA ADRENERGIC AGONIST AND METHODS OF USING THE SAME
00: -
The present disclosure is directed to chemical compounds and to the use of such compounds in the treatment of diseases associated with an adrenergic receptor. In certain embodiments of the methods disclosed herein, the methods include administering to the subject a compound as disclosed herein and a peripherally acting P-blocker (PABRA).



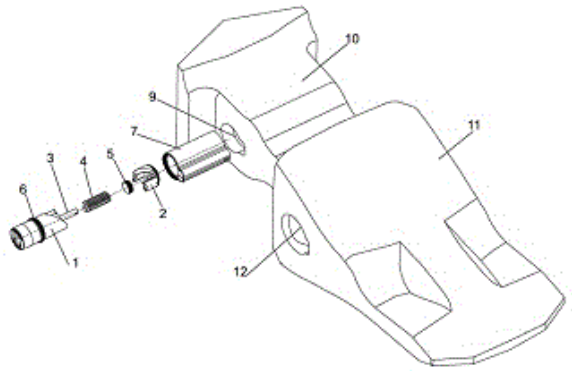
21: 2021/06626. 22: 2021/09/08. 43: 2023/04/12
51: C09K
71: PREMIERE FERTILIZER SYSTEMS, LLC
72: SHIRLEY, ARTHUR R. JR, HAYES, MELISSA C
33: US 31: 62/807,924 32: 2019-02-20
33: US 31: 16/778,046 32: 2020-01-31
54: A POULTRY LITTER-BASED FERTILIZER AND A METHOD FOR MAKING THE POULTRY LITTER-BASED FERTILIZER FROM POULTRY LITTER
00: -
A method for producing a poultry litter-based fertilizer having an enhanced nitrogen level, enhanced ratio of nitrogen to phosphorous, and increased sulfur by a) supplying poultry litter to a rotating rotary drum, b) adding acid or a source of acid to the rotating rotary drum, wherein acid reacts with the poultry litter to form an acidified mixture, c) adding ammonia or a source of ammonia to the rotating rotary drum, wherein ammonia reacts with the acidified mixture to produce an ammoniated mixture containing an ammonium salt and heat, d) drying and cooling the ammoniated product to form a dried, cooled product in a free-flowing semi-solid or solid form, repeating the steps b) through d) until a desired nitrogen content is reached in the dried, cooled product, adjusting the pH in at least one step b) to destroy pathogens, weed seeds, drugs, hormones, and/or antibiotics present in the poultry litter.



21: 2021/06655. 22: 2021/09/09. 43: 2023/04/12
51: F04D
71: LONE GULL HOLDINGS, LTD.
72: SHELDON-COULSON, GARTH ALEXANDER, MOFFAT, BRIAN LEE, PLACE, DANIEL WILLIAM
33: US 31: 62/755,427 32: 2018-11-03
33: US 31: 62/718,383 32: 2018-08-14
33: US 31: 62/724,629 32: 2018-08-30
33: US 31: 62/768,968 32: 2018-11-18
33: US 31: 16/538,472 32: 2019-08-12

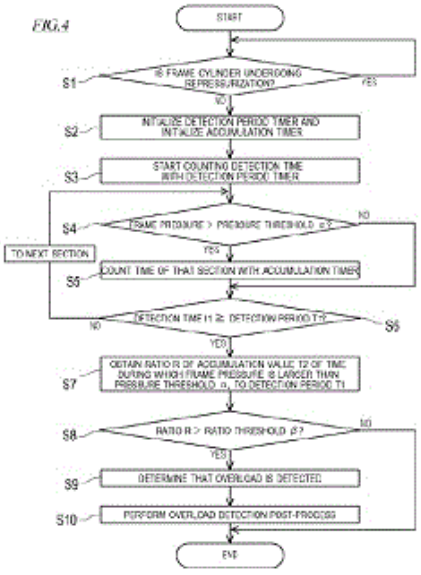
33: US 31: 62/719,648 32: 2018-08-18
33: US 31: 62/739,190 32: 2018-09-29
33: US 31: 62/831,202 32: 2019-04-09
54: INERTIAL HYDRODYNAMIC PUMP AND WAVE ENGINE
00: -
A hydrodynamic pump is disclosed that can float on a surface of a body of liquid over which waves tend to pass. The pump includes an upper hull enclosure and a liquid collecting chamber at least partially housed within the upper hull enclosure, for confining liquid and gas at elevated pressure. The pump further includes a liquid pressurizing columnar conduit extending below the upper hull enclosure, and comprising an ingress orifice disposed outside the upper hull enclosure, an injection orifice opening into the liquid collecting chamber, and an interior wall defining a liquid pressurizing surface adapted to pressurize liquid in the liquid pressurizing columnar conduit when the hydrodynamic pump oscillates vertically in the body of liquid to inject liquid into the liquid collecting chamber. The pump further includes: a first effluent conduit for draining liquid from the liquid collecting chamber and having an external effluent port for discharging liquid from the first effluent conduit; and a first flow governor for maintaining a liquid pressure gradient between the liquid collecting chamber and the external effluent port.

21: 2021/06676. 22: 2021/09/09. 43: 2023/04/12
51: E02F
71: METALOGENIA RESEARCH & TECHNOLOGIES S.L.
72: LÓPEZ ALMENDROS, JOSÉ, BOBOUH ABAKOUY, KAMAL, ORTIZ GARCÍA, JUSTO JESÚS
33: ES 31: PCT/ES2019/070224 32: 2019-04-03
54: LOCKING DEVICE FOR COUPLING A WEAR ELEMENT TO A SUPPORT IN AN EARTH MOVING MACHINE
00: -
The present invention relates to a locking device for coupling a wear element (11) to a support (10) in an earth moving machine, having a housing (9) in the support (10) and a hole (12) in the wear element such that, in an assembled position, the housing (9) and the hole (12) are at least partially aligned. The locking device is introduced inside the housing (9), and comprises: - a locking element (1), - an internal element (2), - movement means suitable for moving the locking element (1) with respect to the internal element (2), in a reversible manner and according to a direction of movement, between a retracted position, in which the locking element is completely within the housing and completely outside the hole, and an extended position, and - elastic means which, in the extended position, exert a force that tends to move the locking element (1) closer to the internal element (2).



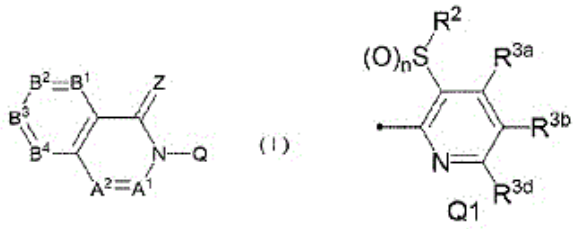
21: 2021/06712. 22: 2021/09/10. 43: 2023/04/12
51: B02C
71: KABUSHIKI KAISHA EARTHTECHNICA
72: KAJITA, NOBUYUKI, OYAMA, ATSUSHI, KIJIMA, TAKASHI, KOBAYASHI, JUN
54: GYRATORY CRUSHER, AND OVERLOAD DETECTION DEVICE AND METHOD THEREFOR
00: -
In a gyratory crusher including a mantle fixed to a main shaft configured to make eccentric turning movement, a concave forming a crushing chamber in which rough stones are seized and crushed, between the mantle and the concave, and a hydraulic cylinder configured to apply a hydraulic pressure that opposes a crushing force, to the mantle or the concave such that a predetermined setting between the mantle and the concave is maintained, the hydraulic pressure of the hydraulic cylinder is detected and stored in association with a detection time, and a time during which the hydraulic pressure exceeds a predetermined pressure threshold in a predetermined detection period during which repressurization is not performed on the hydraulic cylinder is accumulated. If a ratio of the accumulated time to the detection period exceeds a

predetermined ratio threshold, it is detected that the crusher is being operated in an overload state.



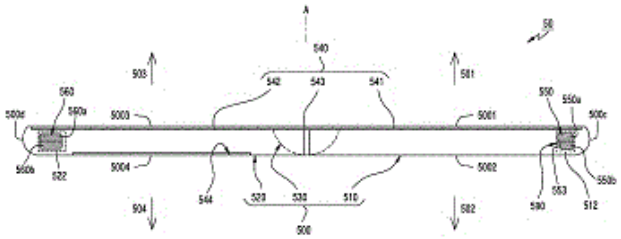
21: 2021/06713. 22: 2021/09/10. 43: 2023/04/12
51: G01N
71: METADEQ LIMITED
72: CASTAGNETO GISSEY, LIDIA, MINGRONE, GELTRUDE
33: IT 31: 102019000005700 32: 2019-04-12
54: NOVEL PATHOLOGICAL MARKER AND USES THEREOF
00: -
The present invention relates to the identification of a novel pathological marker, novel methods for the diagnosis or for the monitoring of the progress of non-alcoholic hepatic steatosis (NAFLD) by the detection and the quantitation of said marker, and devices enabling the implementation of said methods.

21: 2021/06714. 22: 2021/09/10. 43: 2023/04/12
51: A01C; A01M; A61K; A61P; C07D; A01P; A01H; A01N
71: SUMITOMO CHEMICAL COMPANY, LIMITED
72: TSURUDA, TAKESHI, NOKURA, YOSHIHIKO, SAITO, YASUMASA
33: JP 31: 2019-235932 32: 2019-12-26
33: JP 31: 2019-066002 32: 2019-03-29
54: HETEROCYCLIC COMPOUND AND HARMFUL ARTHROPOD PEST CONTROL COMPOSITION CONTAINING SAME
00: -
The present invention provides: a compound represented by Formula (I) [wherein Q is a group or the like represented by Q1, Z represents an oxygen atom or the like, A^1represents CR^{4a}or the like, A^2represents a nitrogen atom or the like, B^1represents a nitrogen atom, CR^{6a}or the like, B^2represents CR^1or the like, B^3represents a nitrogen atom, CR^{6c}or the like, B^4represents a nitrogen atom, CR^{6d}or the like, R^1represents a C1-C6 linear hydrocarbon group or the like, R^2represents a C1-C6 alkyl group or the like, R^{3a}, $R^{3b}$and R^{3d}may be the same or different and individually represent a C1-C6 linear hydrocarbon group or the like, R^{4a}, R^{6a}, $R^{6c}$and R^{6d}may be the same or different and individually represent a C1-C6 linear hydrocarbon group or the like, and n represents 0, 1 or 2] or an N-oxide thereof; a harmful arthropod pest control composition containing the compound or the like; and a harmful arthropod pest control method using the compound or the like.



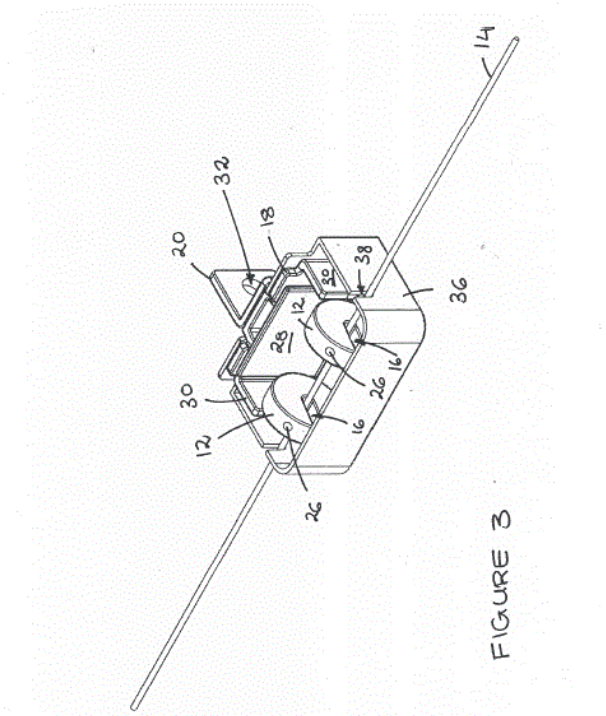
21: 2021/06770. 22: 2021/09/13. 43: 2023/04/12
51: G06F; G09F; H04M
71: SAMSUNG ELECTRONICS CO., LTD.
72: KIM, YONGYOUN
33: KR 31: 10-2019-0020117 32: 2019-02-20
54: FOLDABLE DEVICE
00: -
An electronic device is provided. The electronic device includes a foldable housing configured to include a hinge structure, a first housing structure that has a first face that is connected to the hinge structure and is directed in a first direction, a second face that is directed in a second direction opposite to the first direction, and a first lateral member that at least partly surrounds a space between the first face and the second face, and a second housing structure that has a third face that is connected to the hinge structure and is directed in a third direction, a fourth face that is directed in a fourth direction opposite to the third direction, a second

lateral member that at least partly surrounds a space between the third face and the fourth face, and that is folded about the hinge structure onto the first housing structure, a flexible display, a first magnet a second magnet and at least one electrical path.



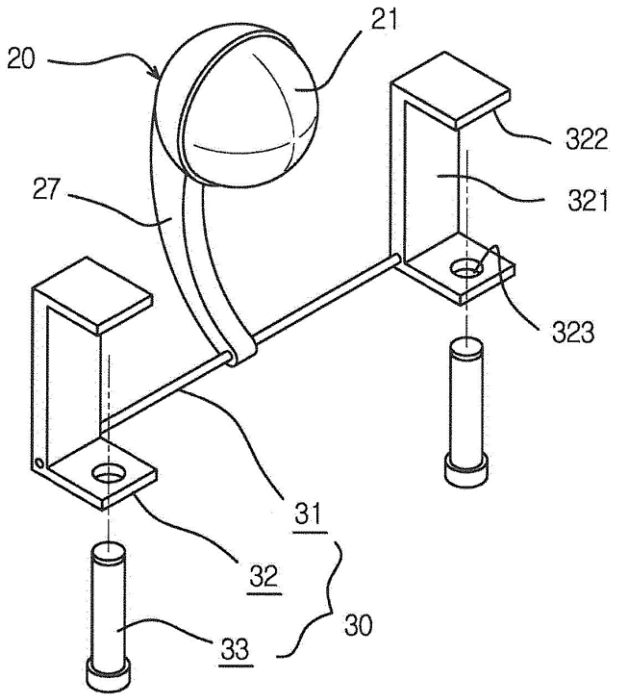
21: 2021/06893. 22: 2021/09/17. 43: 2023/04/18
51: G01N A61K C07H
71: DIAMIDEX
72: DUKAN, Sam
33: EP 31: 19305202.4 32: 2019-02-20
54: METHODS FOR LABELING EUKARYOTIC CELLS FROM A MULTICELLULAR ORGANISM AS WELL AS FOR TREATING AND/OR DIAGNOSING A CANCER USING MODIFIED MONOSACCHARIDE COMPOUNDS
00: -
The present invention relates to modified monosaccharide compounds implemented in methods for labeling and/or detecting an eukaryotic cell from a multicellular organism. It also relates to such modified monosaccharide compounds implemented in methods for identifying or isolating cancer cells, diagnosing a cancer or for cell therapy.

21: 2021/06973. 22: 2021/09/20. 43: 2023/06/08
51: G08B
71: WILLIAMSON, Shaun, Leo, James
72: WILLIAMSON, Shaun, Leo, James
33: ZA 31: 2020/03465 32: 2020-12-10
54: A TAMPER INDICATOR FOR AN ELECTRIC FENCE
00: -
A tamper indicator 10 for an electric fence (not shown) includes two electrically conductive elements in the form of discs 12 configured to be attached to a live wire 14 of the electric fence and wherein the live wire 14 passes through slots 16 defined in the discs 12. An electrically conductive frame 18 is spaced apart from and at least partially surrounds the discs 12. A non-conductive housing 22 for encasing the discs 12, a portion of the live wire 14 they are attached to, and the frame 18 except for a portion of the bracket 20 which protrudes from the housing 22 is completes the tamper indicator 10.

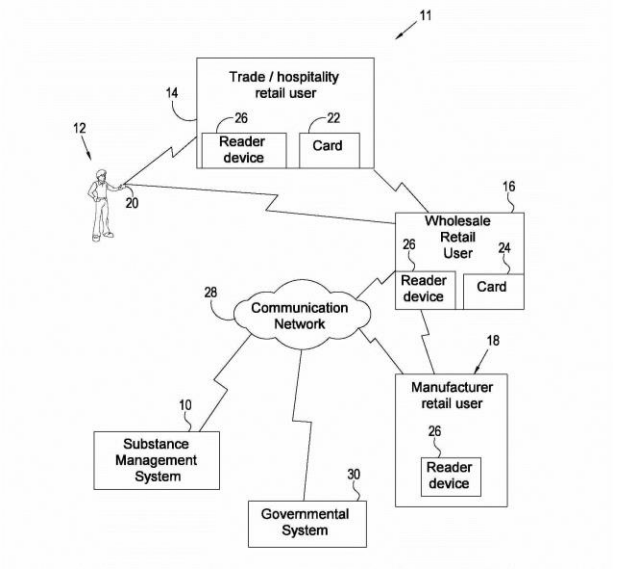


21: 2021/07206. 22: 2021/09/27. 43: 2023/05/08
51: A63D; G06F
71: GO CUE INC.
72: PARK, Chul Hoon, NA, Ji Hoon
33: KR 31: 10-2019-0026924 32: 2019-03-08
54: DEVICE FOR INPUTTING AND CONTROLLING DRIVING STATE INFORMATION OF BILLIARD BALL
00: -
The present invention relates to a device for inputting and controlling driving state information of a billiard ball for playing a billiard game in cyberspace and, more specifically, to a device for inputting and controlling driving state information of a billiard ball, in which an actual billiard ball is fixedly mounted on a standard table, wherein the billiard ball is mounted to be freely rotatable, and is hit by an actual billiard cue stick to receive the billiard ball's effecto information, rotation speed, and rotation direction, as well as driving state information for hitting strength and movement direction, and the received information is processed through driving state information processing software to display an image result reflecting the billiard ball's movement direction and movement amount on the actual billiard table,

thereby making it possible to enjoy a billiard game in cyberspace as though a real game were being played.



21: 2021/07270. 22: 2021/09/28. 43: 2023/04/24
51: G06F; G06Q
71: Evelela Healthcare (Pty) Ltd
72: NAIDOO, Inderan
33: ZA 31: 2020/05854 32: 2020-09-22
54: A SUBSTANCE MANAGEMENT SYSTEM AND A METHOD OF OPERATING A SUBSTANCE MANAGEMENT SYSTEM
00: -
This invention relates to a substance management system, typically for managing alcohol, and to a method of operating the same. The method comprises maintaining a database storing at least a plurality of user profiles associated with users of the substance management system; receiving a unique identifier associated with a user; receiving a substance identifier associated with at least one product associated with the at least one substance to be purchased by the user; identifying the user based on the received unique identifier and accessing the user profile in the database; identifying the at least one product; and determining whether or not the user is eligible for purchasing the at least one product based on the purchase data stored in the user profile of the identified user and the identified at least one product and/or an amount of the at least one substance associated with the at least one product.



21: 2021/07278. 22: 2021/09/28. 43: 2023/04/17
51: C07J A61K A61P
71: PROPELLA THERAPEUTICS, INC.
72: SHARP, Matthew, J., MOORE, William, R.
33: US 31: 62/814,568 32: 2019-03-06
33: US 31: 62/849,259 32: 2019-05-17
54: ABIRATERONE PRODRUGS
00: -
Sustained-release abiraterone prodrug formulations, methods, and kits for parenteral administration to a subject having a sex hormone-dependent benign or malignant disorder such as prostate cancer, a syndrome due to androgen excess, and/or a syndrome due to glucocorticoid excess such as hypercortisolemia.

21: 2021/07399. 22: 2021/09/30. 43: 2023/04/14
51: A61K; A61Q
71: CURASEPT A.D.S. S.R.L.
72: BOIOCCHI, LORENZO EMILIANO
33: IT 31: 102019000003009 32: 2019-03-01
54: ORAL CARE PRODUCT
00: -
The present invention relates to an oral care product, such as a mouthwash, periodontal gel or a toothpaste comprising chlorhexidine and sodium DNA. Said oral care product presents an antibacterial effect effective against gingivitis, bacterial plaque and periodontitis combined with a

healing and anti-inflammatory activity and which, moreover, counteracts the oxidative stress so as to limit the onset and the progression of irritations of the oral mucosae and promote their trophism.

21: 2021/07521. 22: 2021/10/06. 43: 2023/04/11
51: C08J; C10B; C10G
71: BIOBTX B.V.
72: SCHENK, Niels Jan, HEERES, André, KRUIZE-MUIZEBELT, Inouk
33: US 31: 62/826,815 32: 2019-03-29
33: EP 31: 19176932.2 32: 2019-05-28
54: PROCESS FOR THE PREPARATION OF LOW MOLECULAR WEIGHT AROMATIC COMPOUNDS SUCH AS BENZENE, TOLUENE, AND XYLENES (BTX) FROM PLASTICS
00: -

The present invention relates to a novel process for the preparation of low molecular weight aromatic compounds such as benzene, toluene, and xylenes (BTX) from plastics. Provided is a thermo-catalytic pyrolysis process for the preparation of aromatic compounds from a feed stream comprising plastic, comprising the steps of: a) subjecting a feed stream comprising a plastic to a pyrolysis treatment at a pyrolysis temperature in the range of 600-1000°C to produce pyrolysis vapors; b) optionally cooling the pyrolysis vapors to a temperature that is below the pyrolysis temperature; e) contacting the vaporous phase with an aromatization catalyst at an aromatization temperature in the range of 450 700°C, which aromatization temperature is at least 50°C lower than the pyrolysis temperature, in a catalytic conversion step to yield a conversion product comprising aromatic compounds; and d) optionally recovering the aromatic compounds from the conversion product.

21: 2021/07870. 22: 2021/10/15. 43: 2023/05/17
51: A24F; H05B
71: PHILIP MORRIS PRODUCTS S.A.
72: MIRONOV, Oleg, COURBAT, Jerome, Christian, STURA, Enrico
33: EP 31: 19191197.3 32: 2012-08-12
33: EP 31: 19184552.8 32: 2019-07-04
54: AEROSOL-GENERATING DEVICE COMPRISING AN INDUCTIVE HEATING ARRANGEMENT COMPRISING FIRST AND SECOND LC CIRCUITS HAVING DIFFERENT RESONANCE FREQUENCIES
00: -

An aerosol-generating device comprising: an inductive heating arrangement (501) configured to heat an aerosol-forming substrate, the inductive heating arrangement comprising: a susceptor arrangement (310) that is heatable by penetration with a varying magnetic field to heat the aerosol-forming substrate; a first LC circuit, the first LC circuit (510) at least comprising a first inductor coil (512) and a first capacitor (514), wherein the first LC circuit has a first resonance frequency; and a second LC circuit (520), the second LC circuit at least comprising a second inductor coil (522) and a second capacitor (524), wherein the second LC circuit has a second resonance frequency different from the first resonance frequency of the first LC circuit. The inductive heating arrangement (501) further shows a first transistor (516), such as a FET, connected to the first LC circuit (510) and a second transistor (526) connected with the second LC circuit (520). The first transistor (516) is configured for controlling operation (heating) of the first LC circuit (510). The second transistor (526) is configured for controlling operation (heating) of the second LC circuit (520). An aerosol-generating system comprising the aerosol-generating device and an aerosol-generating article comprising an aerosol-forming substrate.

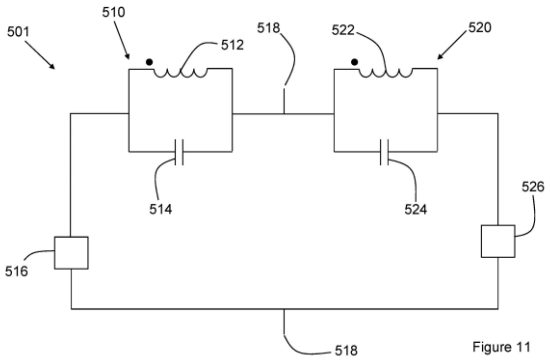
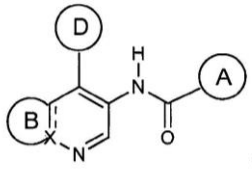


Figure 11

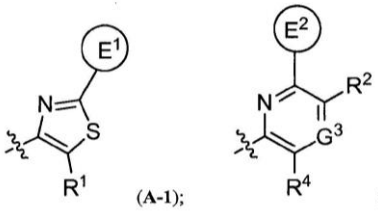
21: 2021/07993. 22: 2021/10/19. 43: 2023/04/18
51: A61K; A61P; C07D; C12Q
71: Shanghai Junshi Biosciences Co., Ltd.
72: FENG, Hui, WU, Hai, YAO, Sheng
33: CN 31: 201910310345.X 32: 2019-04-17
54: USE OF ANTI-PD-1 ANTIBODY IN PREPARATION OF MEDICAMENT FOR TREATING SOLID TUMORS
00: -

Disclosed are use of an anti-PD-1 antibody in treatment of tumors and use of a reagent for detecting gene amplification of chromosome 11q13 region in preparation of a detection kit for predicting the effect of the PD-1 antibody and/or an antigen binding fragment for treating patients having tumors.

21: 2021/08141. 22: 2021/10/22. 43: 2023/04/12
51: A61K; A61P; C07D
71: Incyte Holdings Corporation
72: XUE, Chu-Biao, LI, Yun-Long, FENG, Hao, PAN, Jun, WANG, Anlai, ZHANG, Ke, YAO, Wenqing, ZHANG, Fenglei, ZHUO, Jincong
33: US 31: 61/752,897 32: 2013-01-15
54: THIAZOLECARBOXAMIDES AND PYRIDINECARBOXAMIDE COMPOUNDS USEFUL AS PIM KINASE INHIBITORS
00: -
The present disclosure describes thiazole and pyridine carboxamide derivatives of formula (I) or a pharmaceutically acceptable salt thereof, wherein: X is C or N; A, B and D are rings; the bond- represents a normalized bond within the aromatic ring containing both an N and X, which formally is represented by a C=C bond when X is C and a single bond when X is N; ring A is of the formula (A-l) or (A-2): wherein El and E2 are rings; their compositions and methods of use. The compounds inhibit the activity of the Pim kinases and are useful in the treatment of diseases related to the activity of Pim kinases including, e.g., cancer and other diseases.



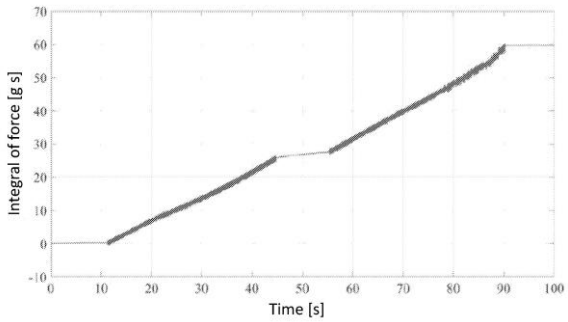
(I);



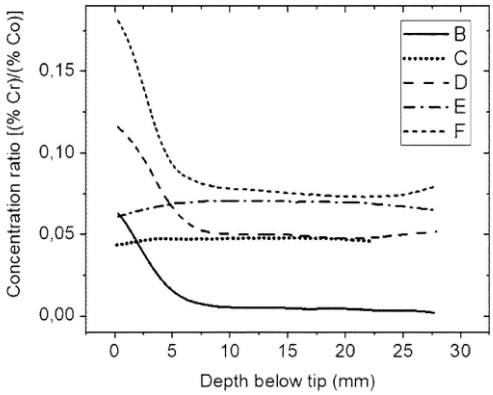
(A-1); (A-2);

21: 2021/08165. 22: 2021/10/22. 43: 2023/04/18
51: A61K; A61P; C12Q
71: Shenzhen Chipscreen Biosciences, Co., Ltd.
72: LU, Xianping, SHAN, Song, PAN, Desi, NING, Zhiqiang
33: CN 31: 201910228411.9 32: 2019-03-25
54: APPLICATION OF KDM5A GENE AND ATRX GENE
00: -
The present invention provides application of KDM5A gene and/or ATRX gene as biomarkers in evaluating efficacy of Chiauranib or guiding administration of Chiauranib, and use of Chiauranib in preparation of drugs for treating small cell lung cancer patients with gene mutations in KDM5A gene or ATRX gene.

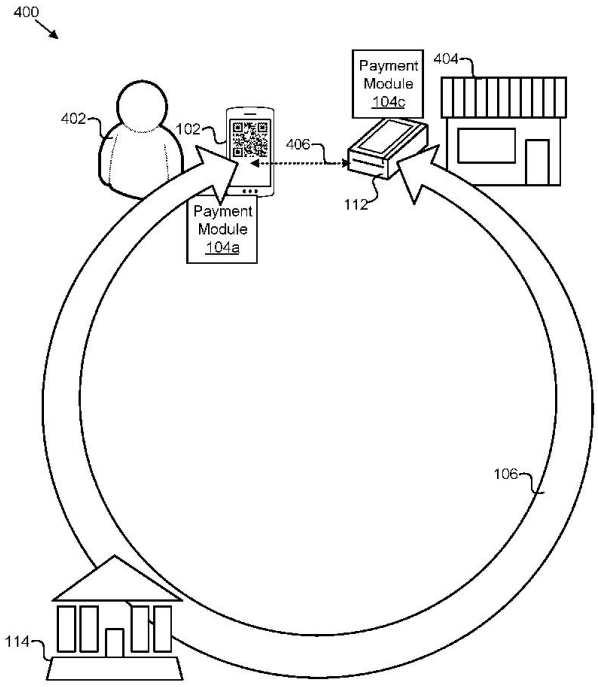
21: 2021/08259. 22: 2021/10/26. 43: 2023/05/26
51: H02K
71: GENERGO S.R.L.
72: TIRELLA, Vincenzo, BRUNETTI, Simone
54: SYSTEM FOR GENERATING A LINEAR MOVEMENT
00: -
The present invention generally relates to a system for generating a linear movement, comprising an electromagnetically charged body (30, MM) which is free to move along a main direction, a static field generator (50, Bob), and two buffer elements (20,40; RM,RM; ML, ML; MA,MA; MF,MF). The movement of the electromagnetically charged body (30, MM) along the main direction is controlled by the static field generator (50, Bob) and by the buffer elements (20,40; RM,RM; ML, ML; MA,MA; MF,MF). The static field generator (50, Bob) is alternately powered with a power profile such as to generate the displacement of the system in one of the two ways along said main direction.



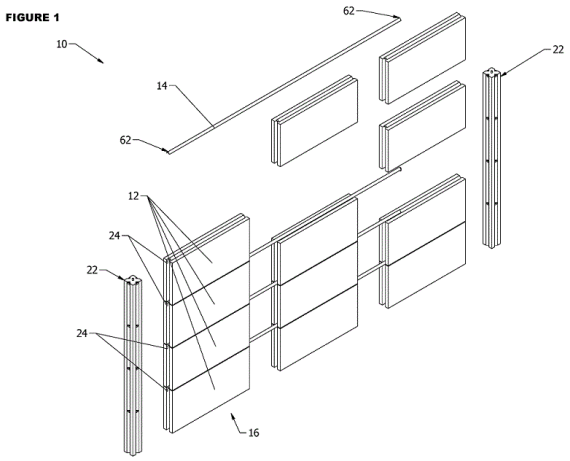
21: 2021/08267. 22: 2021/10/26. 43: 2023/04/18
51: B22F; C22C
71: Sandvik Mining and Construction Tools AB
72: LILJA, Mirjam, BORGH, Ida, ARVANITIDIS, Ioannis, ÅKESSON, Leif, HAI, Xueying, NORGREN, Susanne
33: EP(SE) 31: 19185452.0 32: 2019-07-10
54: GRADIENT CEMENTED CARBIDE BODY AND METHOD OF MANUFACTURING THEREOF
00: -
The present disclosure relates method of making a cemented carbide mining insert, a cemented carbide mining insert with having a chemical and hardness gradient and to the use thereof wherein the cemented carbide mining insert comprises Cr.



21: 2021/08312. 22: 2021/10/27. 43: 2023/04/13
51: G06Q
71: MX TECHNOLOGIES INC.
72: CALDWELL, John Ryan
33: US 31: 62/962,172 32: 2020-01-16
33: US 31: 62/980,899 32: 2021-02-24
54: PAYMENT PROCESSING
00: -
Apparatuses, methods, computer program products, and systems are disclosed for payment processing. An apparatus includes one or more processors and one or more memories that store code executable by the one or more processors to exchange payment information for a transaction wirelessly between a mobile hardware computing device (102) of a user (402) and a hardware payment terminal (112) for a merchant (108, 404), to validate an availability of funds for the transaction using an electronic interface for an account for the user (402) at a third-party institution (114), and to electronically transfer the funds directly from the account for the user (402) to an account for the merchant (108, 404) to complete the transaction.



21: 2021/08580. 22: 2021/11/03. 43: 2023/04/04
51: E04B E04C
71: LAMBERT, Dean
72: LAMBERT, Robert, William
33: ZA 31: 2019/02507 32: 2019-04-23
54: A BUILDING KIT
00: -
The building kit (10) includes a building element (12) which is shaped and configured to allow complementary stacked engagement between a plurality of such building elements (12), a locating member (14) for locating stacks (16) of building elements (12 arranged in a side-by-side manner so as to form a wall (18) of aligned stacks (16), the locating member (14) being sized, shaped and configured to be received complementally between rows (20) of stacked building elements (12), a support means in the form of an elongate support member (22) for supporting the stacks (16) of building elements (12) in the aligned condition and a connecting member (24) for connecting the stacks (16) of building elements (12) to the support member (22).



21: 2021/08645. 22: 2021/11/04. 43: 2023/04/17
51: F25D
71: ARROWSPOT SYSTEMS LTD.
72: GRINSHTAIN, RAN MENACHEM
33: IT 31: 102019000005278 32: 2019-04-05
54: ACTIVE RESPONSE COLD TREATMENT FOR REFRIGERATED CARGO
00: -
Methods and systems are provided for determining an active response during cold treatment of refrigerated cargo during shipment of a refrigeration container (24). Steps include: receiving a set point adjustment protocol (46) for modifying set points of a refrigeration controller (30) of the refrigeration container; during a period of active response operation, receiving temperature signals from a plurality of temperature probes (42) located in the refrigeration container; determining that one or more of the received temperature signals exceeds a temperature threshold defined by the set point adjustment protocol; determining that a temperature trend of the one or more of the received temperature signals meets a trend trigger of the set point adjustment protocol; and, responsively to the temperature threshold and the trend trigger, transmitting a set point change command to the refrigeration controller.

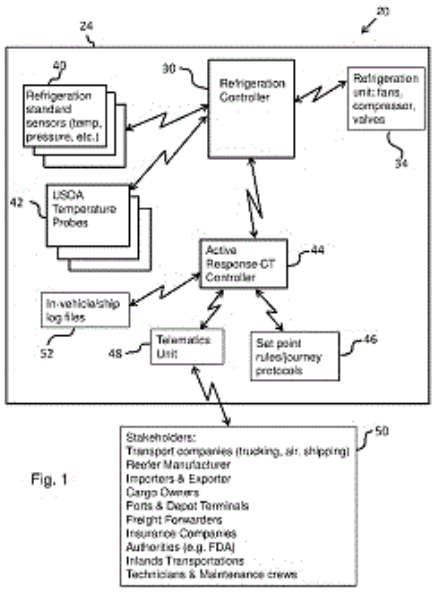


Fig. 1

21: 2021/08758. 22: 2021/11/08. 43: 2023/04/11
51: A01G
71: INTERNATIONAL PLANT PROPAGATION TECHNOLOGY LIMITED
72: COOLEY, John
33: GB 31: 2002603.5 32: 2020-02-25
33: GB 31: 2007835.8 32: 2020-05-26
54: PLANT-GROWING TRAY AND METHOD
00: -
A plant-growing tray comprises a tray top and a plurality of cells extending downwardly from the tray top. Each cell is for containing a substrate for a plant, for the propagation or growth of the plant. Each cell is associated with a catchment area of the tray top, and each catchment area has a sloped surface which, during watering of the plants in the tray, directs water impinging or falling on the catchment area towards the cell.

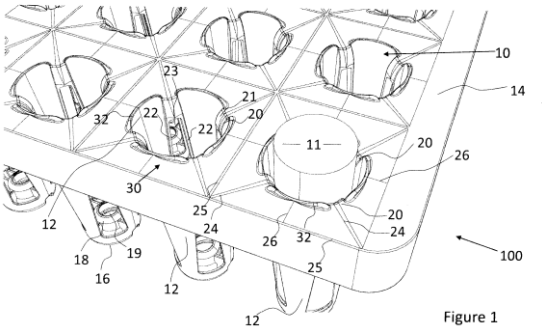


Figure 1

21: 2021/09047. 22: 2021/11/15. 43: 2023/04/18
51: G06F; G10L
71: DOLBY INTERNATIONAL AB
72: VILLEMOES, LARS, PURNHAGEN, HEIKO, EKSTRAND, PER
33: US 31: 62/475,619 32: 2017-03-23
54: BACKWARD-COMPATIBLE INTEGRATION OF HARMONIC TRANSPOSER FOR HIGH FREQUENCY RECONSTRUCTION OF AUDIO SIGNALS
00: -
A method for decoding an encoded audio bitstream is disclosed. The method includes receiving the encoded audio bitstream and decoding the audio data to generate a decoded lowband audio signal. The method further includes extracting high frequency reconstruction metadata and filtering the decoded lowband audio signal with an analysis filterbank to generate a filtered lowband audio signal. The method also includes extracting a flag indicating whether either spectral translation or harmonic transposition is to be performed on the audio data and regenerating a highband portion of the audio signal using the filtered lowband audio signal and the high frequency reconstruction metadata in accordance with the flag.

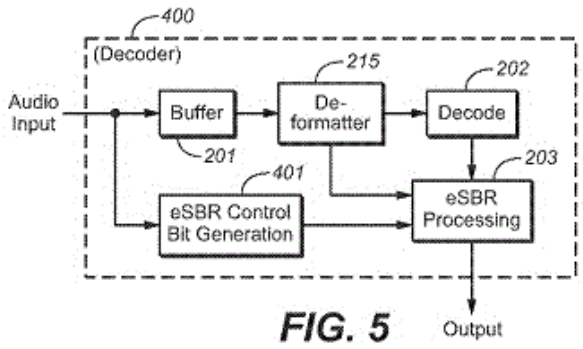
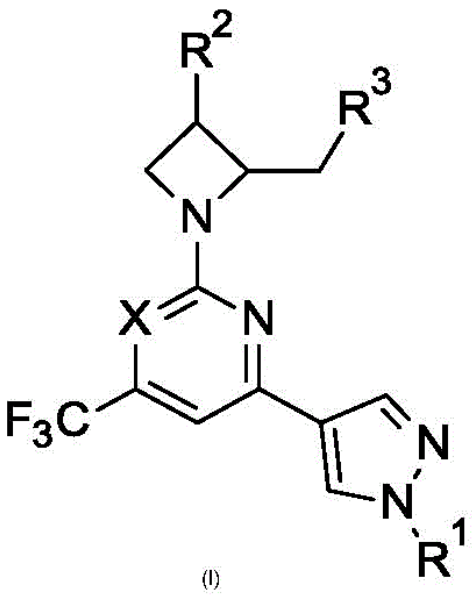


FIG. 5

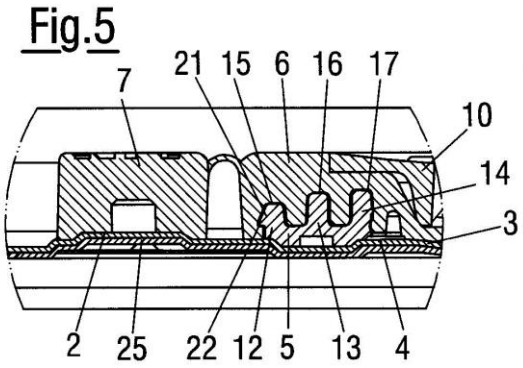
21: 2021/09067. 22: 2021/11/15. 43: 2023/04/18
51: A61K; A61P; C07D
71: Eli Lilly and Company
72: COATES, David Andrew, DURHAM, Timothy Barrett, JOHNSTON, Richard Duane, MASSEY, Steven Marc, SPINAZZE, Patrick Gianpietro, STACK, Douglas Richard, TOTH, James Lee
33: US 31: 62/862,382 32: 2019-06-17
54: DISUBSTITUTED PYRAZOLE COMPOUNDS AS KETOHEXOKINASE INHIBITORS
00: -
The present invention provides a compound of Formula I: or a pharmaceutically acceptable salt thereof, and the use of compounds of Formula I for treating metabolic conditions, such as type 2 diabetes mellitus, heart failure, diabetic kidney disease, and non-alcoholic steatohepatitis.



(I)

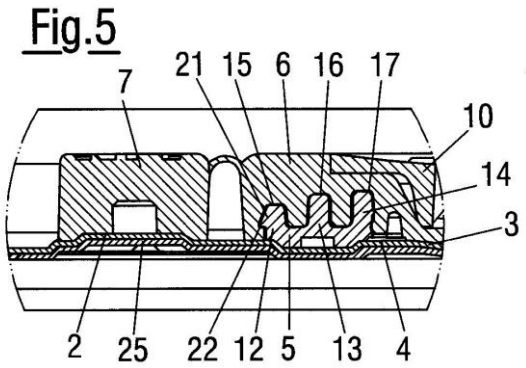
21: 2021/09108. 22: 2021/11/16. 43: 2023/05/11
51: B65D
71: TOP CAP HOLDING GMBH
72: PIECH, Gregor Anton
33: EP 31: 18178561.9 32: 2018-06-19
54: METALLIC CAN LID
00: -
The invention relates to a metallic can lid having a reclosable opening, e.g. for beverage cans, comprising: a microgap or line of weakness provided in the metallic lid surface and surrounding the opening; a sealing frame made of plastic material connected to the fixed lid surface and surrounding

the opening region; and a closure unit made of plastic material which is connected to the upwardly pivotable metallic lid region located within the microgap or the line of weakness and which is pivotably mounted on the fixed lid surface via a pivot bearing and which is preferably provided with a pull-tab element that is connected to the closure unit so as to be pivotable upwards diametrically opposite the pivot bearing, wherein the sealing frame and the closure unit sealingly cooperate, preferably via sealing and engagement ribs and associated receiving grooves, and the metallic lid region located within the peripheral microgap or the line of weakness is received and held in the opening region of the lid, wherein the sealing frame is integrally joined to the fixed lid surface and the closure unit is integrally joined to the upwardly pivotable metallic lid region, wherein the sealing edges are designed such that, when the can lid is opened, the radially innermost sealing edge remains sealed when the radially outer sealing edges have just been released.



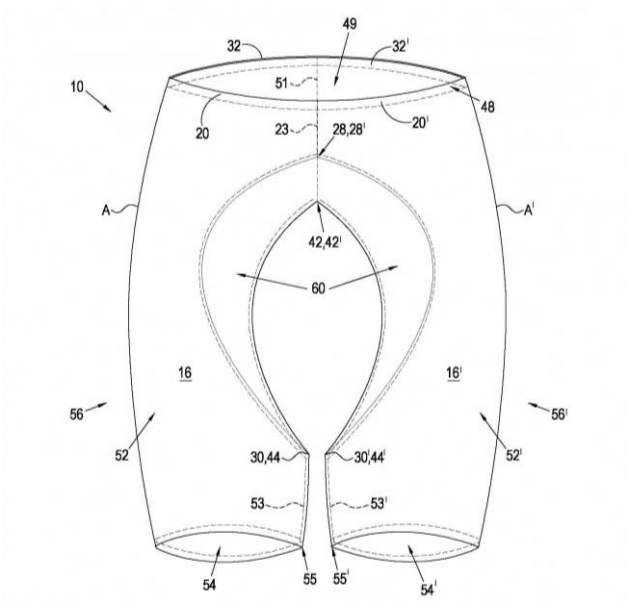
21: 2021/09109. 22: 2021/11/16. 43: 2023/05/11
51: B65D
71: TOP CAP HOLDING GMBH
72: PIECH, Gregor, Anton
33: EP 31: 18178561.9 32: 2018-06-19
54: METALLIC CAN LID
00: -

The invention relates to a metallic can lid having a reclosable opening, e.g. for beverage cans, comprising: a microgap or line of weakness provided in the metallic lid surface and surrounding the opening; a sealing frame made of plastic material connected to the fixed lid surface and surrounding the opening region; and a closure unit made of plastic material which is connected to the upwardly pivotable metallic lid region located within the microgap or the line of weakness and which is pivotably mounted on the fixed lid surface via a pivot bearing and which is preferably provided with a pull-tab element that is connected to the closure unit so as to be pivotable upwards diametrically opposite the pivot bearing, wherein the sealing frame and the closure unit sealingly cooperate, preferably via sealing and engagement ribs and associated receiving grooves, and the metallic lid region located within the peripheral microgap or the line of weakness is received and held in the opening region of the lid, wherein the sealing frame is integrally joined to the fixed lid surface and the closure unit is integrally joined to the upwardly pivotable metallic lid region, wherein the sealing edges are designed such that, when the can lid is opened, the radially innermost sealing edge remains sealed when the radially outer sealing edges have just been released.

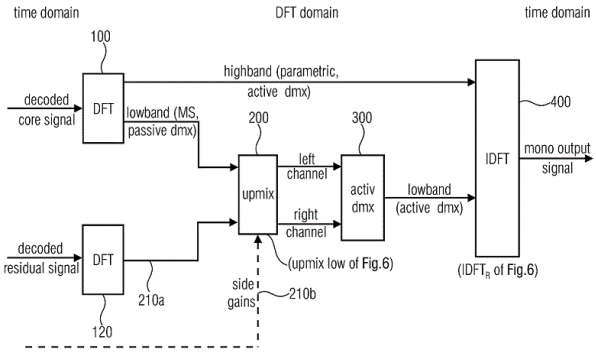


21: 2021/09293. 22: 2021/11/19. 43: 2023/04/24
51: A41B; A61L
71: GOVENDER, Jeremy
72: GOVENDER, Jeremy
33: ZA 31: 2020/05204 32: 2020-08-21
54: UNDERGARMENT
00: -

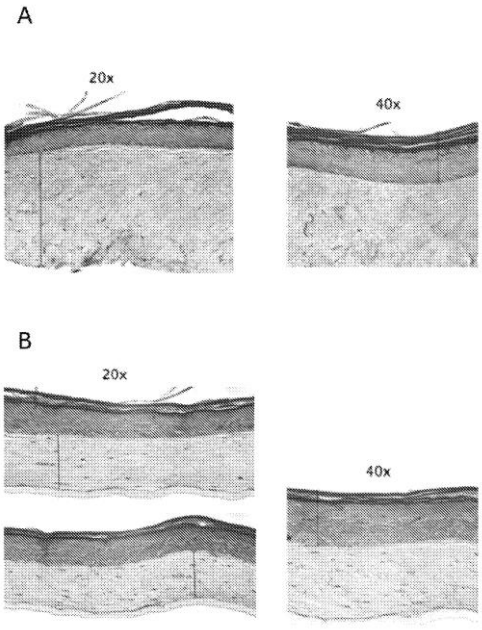
The invention relates to an undergarment that defines an opened crotch for exposing the genitals/pudendum of a wearer thereof. The undergarment is coated or impregnated with an antimicrobial agent that is arranged to interact with bacteria on the human skin or bacteria released from the pudendum of the wearer, so as to reduce or prevent odours.



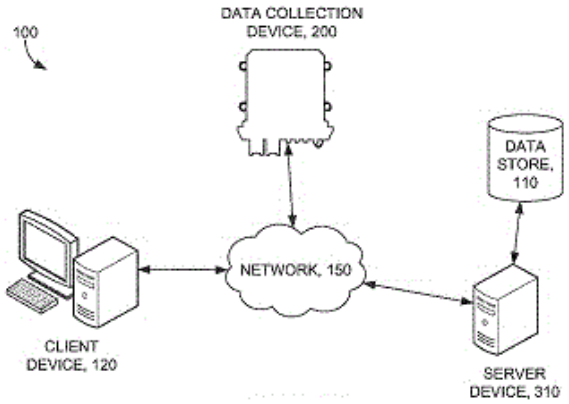
21: 2021/09418. 22: 2021/11/23. 43: 2023/04/11
51: H04S G10L
71: FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V.
72: REUTELHUBER, Franz, FOTOPOULOU, Eleni, MULTRUS, Markus
33: EP 31: 19170621.7 32: 2019-04-23
33: EP 31: PCT/EP2019/070376 32: 2019-07-29
54: APPARATUS, METHOD OR COMPUTER PROGRAM FOR GENERATING AN OUTPUT DOWNMIX REPRESENTATION
00: -
An apparatus for generating an output downmix representation from an input downmix representation, wherein at least a portion of the input downmix representation is in accordance with a first downmixing scheme, comprises: an upmixer (200) for upmixing at least the portion of the input downmix representation using an upmixing scheme corresponding to the first downmixing scheme to obtain at least one upmixed portion; and a downmixer (300) for downmixing the at least one upmixed portion in accordance with a second downmixing scheme different from the first downmixing scheme.



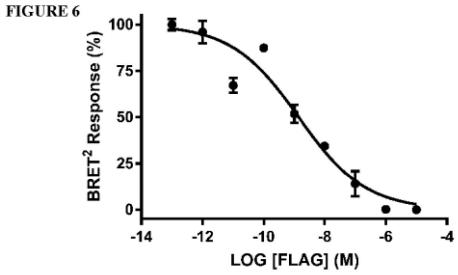
21: 2021/09421. 22: 2021/11/23. 43: 2023/04/11
51: A61K; A61Q
71: LAC2BIOME S.R.L.
72: BIFFI, Andrea
33: IT 31: 102019000008097 32: 2019-06-05
54: COMPOSITIONS COMPRISING A BACTERIAL STRAIN LACTOBACILLUS PARACASEI AND HYALURONIC ACID AND THE USE THEREOF FOR THE TREATMENT OF THE SKIN
00: -
The present invention relates to a composition comprising probiotics (live and viable or inactivated bacterial strains) and hyaluronic acid or a salt thereof for use in the prevention, in the treatment (therapeutic or cosmetic curative) or in the attenuation of at least one sign or symptom associated with, or caused by, an skin aging or by a reduction in the immune defences of the skin or by an inflammation/infection of the skin, such as an inflammation induced or caused by UV rays.



21: 2021/09434. 22: 2021/11/23. 43: 2023/04/20
51: H04W; G01C; G05D; G06F
71: AGI SURETRACK LLC
72: FREUDENHAMMER, JOSHUA, MOLA, DANIEL
33: US 31: 16/418,632 32: 2019-05-21
54: DETERMINING ACTIVITY SWATH FROM MACHINE-COLLECTED WORKED DATA
00: -
Embodiments of the present disclosure provide for tracking of collected machine or agronomic worked data to provide detailed analytical output. In various embodiments, a plurality of data points associated with a course of traversal within a collection area is obtained. Each point of the plurality of data points corresponds to a location within the collection area and includes a corresponding set of spatial coordinates. A distribution is generated based on the spatial coordinates. The distribution includes an identified set of occurrences associated with one of the spatial coordinates of the set of spatial coordinates. The distribution is input into a Fourier transform to determine a set of frequencies associated with identified peaks. An effective coverage width, which is the distance corresponding to a peak in the Fourier transform, is determined based on the set of frequencies associated with the identified peaks.

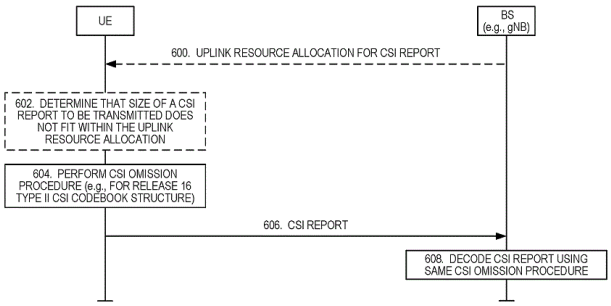


21: 2021/09785. 22: 2021/11/30. 43: 2023/04/24
51: C12Q; G01N
71: Commonwealth Scientific and Industrial Research Organisation
72: SCOBLE, Judith, WILLIAMS, Charlotte, NUTTALL, Stewart, SURJADI, Regina, DACRES, Helen, TROWELL, Stephen
33: AU 31: 2019901483 32: 2019-05-01
54: IMMUNOSENSOR
00: -
The present invention relates to methods for detecting analytes in a sample. The methods may also be used to determine the amount of analyte in the sample. The present invention also relates to antibody or antibody-like molecules and labelled antigens for use in these methods.



21: 2021/09823. 22: 2021/12/01. 43: 2023/04/11
51: H04B
71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)
72: FAXÉR, Sebastian
33: US 31: 62/843,048 32: 2019-05-03
54: CSI OMISSION RULES FOR ENHANCED TYPE II CSI REPORTING
00: -
Systems and methods for Channel State Information (CSI) omission for enhanced Type II CSI reporting are provided. In one embodiment, a method

performed by a wireless device for CSI reporting in a cellular communications system comprises performing a CSI omission procedure to omit a deterministic portion of Uplink Control Information (UCI) for a CSI report and thereby provide a reduced-size CSI report. Performing the CSI omission procedure comprises dividing a plurality of Linear Combination (LC) coefficients into two or more CSI omission groups having associated priority levels and, based on the priority levels of the two or more CSI omission groups, omitting LC coefficients comprised in at least one of the two or more CSI omission groups from the reduced-size CSI report. The method further comprises transmitting the reduced-size CSI report. In this manner, a deterministic portion of the UCI is omitted to provide the reduced-size CSI report.



21: 2021/09844. 22: 2021/12/01. 43: 2023/04/24
51: A61F
71: Edwards Lifesciences Corporation
72: SCHWARCZ, Elazar Levi, COHEN, Oren, DVORSKY, Anatoly, SIROTE, Natanel Simcha
33: US 31: 62/945,010 32: 2019-12-06
54: FLEX SENSORS FOR MEASURING REAL-TIME VALVE DIAMETER DURING PROCEDURE
00: -
A delivery assembly constituted of: a prosthetic valve comprising a plurality of intersecting struts, and a delivery apparatus comprising: a handle; a delivery shaft extending distally from the handle; and a flex sensing assembly, comprising: at least one flex sensor coupled to at least one of the plurality of struts; and a control unit in communication with the at least one flex sensor, wherein the prosthetic valve is movable between a radially compressed configuration and a radially expanded configuration, and wherein, responsive to an output of the at least one flex sensor, the control unit is configured to generate a signal indicative of a diameter of the prosthetic valve.

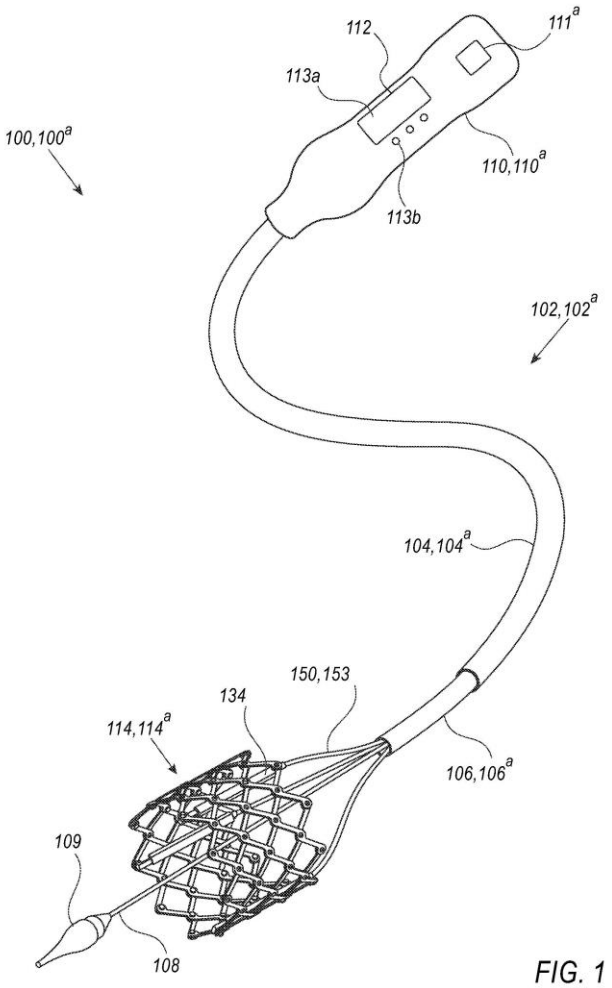
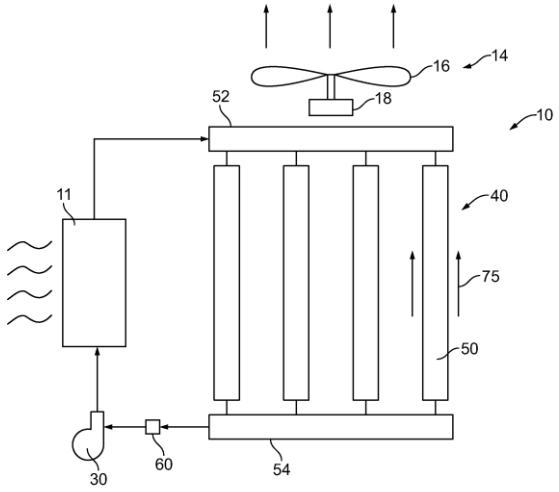


FIG. 1

21: 2021/09895. 22: 2021/12/02. 43: 2023/04/11
51: F28F
71: BALTIMORE AIRCOIL COMPANY, INC.
72: EGOLF, Kevin Ellsworth, ROUSSELET, Yohann Lilian
33: US 31: 62/857,113 32: 2019-06-04
54: TUBULAR MEMBRANE HEAT EXCHANGER
00: -
In one aspect, a tubular membrane assembly is provided for a heat exchanger. The tubular membrane assembly includes a header having a header body, a tubular membrane, and a fitting connecting the tubular membrane to the header body. The fitting is configured to form a fluid tight connection between the fitting and the tubular membrane. The tubular membrane assembly further

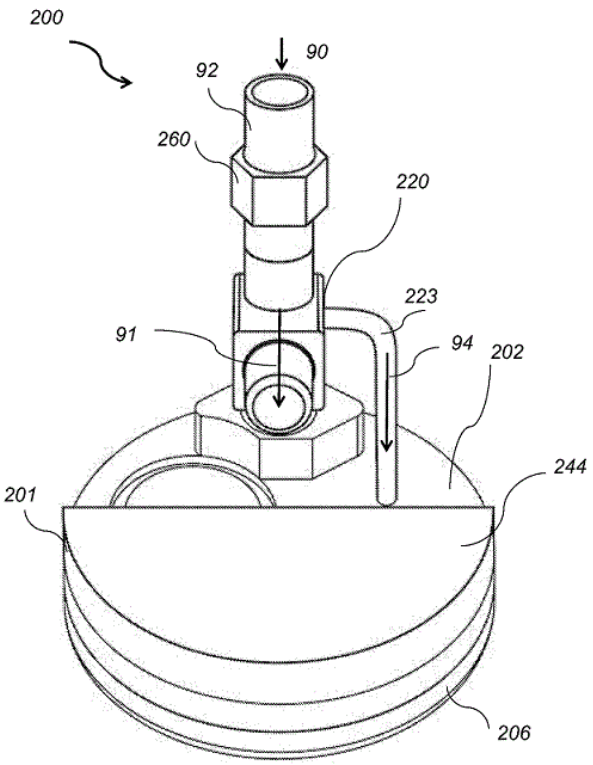
includes potting of the header keeping the tubular membrane connected to the fitting.



21: 2021/09981. 22: 2021/12/03. 43: 2023/04/18
51: B01D; C02F
71: Kemira Oyj
72: HESAMPOUR, Mehrdad, PENTTINEN, Matias
33: EP(FI) 31: 19179195.3 32: 2019-06-07
54: DEWATERING AIDS
00: -
The invention relates to filter aids for use in industrial processes such as metal ore beneficiation dewatering and filtering processes, paper and pulp dewatering processes and sludge dewatering in municipal waste treatment. The filter aid comprises at least one anionic polystyrene polymer having a molecular weight in the range 200kDa - 500kDa and/or at least one anionic naphthalene and provides increased filtering efficiency, and reduced filter cake moisture levels.

21: 2021/10040. 22: 2021/12/06. 43: 2023/03/15
51: A61K
71: PHILIP MORRIS PRODUCTS S.A.
72: MY LY LAO STAHL, HEIDI ZIEGLER BRUUN, BRUNO PROVSTGAARD NIELSEN, JESPER NEERGAARD, BINE HARE JAKOBSEN
33: DK 31: PA 2019 00698 32: 2019-06-07
33: DK 31: PA 2019 70610 32: 2019-09-30
33: DK 31: PA 2019 70612 32: 2019-09-30
33: DK 31: PA 2019 70611 32: 2019-09-30
54: ORAL POUCHED PRODUCT
00: -
An oral pouched product is disclosed, the oral pouched product comprising a saliva permeable pouch, a pouch composition, the pouch composition comprising heat- treated fibers, nicotine, water in an amount of less than 65% by weight of the pouch composition, and at least one sugar alcohol. Also, a method for manufacturing an oral pouched product is disclosed.

21: 2021/10092. 22: 2021/12/07. 43: 2023/04/11
51: A47K B05B E03C
71: OASENSE
72: TANG, Chih-Wei, LI, Kuan-Teh, ROWAN, Natalie, SCHNEIDER, Evan
33: US 31: 16/406,143 32: 2019-05-08
54: ELECTRONIC SHOWERHEAD DEVICE
00: -
An electronic showerhead device for automatically controlling water flow includes a showerhead body, a presence detector located within the showerhead body, a first water channel providing a primary water stream existing the showerhead body, and a second water channel providing a secondary water stream existing the showerhead body. Turning on a main water valve turns on the second water channel, while the first water channel remains off. Interruption of the presence interrogation beam area by a person or an object turns on the first water channel.

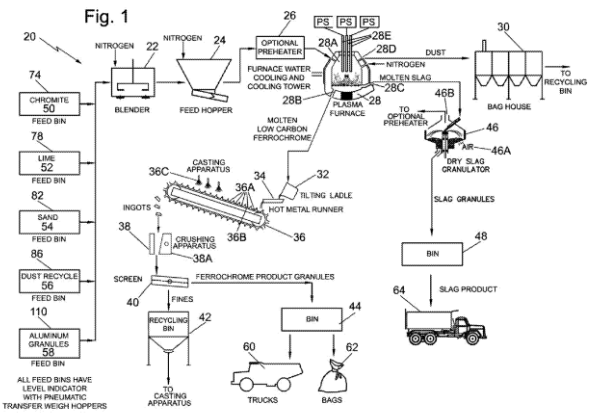


21: 2021/10214. 22: 2021/12/09. 43: 2023/04/11
51: C12Q C12N
71: SAMI-SABINSA GROUP LIMITED
72: MAJEED, Muhammed, NAGABHUSHANAM, Kalyanam, ALI, Furqan, ARUMUGAM, Sivakumar, MAJEED, Shaheen, BEEDE, Kirankumar

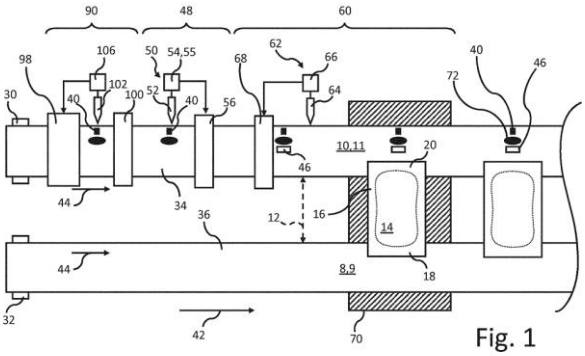
54: FRUCTOPHILIC LACTIC ACID PRODUCING BACTERIA
00: -
The present invention discloses a novel fructophilic lactic acid producing bacteria Bacillus coagulans strain FF-7 (MTCC 25235) and the process of isolation and characterization of the bacteria. The invention also discloses the biological applications/therapeutic use of fructophilic lactic acid producing bacteria in increased utilization of fructose from food stuff and in the managing disorders related to high fructose intake.

21: 2021/10215. 22: 2021/12/09. 43: 2023/06/02
51: G01N
71: ARCEDI BIOTECH APS
72: NICOLAISEN, Bolette Hestbek, KØLVRAA, David Mathias Martin Leiding, CHRISTENSEN, Inga Baasch, RAVN, Katarina, JEPPESEN, Line Dahl, HATT, Lotte, JENSEN, Palle Schelde, SINGH, Ripudaman
33: EP 31: 19179087.2 32: 2019-06-07
54: ISOLATION OF FETAL CELLS USING FACS
00: -
The present invention relates to automated methods for isolating fetal cells from a sample, such as a blood sample, derived from a pregnant woman. The isolated fetal cells can be used for identifying genetic abnormalities in the fetal DNA.

21: 2021/10259. 22: 2021/12/10. 43: 2023/04/11
51: C22B; C22C
71: MM METALS USA, LLC
72: SHAW, Daniel, SAVILLE, James (deceased), WILLIAMS, John, MUSTOE, Trevor N.
33: US 31: 16/454,283 32: 2019-06-27
54: METHOD AND SYSTEM FOR PRODUCING LOW CARBON FERROCHROME FROM CHROMITE ORE AND LOW CARBON FERROCHROME PRODUCED THEREBY
00: -
A method and system for recovering a high yield of low carbon ferrochrome from chromite and low carbon ferrochrome produced by the method. A stoichiometric mixture of feed materials including scrap aluminum granules, lime, silica sand, and chromite ore are provided into a plasma arc furnace. The scrap aluminum granules are produced from used aluminum beverage containers. The feed materials are heated, whereupon the aluminum in the aluminum granules produces an exothermic reaction reducing the chromium oxide and iron oxide in the chromite to produce molten low carbon ferrochrome with molten slag floating thereon. The molten low carbon ferrochrome is extracted, solidified and granulated into granules of low carbon ferrochrome. The molten slag is extracted, solidified and granulated into granules of slag.



21: 2021/10473. 22: 2021/12/15. 43: 2023/04/11
51: A61F B65H
71: PAUL HARTMANN AG
72: BUCH, Tamara, EILERS, Jörg, SCHMIDT, Ann-Cathrin, BEYRLE, Andreas
33: DE 31: 10 2019 114 136.2 32: 2019-05-27
54: METHOD FOR PRODUCING INCONTINENCE ARTICLES
00: -
Method for producing incontinence briefs in a production machine, with a front abdominal portion and a rear back portion, wherein a first flat material web forming rear back portion components and a second flat material web forming front abdominal portion components are delivered continuously in a machine longitudinal direction, and wherein the first/second flat material web has orientation marks arranged one after another in the machine longitudinal direction, characterized in that, in the production machine, a respective orientation mark is detected by means of a first sensor and in that, in accordance with the time point of a respective detection, a pressing device arranged downstream in the machine longitudinal direction is actuated in order to apply an identifying means to the abdominal portion/back portion, such that the identifying means is applied, in the machine longitudinal direction, in a predetermined relationship to the respective orientation mark detected by means of the first sensor, and in that, in the production machine, a respective orientation mark is detected by means of a second sensor and in that, in accordance with the time point of a respective detection, the first and/or the second flat material web is accelerated or slowed down or transported onwards at constant speed in such a way that the arrangement of the respective crotch portions in the positioning station in the machine longitudinal direction is in a predetermined relationship to the respective orientation mark detected by means of the second sensor, and wherein the same orientation marks are detected by means of the first sensor and by means of the second sensor.



21: 2021/10613. 22: 2021/12/17. 43: 2023/03/09
51: A61K; C07K; A61P
71: DIAZ, Ricardo, SAVARINO, Andrea, SHYTAJ, Iart, CUNHA, Daniele Lunha da
72: DIAZ, Ricardo, SAVARINO, Andrea, SHYTAJ, Iart
33: US 31: 62/859,286 32: 2019-06-10
54: METHOD FOR DEFINING A PERSONALIZED VACCINE AGAINST HIV/AIDS
00: -
A novel approach for developing a personalized vaccine. This approach is based on: A) sequencing of the gag gene of an individual infected with HIV undergoing antiretroviral treatment, B) sequencing of the HLA alleles from the same individual, C) selection of the epitopes recognized by the HLA class I of the individual in the highly conserved amino acid sequences Gag256-377, Gag147-169 and/or Gag225-251. An original algorithm that designs the target peptide for the vaccine using HLA and viral sequences from an individual with HIV/AIDS is at the heart of the present invention. The original algorithm makes extensive use of existing open source software for protein design. The peptides designed in this manner and subsequently synthesized can be explored as a therapeutic vaccine against HIV/AIDS. The vehicles for these peptides can be dendritic cells from an individual pulsed with the combination of peptides or a viral vector or specific DNA, leading to the

intracellular expression of the viral peptides. The present vaccine approach could help to control viremia once antiretroviral treatment has been stopped.

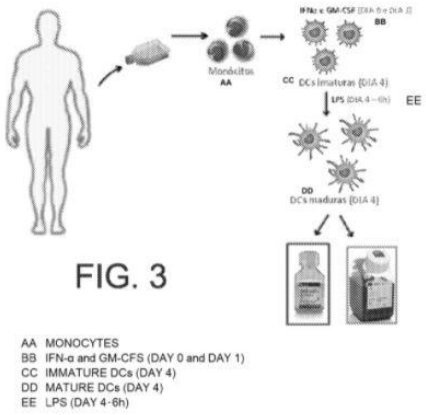
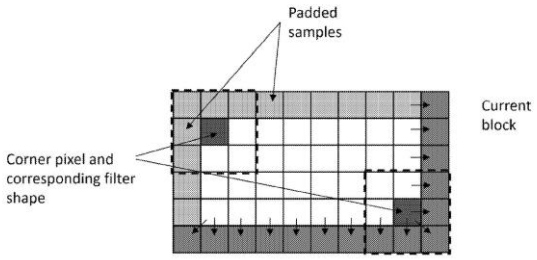


FIG. 3

AA MONOCYTES
BB IFN-α and GM-CFS (DAY 0 and DAY 1)
CC IMMATURE DCs (DAY 4)
DD MATURE DCs (DAY 4)
EE LPS (DAY 4-6h)

21: 2021/10751. 22: 2021/12/21. 43: 2023/04/24
51: H04N
71: Huawei Technologies Co., Ltd.
72: IKONIN, Sergey Yurievich, STEPIN, Victor Alexeevich, KARABUTOV, Alexander Alexandrovich
33: PCT/RU 31: 2019/050090 32: 2019-06-18
33: PCT/RU 31: 2019/050091 32: 2019-06-18
54: APPARATUS AND METHOD FOR FILTERING IN VIDEO CODING
00: -
The present disclosure relates a filter, to an encoder and a decoder using the filter, to a filtering method and a corresponding program, as well as to encoding and decoding using the filtering method or the filter. The filtering includes obtaining of an extended reconstructed block by extending the current reconstructed block to include at least padding samples from the current reconstructed block. After the padding, a current pixel of the extended reconstructed block and its neighboring pixels are loaded into a linear buffer and transformed with a 1D transform. The filtering is performed in frequency domain using a look-up table and the filtered pixels are transformed back.



21: 2022/00268. 22: 2022/01/05. 43: 2023/04/11
51: A61K C07D A61P
71: MANKIND PHARMA LTD.
72: PATIL, Rakesh, Iswar, ALI, Sazid, BAPURAM, Srinivasa, Reddy, RAI, Santosh, Kumar, KUMAR, Anil
33: IN 31: 201911027191 32: 2019-07-08
54: COMBINATION THERAPY OF GPR119 AGONISTS AND DPP-4 INHIBITORS
00: -
The present invention relates to combinations of GPR119 receptor agonists with DPP-4 inhibitors and their use thereof for treating or preventing cardiovascular and metabolic disorders, including diabetes mellitus, non-alcoholic fatty liver disease (NAFLD), NAFL, NASH, dyslipidemia, and related disorders thereto.

21: 2022/00892. 22: 2022/01/19. 43: 2023/03/28
51: H04N
71: Huawei Technologies Co., Ltd.
72: CHEN, Huanbang, YANG, Haitao
33: CN 31: 201811053068.0 32: 2018-09-10
54: VIDEO DECODING METHOD AND VIDEO DECODER
00: -
The present invention discloses a video decoding method and a video decoder. The method includes: parsing a received bitstream to obtain a to-be-entropy-decoded syntax element in a current block, where the to-be-entropy-decoded syntax element in the current block includes a syntax element 1 or a syntax element 2 in the current block; obtaining a context model corresponding to the to-be-entropy-decoded syntax element, where a context model corresponding to the syntax element 1 is determined from a preset context model set, or a context model corresponding to the syntax element 2 is determined from the context model set; performing entropy decoding on the to-be-entropy-decoded syntax

element based on the context model corresponding to the to-be-entropy-decoded syntax element in the current block; performing prediction processing on the current block based on a syntax element that is in the current block and that is obtained through entropy decoding, to obtain a prediction block of the current block; and obtaining a reconstructed image of the current block based on the prediction block of the current block. According to the present invention, less storage space can be occupied by a context model.

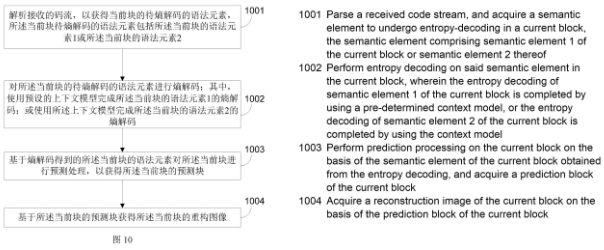


图 10

21: 2022/00896. 22: 2022/01/19. 43: 2023/04/11
51: B66D
71: COLUMBUS MCKINNON INDUSTRIAL PRODUCTS GMBH
72: STRUCK, Detlef, SCHNEEBECK, Wolfram
33: DE 31: 10 2019 120 036.9 32: 2019-07-24
54: LIFTING GEAR
00: -
The invention relates to lifting gear, in particular a lever hoist (1). This comprises a housing (2) in which a load chain wheel (17) and a driveshaft (20) driving the load chain wheel (17) via a transmission (18) are rotatably mounted, as well as a drive (12), a load pressure brake (16) and a safety brake (30). A load chain (10) can be moved via the load chain wheel (17). The safety brake (30) brings about an emergency braking in the event of excessive rotational speed of the driveshaft (20). The safety brake (30) comprises a locking disc (30) with locking teeth (33) and a control disc (34) with control cams (35), as well as a catch hook (36). The locking disc (32) and the control disc (34) can be rotated in a limited manner in relation to one another. The rotation is limited by a rotation limiter (47). The catch hook (36) is arranged such that it moves in a swivelling manner and has a latch contour (56) at a front end (55) and a sensing contour (61) at a rear end (60). The sensing contour (61) rests on the control disc (34) under the influence of a spring element (44). When a defined rotational speed is exceeded, the sensing contour (61) of the catch hook (36) lifts off the control disc (34). The latch contour (56) rotates towards the locking disc (32) and lockingly engages with a locking tooth (33) of the locking disc (32).

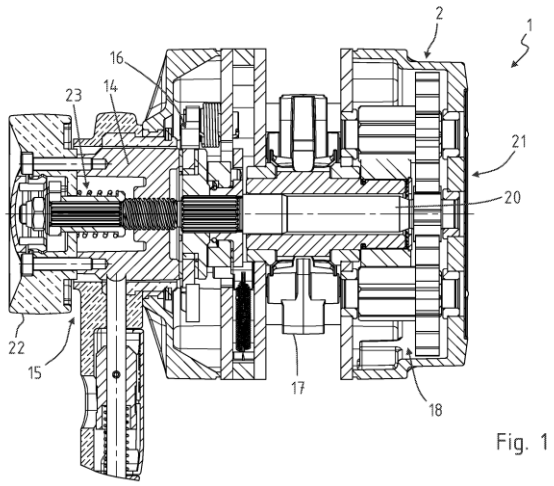
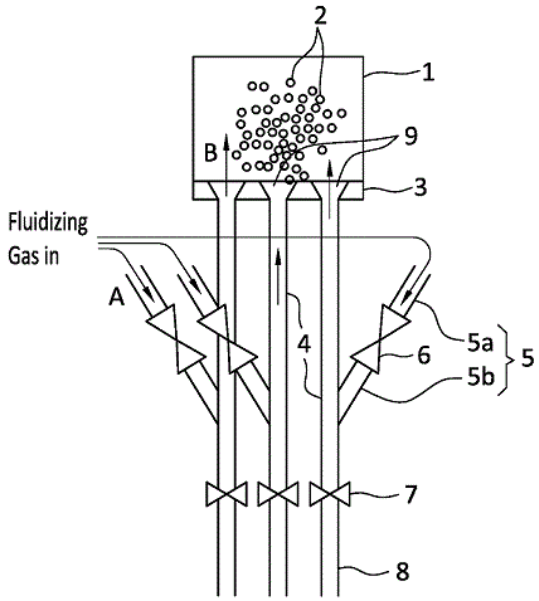


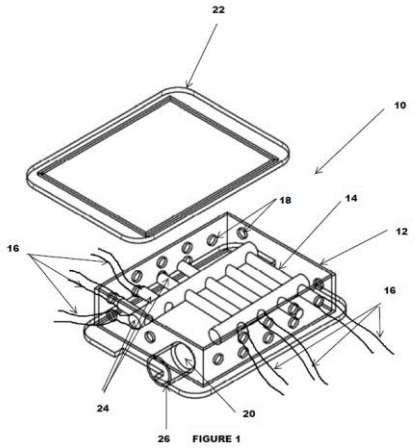
Fig. 1

21: 2022/00897. 22: 2022/01/19. 43: 2023/04/11
51: B01J
71: X ENERGY, LLC
72: KIM, Howard Taery
33: US 31: 16/453,571 32: 2019-06-26
54: FLUIDIZED BED REACTOR SYSTEM ALLOWING PARTICLE SAMPLING DURING AN ONGOING REACTION
00: -
A fluidized gas reactor includes a system for preventing a fluidizing gas comprising a reactant from premature reaction. The fluidized gas reactor includes a reaction chamber including a particle bed; a gas distribution plate having a plurality of openings therethrough, wherein each opening opens into the reaction chamber; and a plurality of vertical fluidizing gas inlet tubes, each of the fluidizing gas inlet tubes being in fluid communication with one of the openings in the gas distribution plate. Each fluidizing gas inlet tube is configured to receive a fluidizing gas and transport the fluidizing gas to the reaction chamber. A fluidizing gas source provides a stream of the fluidizing gas to the fluidizing gas inlet tubes. A coolant system prevents the fluidizing gas from undergoing reaction before entering the reaction chamber. The coolant system has a fluid inlet; a coolant flow path in fluid communication with the fluid inlet, the coolant flow path being configured to

cool each fluidizing gas inlet tube; and a fluid outlet in fluid communication with the coolant flow path. Each fluidizing gas inlet tube may include a particle outlet and a valve system, where the valve system allows the fluidizing gas flow to the fluidizing gas inlet tubes to be stopped; and allows recovery of particles from the particle bed while the fluidizing gas flow is stopped.



21: 2022/00934. 22: 2022/01/20. 43: 2023/04/04
51: E03C
71: BEITH, Gareth, Anthony
72: BEITH, Gareth, Anthony
33: ZA 31: 2020/06784 32: 2020-10-30
54: A PLUMBING DEVICE
00: -
A plumbing device (10) includes a receptacle (12) which is sized, shaped and configured to receive a tubing connector (14) and portions of a plurality of flexible tubes (16) therein which are interconnected by the tubing connector (14), a plurality of apertures (18) defined in at least one peripheral side wall region of the receptacle (12) for receiving portions of the flexible tubes (16) therethrough which extend from the tubing connector (14), and a drainage outlet (20) defined in the receptacle (12) which is configured to allow drainage of fluid (not shown) which has leaked into the receptacle (16) from the tubing connector (14) and the portions of the flexible tubes (16) received by the receptacle (16).



21: 2022/01231. 22: 2022/01/26. 43: 2023/04/11
51: H04L
71: INNOVATIONSZENTRUM FÜR TELEKOMMUNIKATIONSTECHNIK GMBH IZT
72: HIRSCHBECK, Martin
33: DE 31: 10 2019 209 801.0 32: 2019-07-03
54: RECEIVER FOR RECEIVING A COMBINATION SIGNAL TAKING INTO ACCOUNT INTERSYMBOL INTERFERENCE AND LOW COMPLEXITY, METHOD FOR RECEIVING A COMBINATION SIGNAL, AND COMPUTER PROGRAMME
00: -
The invention relates to a receiver for receiving a combination signal comprising two separate signal components, the pulses of which are shifted relative to each other and/or the carrier oscillations of which have a phase difference, said receiver being designed to obtain a first series of sample values using a first sample and also being designed to obtain a second series of sample values using a second sample. The first sample is adapted to a symbol phase of the first signal component and the second sample is adapted to a symbol phase of the second signal component. The receiver is also designed to obtain probabilities of transmission symbols of the first signal component and probabilities of transmission symbols of the second signal component for a plurality of sample times based on the first series of sample values and on the second series of sample values. The receiver is designed to determine probabilities for transmission symbols of the first signal component based on sample values of the first sample and estimated or calculated probabilities for transmission symbols of the second signal component without taking into account intersymbol interference between

transmission symbols of the first signal component in the sample values of the first sample. The receiver also determines probabilities for symbols of the second signal component in a corresponding manner. The invention also relates to a corresponding method and to a corresponding computer programme.

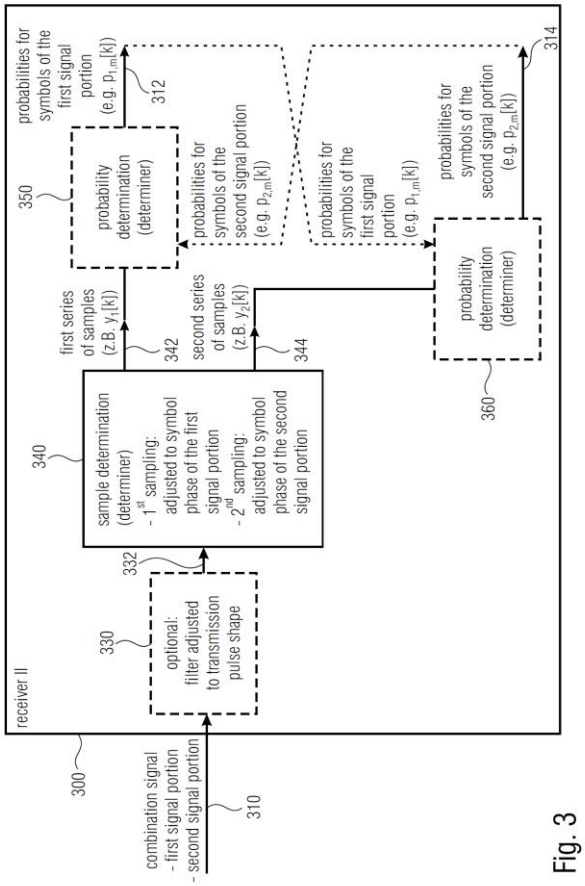


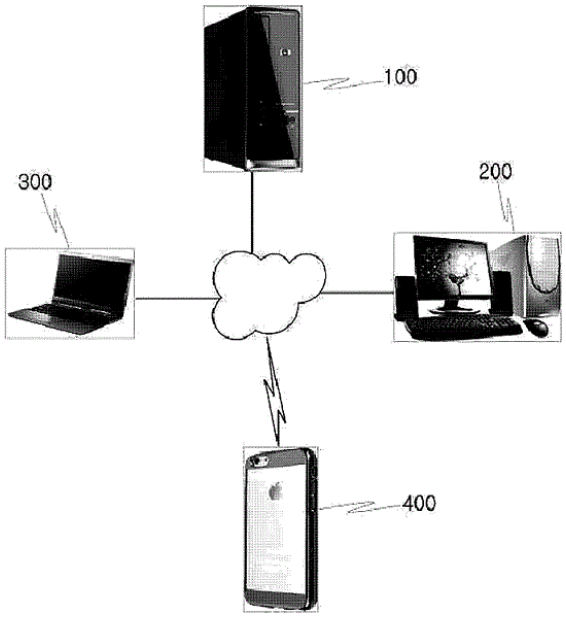
Fig. 3

21: 2022/01233. 22: 2022/01/26. 43: 2023/04/11
51: G06Q
71: YANG, Hong Sun
72: YANG, Hong Sun
33: KR 31: 10-2019-0147608 32: 2019-11-18

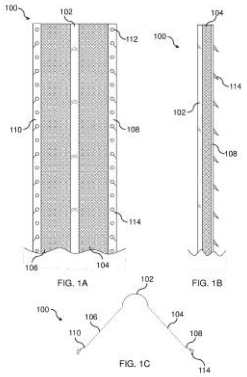
54: ONLINE SHARING SYSTEM FOR WARRANT TO RECEIVE AND SHARING METHOD OF RECEIVABLE RIGHT

00: -

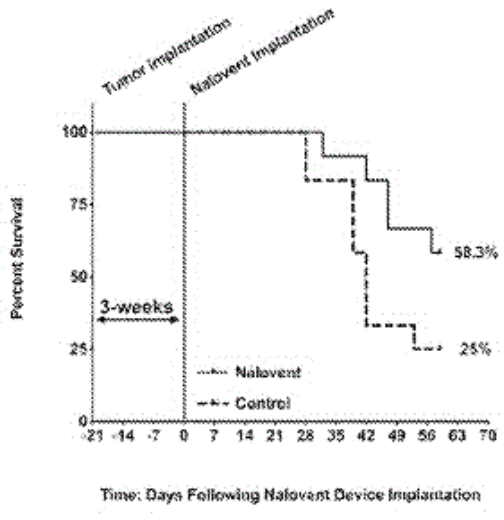
Disclosed are a system and a method for sharing rights to be received. The disclosed system and method for sharing rights to be received is a method in which: property rights are divided for an intellectual property rights holder including patent rights or an intangible asset rights holder including business rights and joint registration thereof is not performed; only rights to receive royalties that the rights holder will receive in the future according to exercising of the intangible asset or intellectual property rights, or the like, that is, rights to receive royalties for sales or operating profits, or the like, is divided so as to issue an electronic rights certificate for the rights; and a limited amount of the electronic rights certificate is issued by limiting the quantity, transaction unit, total issuance, or the like such that the transaction can be conveniently performed, from the perspective of an issuer, with the currency of each country at a 1:1 exchange value. Stakes of the rights to be received of transaction participants are shared, it is assumed that sales or operating profits by using the corresponding intangible asset, intellectual property right or the like will be generated in the future, a certain ratio is set, and a royalty amount to be received is determined, and then the transaction participants can divide and sell the rights by stake to a third party in proportion to the stake of the issued electronic rights certificate according to the size of purchased capital of the rights, such that the rights to receive royalties is allowed to be freely transferred or sold to a third party without infringement, by the third party, of license rights for the intellectual property rights of a creator or the asset of an intangible asset holder. In addition, in the system for sharing a rights to be received of the present invention, all third rights holders and repurchasers, who have purchased the rights to receive future royalties that only the intellectual property rights holder or the intangible asset holder have received, can receive a differential payment of royalties through an automatic calculation, with respect to sales or operating profits generated by using the corresponding intellectual property rights or intangible asset, wherein the royalties are as much as the percentage, purchased by and allocated to the third rights holders and repurchasers, of the ratio of future royalty payments with respect to the total sales registered and presented online by the intellectual property rights holder in the same system.



21: 2022/01237. 22: 2022/01/26. 43: 2023/05/11
51: E04F
71: DHINJAN, Budha Singh
72: DHINJAN, Budha Singh
33: GB 31: 1910659.0 32: 2019-07-25
54: WALL PLASTERING BEAD
00: -
A wall bead (100) is provided for application to adjoining surfaces, typically at a corner of a wall, during coating thereof with plaster or other render material. The wall bead comprises a central longitudinally extending portion (102) having first and second longitudinal edges; first and second planar panels (104, 106) extending from the first and second edges respectively; and first and second connection portions (108, 110) extending from the first and second panels respectively. The first and second connection portions each comprise a plurality of teeth (114) protruding therefrom. The first and second panels (104, 106) each comprise a flexible mesh such that they are arranged to conform to a contour of a wall surface. The wall bead is adapted to be flexible to suit the needs of varying shapes, angles and surface profiles of a wall, while having a simple and robust attachment mechanism.

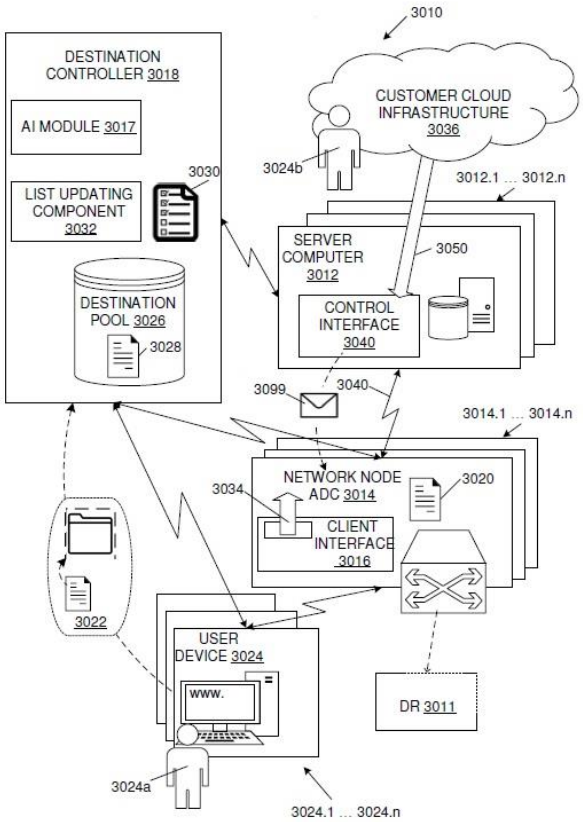


21: 2022/01500. 22: 2022/02/02. 43: 2023/04/12
51: A61K; A61P
71: ZETAGEN THERAPEUTICS, INC.
72: MARGULIES, BRYAN S, THAKUR, NIKHIL A
33: US 31: 62/874,037 32: 2019-07-15
54: OPIOID GROWTH FACTOR RECEPTOR (OGFR) ANTAGONISTS, IN PARTICULAR NALOXONE AND/OR NALTREXONE FOR TREATING CANCER
00: -
This disclosure relates to methods and compositions for treating cancer by administering opioid growth factor receptor (OGFR) antagonists. In particular, the present disclosure relates to methods of administering OGFR antagonists locally to the site of cancer cells in the patient diagnosed with cancer.



21: 2022/01545. 22: 2022/02/03. 43: 2023/06/02
51: G06F; H04L; H04W
71: SNAPT, INC
72: BLAKEY, David Michael, TRENT, Mark Graeme, VAN DER SCHYFF, Willem Nicolaas

33: US 31: 62/878,625 32: 2019-07-25
54: CONTROLLING A DESTINATION OF NETWORK TRAFFIC
00: -
There is provided a system and method for controlling network traffic. The method is conducted at a destination controller accessible by a server computer. Telemetry data is received by the destination controller from a plurality of network nodes managed by the server computer. A data transfer request originating from a user device is received by the destination controller. The destination controller accesses a list of stored network node addresses and applies one or more rules to the list of network node addresses to identify a network node address pointing to a network node for handling network traffic originating from the user device that generated the data transfer request. The network node identified by the destination controller then services the data transfer request, and transmits updated telemetry data of the network node to the destination controller where the list is updated.



21: 2022/01718. 22: 2022/02/09. 43: 2023/05/25
51: B64C
71: TEXTRON SYSTEMS CORPORATION
72: Sean Marshall BAITY, Stephen W. MILLER
33: US 31: 62/887,764 32: 2019-08-16
54: SEPARATED LIFT-THRUST VTOL AIRCRAFT WITH ARTICULATED ROTORS
00: -
A separated lift-thrust (SLT) aircraft includes a longitudinal-thrust engine and articulated electric rotors, at least some of which are variable-position rotors having variable orientations based on rotor position signals. Control circuitry independently controls thrust of the longitudinal -thrust engine and the thrust and orientation of each of the variable-position rotors, relative to the aircraft lifting surface and longitudinal thrust engine, to provide for commanded thrust-vectoring maneuvering of the aircraft during VTOL, fixed wing flight, and intermediate transitional states, including maintenance of a desired pose of the lifting surface independent of orientation of the rotor orientations when hovering the aircraft in windy conditions. A flight and navigation control system automates flight maneuvers and maintains desired aircraft pose and position relative to static or dynamic coordinates during station keeping, tracking, avoidance, or convergence maneuvers.

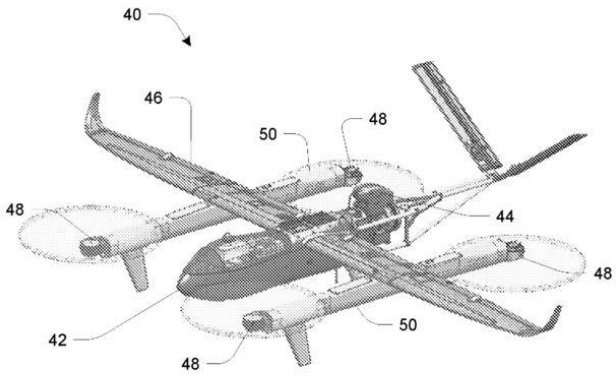


Fig. 3

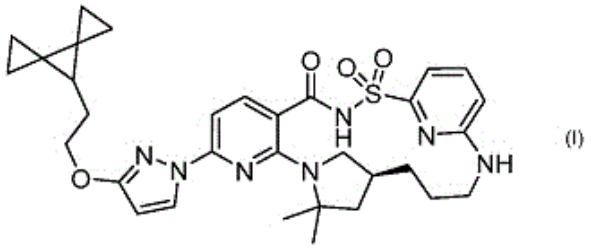
21: 2022/01793. 22: 2022/02/10. 43: 2023/04/20
51: C07D
71: VERTEX PHARMACEUTICALS INCORPORATED
72: ANGELL, PAUL, COCHRAN, JOHN E, LITTLER, BENJAMIN J, SIESEL, DAVID ANDREW, URBINA, ARMANDO, ANDERSON, COREY DON, CLEMENS, JEREMY J, CLEVELAND, THOMAS, COON, TIMOTHY RICHARD, FRIEMAN, BRYAN,

GROOTENHUIS, PETER, HADIDA RUAH, SARA SABINA, MCCARTNEY, JASON, MILLER, MARK THOMAS, PARASELLI, PRASUNA, PIERRE, FABRICE, SWIFT, SARA E, ZHOU, JINGLAN
33: US 31: 62/886,660 32: 2019-08-14

54: PROCESS OF MAKING CFTR MODULATORS

00: -

The disclosure provides processes for synthesizing Compound I, and pharmaceutically acceptable salts thereof.



(I)

Compound

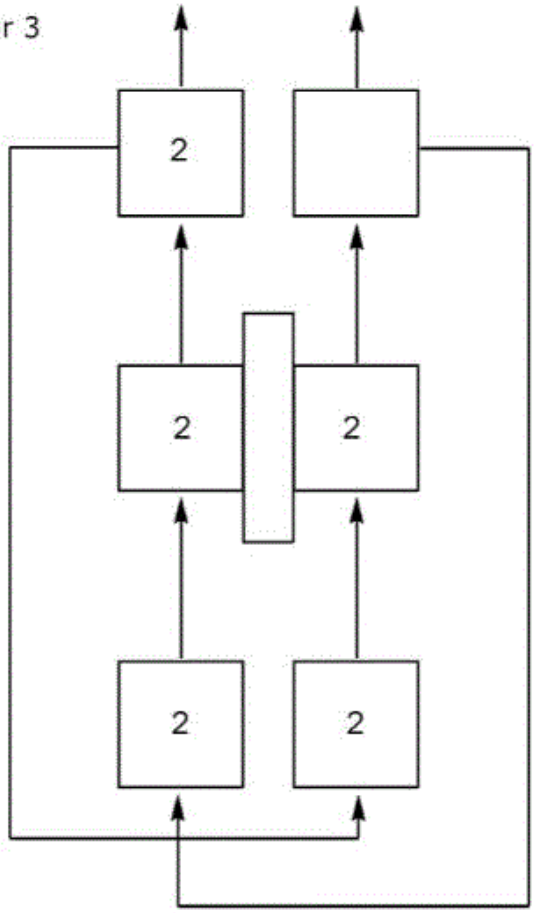
21: 2022/02236. 22: 2022/02/22. 43: 2023/04/18
51: C25B
71: ThyssenKrupp Uhde Chlorine Engineers GmbH
72: KUHLMANN, Jens Wilhelm, HOORMANN, Dirk, KOLBE, Jörg, LÜKE, Lukas, POLCYN, Gregor Damian
33: DE 31: 10 2019 123 858.7 32: 2019-09-05

54: CROSS-FLOW WATER ELECTROLYSIS

00: -

The invention relates to methods for the alkaline electrolysis of water, in which an electrolyte is pumped in the circuit between an anode half cell and a cathode half cell, in order to thereby keep the electrolyte concentration constant throughout the electrolysis process. With this procedure, known disadvantages from the prior art, such as the formation of a Donnan potential and the formation of flow currents, can be substantially eliminated and the energy yield and effectiveness of the method is thereby improved. The invention also relates to electrolysis devices with which said methods can be carried out.

Figur 3

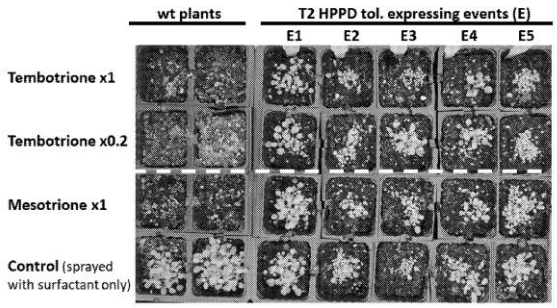


21: 2022/02251. 22: 2022/02/22. 43: 2023/03/23
51: C12N; C12Y
71: PLANTARC BIO LTD.
72: SHALITIN, Dror, GRIMBERG, Noam
33: US 31: 62/896,312 32: 2019-09-05

54: COMPOSITIONS AND METHODS FOR CONTROLLING PLANT GROWTH

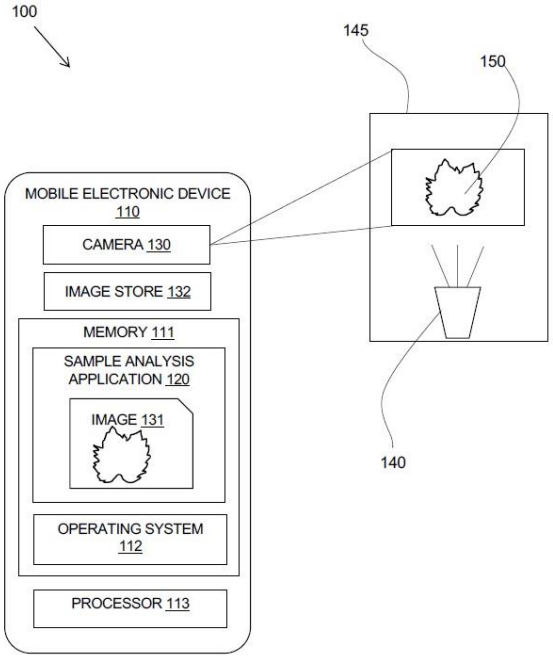
00: -

A plant containing a nucleic acid sequence encoding a protein conferring resistance to a herbicide including one or more HPPD inhibitors, wherein the nucleic acid sequence encodes for a modified and/or exogenous HPPD enzyme.

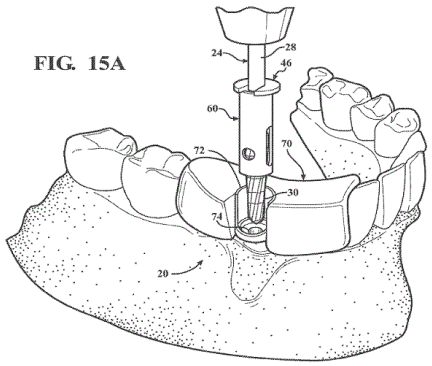


21: 2022/02304. 22: 2022/02/23. 43: 2023/04/24
51: A61K
71: AEON BIOPHARMA, INC.
72: BROOKS, Gregory, F.
33: US 31: 62/894,533 32: 2019-08-30
54: NEUROTOXIN COMPOSITIONS FOR USE IN TREATING NEUROLOGIC AND PSYCHIATRIC DISORDERS
00: -
Disclosed herein are compositions and methods for use in treating neurologic and psychiatric disorders.

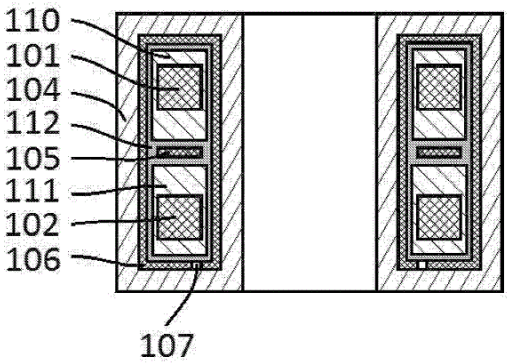
21: 2022/02473. 22: 2022/02/28. 43: 2023/04/11
51: G01N
71: DROPSIGHT (PTY) LTD
72: RAS, Marthinus Christoffel David, WESSELS, Johannes Petrus Bekker, VAN ZYL, Johannes Gideon, VON WIELLIGH, Christiaan Lodewyk, MEYER, Jacobus Esias
33: ZA 31: 2021/01603 32: 2021-03-10
54: IN FIELD IMAGE ANALYSIS OF CHEMICAL OR BIOLOGICAL FORMULATION DEPOSITION ON A NATURAL SURFACE
00: -
A mobile electronic device-implemented method, a system, a computer program product, a kit, and a method for in field image analysis of chemical formulation deposition in a sample are provided. The method includes: obtaining an image of a sample showing a fluorescent tracer of a chemical composition in the sample; processing the image to identify a sample area of the image and a plurality of areas of fluorescent tracer in the sample area; calculating a deposition quantity as a percentage coverage of the sample area with areas of fluorescent tracer; statistically analysing the deposition quantity to obtain a measure of recovery of the fluorescent tracer in the sample indicating a recovery of the chemical formulation in the sample; and outputting a result.



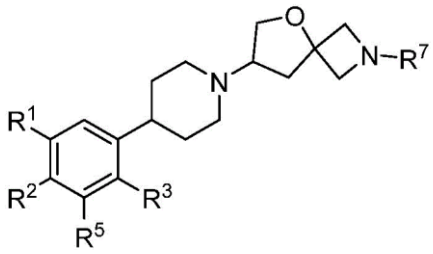
21: 2022/02865. 22: 2022/03/09. 43: 2023/04/20
51: A61C A61B B23B
71: VERSAH, LLC
72: MARSHALL, Todd
33: US 31: 62/886,427 32: 2019-08-14
54: UNIVERSAL KEYLESS GUIDED SURGERY SYSTEM
00: -
A depth stop for a drilling tool to form a hole of predetermined depth. The depth stop includes an interface portion that couples directly to the shank of the osteotome via interlocking spur and groove features. The interface has a cap flange and a tapered skirt. The underside of the cap flange establishes a reference surface for a tubular key that slides onto the tapered skirt and is held there by friction. The skirt is formed with a relief directly under the cap flange to facilitate haptic confirmation of proper connection. Elongated irrigation windows in the key expose a domed transition on the osteotome, thereby facilitating irrigation. The depth stop can be used, optionally, with an alignment jig designed with a precision guide bushing. The guide bushing is semi- cylindrical and terminates with an internal abutment step against which the lower end of the key engages at full depth.



21: 2022/02866. 22: 2022/03/09. 43: 2023/04/11
51: H01F G01N
71: R-WATER LLC
72: REZANEZHAD GATABI, Javad
54: PACKAGING TECHNIQUE FOR INDUCTIVE CONDUCTIVITY SENSORS
00: -
This invention presents a new packaging technique that allows for the use of a wider range of isolating materials for inductive conductivity sensors, thereby significantly reducing the cost of producing the sensors, improving their precision and accuracy, and increasing their sensitivity.



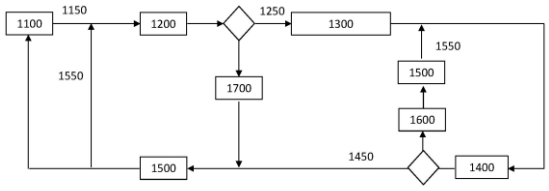
21: 2022/02913. 22: 2022/03/10. 43: 2023/05/11
51: A61K; C07D; A61P
71: NOVARTIS AG
72: YANG, Fan, CHEN, Xin, JENDZA, Keith, SHULTZ, Michael David, HALL, Edward, Charles, CALHOUN, Amy, GARDINIER, Kevin, Matthew, LABBE-GIGUERE, Nancy, NEEF, James, PALACIOS, Daniel, Steven, QIAN, Ming, THOMSON, Christopher G., WANG, Kate, Yaping
33: US 31: 62/912,986 32: 2019-10-09
54: 5-OXA-2-AZASPIRO[3.4]OCTANE DERIVATIVES AS M4 AGONISTS
00: -
Provided herein are compounds according to Formula (I) or a pharmaceutically acceptable salt thereof, wherein R1, R2, R3, R5, and R7 are defined herein. Also provided herein are pharmaceutical compositions comprising a compound of Formula (I) as well as the use of such compounds as M4 receptor agonists.



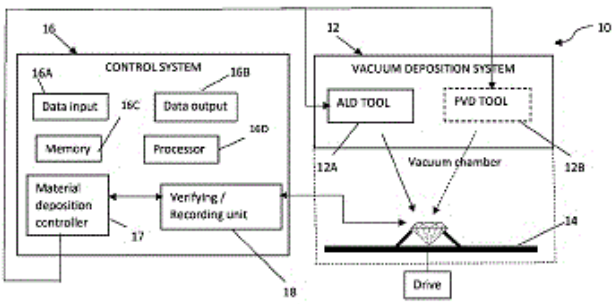
(I)

21: 2022/03249. 22: 2022/03/18. 43: 2023/05/09
51: A24D; A24F
71: PHILIP MORRIS PRODUCTS S.A.
72: FURSA, Oleg, MIRONOV, Oleg, COURBAT, Jerome, Christian, STURA, Enrico, OLIANA, Valerio, BUTIN, Yannick
33: EP 31: 19193286.2 32: 2019-08-23
54: AEROSOL-GENERATING DEVICE WITH MEANS FOR DETECTING AT LEAST ONE OF THE INSERTION OR THE EXTRACTION OF AN AEROSOL-GENERATING ARTICLE INTO OR FROM THE DEVICE
00: -
The present disclosure relates to an aerosol-generating device with means for detecting at least one of the insertion or the extraction of an aerosol-generating article into or from the device. The device comprises a cavity for removably receiving at least a portion of an aerosol-generating article, wherein the article includes an aerosol-forming substrate and an inductively heatable susceptor for heating the substrate. The device further comprises a DC power supply and an inductive heating arrangement configured to generate an alternating magnetic field within the cavity for inductively heating the susceptor of the article when the article is received in the cavity. The device further comprises a control circuitry configured to generate probe power pulses for intermittently powering on the inductive heating arrangement and to detect a change of at least one property of the inductive heating arrangement due to the susceptor becoming present within or absent

from the cavity when an aerosol-generating article is inserted into or extracted from the cavity, and in response to detect at least one of the insertion of an article into the cavity or the extraction of an article from the cavity.

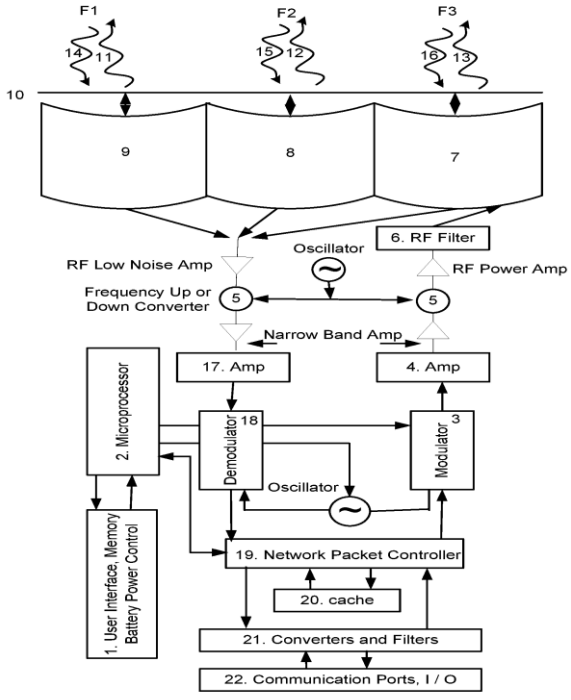


21: 2022/03330. 22: 2022/03/22. 43: 2023/04/24
51: G01N; B23K; G01B; G06F; G06K
71: SOREQ NUCLEAR RESEARCH CENTER, SECURITY MATTERS LTD., YAHLOMA TECHNOLOGIES INC.
72: GROF, YAIR, KISLEV, TZEMAH, YORAN, NADAV, ALON, HAGGAI, KAPLINSKY, MOR
33: US 31: 62/381,243 32: 2016-08-30
54: METHOD FOR MARKING AND AUTHENTICATING DIAMONDS AND PRECIOUS STONES
00: -
Method and systems are presented for authentication of precious stones, according to their natural ID and/or predetermined markings created in the stones, based on unique characteristic radiation response of the stone to predetermined primary radiation.



21: 2022/03676. 22: 2022/03/30. 43: 2023/03/24
51: H04B; H04W
71: GALACTIC TELECOM GROUP, LLC
72: KAKAIRE, James, Kirunda
33: US 31: 62/913,360 32: 2019-10-10
54: MOBILE WIRELESS BROADBAND NETWORK INTERFACE CARD (MWBNIC) AND K-NET
00: -
A Mobile Wireless Broadband Network Interface Card (MWBNIC) for networking electronic devices on a wireless broadband spectrum. The MWBNIC is built into electronic devices as a connecting modem or plugged in via external device ports such as USB. A microprocessor chip attached to a circuit board with a network packet controller coupled to a dedicated cache memory utilized to temporarily store the last N data packets from a node for networking WIFI maintains packet continuity. The network comes with protocols that control packet processing. The MWBNIC embedded packet control protocol (PCP) pushes, pops, compares and deletes packets from cache when a device is in motion. The PCP is connected to a mechanism for determining bandwidth on nodes, another mechanism for switching frequency to that of the next K-Node to connect to and a pre-determined connectivity data set that directly connects the modem in motion are means for networking broadband spectrum.

Broadband Filter Divided Frequency Ranges



21: 2022/03716. 22: 2022/03/31. 43: 2023/04/14
51: F24F; B01D
71: MUNTERS EUROPE AKTIEBOLAG
72: CARLSSON, MAGNUS
33: SE 31: 1951038-7 32: 2019-09-13

54: DEHUMIDIFICATION SYSTEM
00: -
A dehumidification system (1) comprising a sorption dehumidifier unit (2); a process air circuit (3) arranged to conduct a process air flow through desiccant material in the dehumidifier unit (2); a regeneration air circuit (4) arranged to conduct a regeneration air flow through desiccant material in the dehumidifier unit (2); and a heat pump (5) comprising an evaporator (6) and a condenser (7), where the system further comprises an intermediate fluid circuit (8) with a cooling fluid (C), arranged to cool the process air in a heat exchanger (9) before inlet of the process air into the dehumidifier unit (2), said intermediate fluid circuit (8) comprising a fluid pump (11) and a main conduit (8a) arranged to conduct cooling fluid (C) through the process air cooling heat exchanger (9) and through the evaporator (6) of the heat pump, and the intermediate fluid circuit (8) further comprising a flow control system (10) arranged to control the flow of cooling fluid (C) in the intermediate fluid circuit (8) to obtain a cooling fluid temperature dependent parameter value (T1) in the intermediate fluid circuit (8) upstream of the process air cooling heat exchanger (9), which corresponds to a given set-point cooling fluid temperature dependent parameter value (T1set).

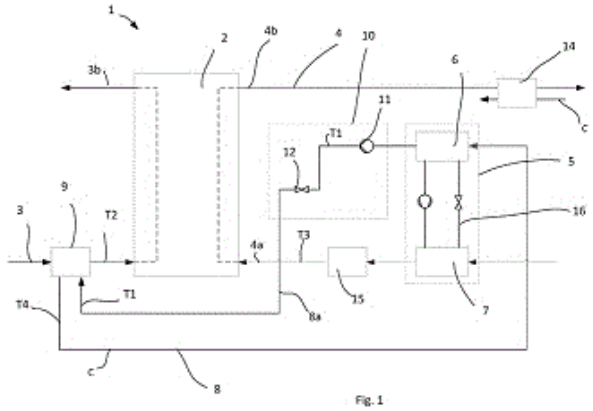
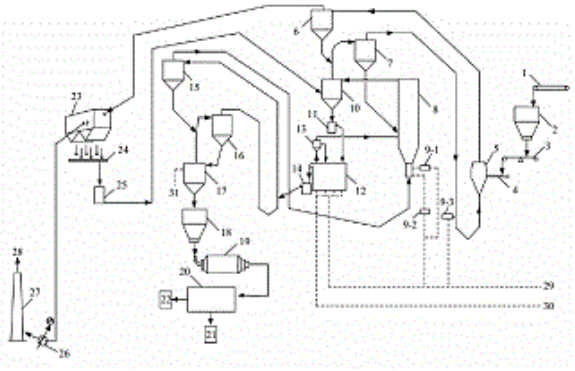


Fig. 1

21: 2022/03721. 22: 2022/03/31. 43: 2023/04/25
51: C22B
71: NORTHEASTERN UNIVERSITY
72: HAN, YUEXIN, YUAN, SHUAI, LI, YANJUN, GAO, PENG, SUN, YONGSHENG
33: CN 31: 202010473975.1 32: 2020-05-29

54: SUSPENSION ROASTING SYSTEM AND METHOD FOR INDUSTRIAL PROCESSING OF IRON AND MANGANESE ORES
00: -
A suspension roasting system includes a feeding bin, a Venturi dryer, a first cyclone preheater, a second cyclone preheater, a pre-oxidation suspension roasting furnace, a thermal separation cyclone cylinder, a suspension and reduction roasting furnace, a collecting bin, a grinding machine, a magnetic ore separator and a draught fan. A suspension roasting method includes: crushing iron and manganese ores; conveying the ores to the Venturi dryer; starting the draught fan and enabling combustion gas in the Venturi dryer to be mixed with dust ores to remove water; enabling obtained solid materials to enter the pre-oxidation suspension roasting furnace after being preheated by the first and second cyclone preheaters; enabling obtained gas to enter the suspension and reduction roasting furnace through the thermal separation cyclone cylinder; performing suspension and reduction roasting; enabling obtained reducing slag powder to enter the collecting bin through cooling cyclone cylinders; and performing grinding and magnetic separation.



21: 2022/03878. 22: 2022/04/05. 43: 2023/05/11
51: A61M
71: ANESTEASY AB
72: JONSSON, Ove
33: SE 31: 1951198-9 32: 2019-10-23
54: INTRAVASCULAR CATHETER DEVICE
00: -
The disclosure relates to a catheter device (1) comprising a catheter (2) and a hypodermic introducer needle (3), wherein an extended portion (19) of the hypodermic introducer needle (3) is

provided with ribs (23, 23a) that circumvent said extended portion, and a proximal end (5) of the catheter (2) is provided with a locking flange (25) adapted to engage with the ribs (23, 23a), such that each rib engaging with the locking flange (25) will provide a tactile indication to the user of the advancement of the catheter (2) in relation to the needle (3).

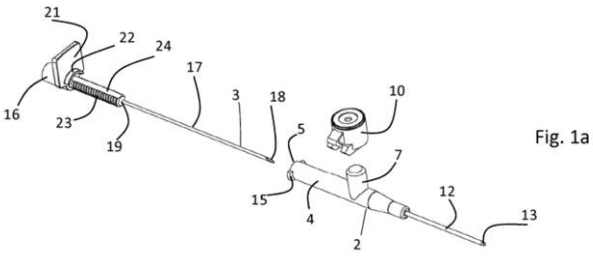


Fig. 1a

21: 2022/03919. 22: 2022/04/06. 43: 2023/05/25
51: A22B; A22C; B62D
71: KANDO INNOVATION LIMITED
72: Keith BLENKINSOPP, Winston WICKHAM
33: NZ 31: 758927 32: 2019-11-06
33: NZ 31: 769641 32: 2020-11-04
54: PRODUCTIVITY ENHANCEMENT APPARATUS FOR POWER OPERATED SKINNING EQUIPMENT
00: -
A shaping or cutting machine, especially a skinner, at which an operator hand-feeds material to be cut or shaped toward a blade. Hand proximity detection devices are provided for operator safety; machine-vision across a surveilled volume before the blade, and conduction sensing devices. The blade is mounted on a rapidly retractable frame. Power from release of a spring physically moves the blade to a safe position if a hand is sensed. A gripping roller is driven by a rapidly stoppable motor.

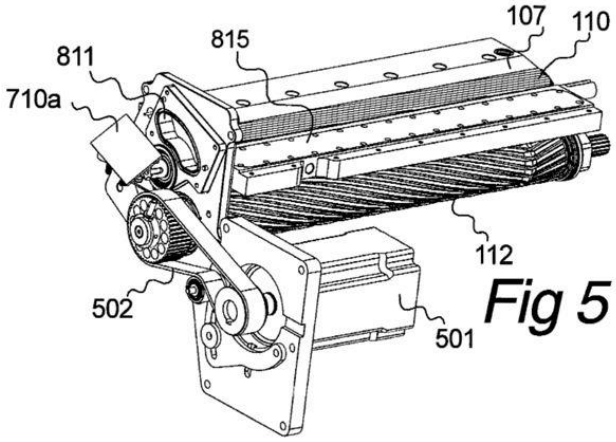
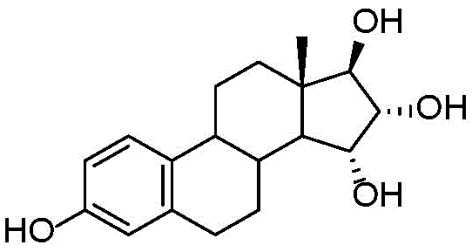


Fig 5

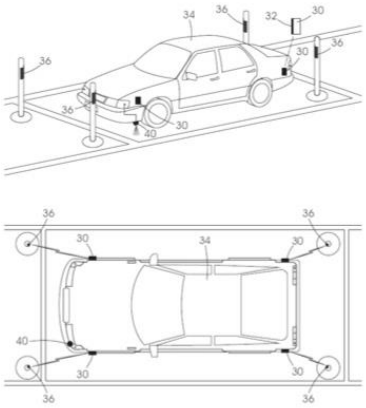
21: 2022/04137. 22: 2022/04/12. 43: 2023/05/15
51: C07J
71: INDUSTRIALE CHIMICA S.R.L.
72: LENNA, Roberto, FASANA, Andrea, LUCENTINI, Riccardo
33: IT 31: 102019000017414 32: 2019-09-27
33: IT 31: 102019000021879 32: 2019-11-22
54PROCESS FOR PREPARING (15ALPHA,16ALPHA,17BETA)-ESTRA-1,3,5(10)-TRIENE-3,15,16,17-TETROL (ESTETROL) AND INTERMEDIATES OF SAID PROCESS
00: -
The present invention relates to a process for preparing (15a,16a,17ß)-Estra-1,3,5(10)-triene-3,15,16,17-tetrol, also known as Estetrol, having the formula shown below: (I)



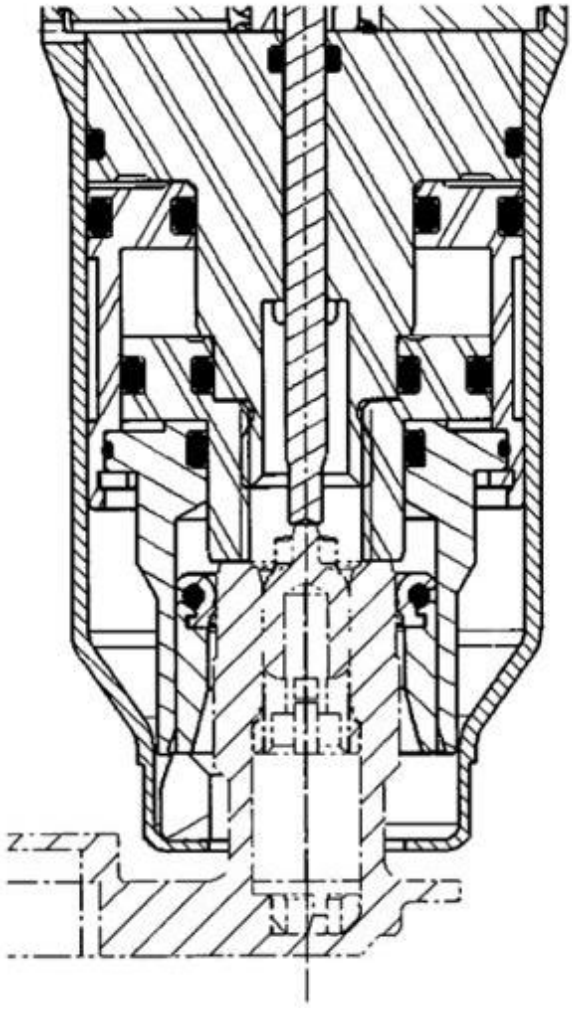
(I)

21: 2022/04174. 22: 2022/04/13. 43: 2023/03/23
51: G09B
71: SELBY MOLAKENG
72: SELBY MOLAKENG
54: AN ELECTRONIC SYSTEM FOR ADMINSTRATION OF DRIVER LICENSE TEST
00: -
The present invention relates to an electronic system for the administration of a driver license tests. More

particularly, it relates to a system which includes safeguards to prevent a person taking a test alternatively an official administering the test from cheating and abusing the system.

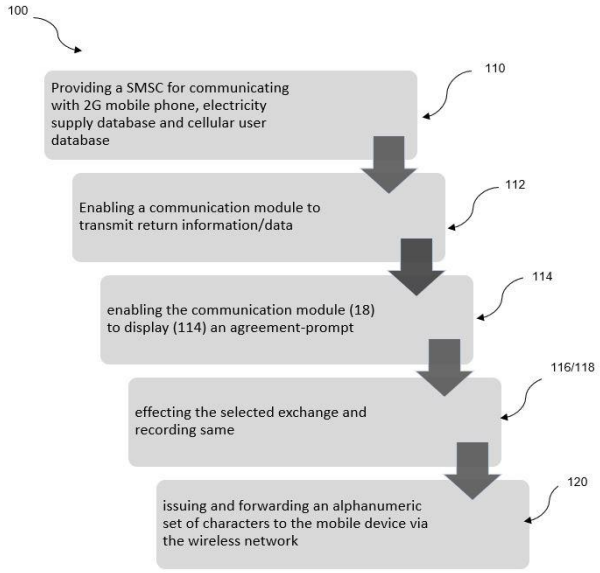


21: 2022/04376. 22: 2022/04/19. 43: 2023/05/25
51: B60H; B67D; F25B
71: DÜRR SOMAC GMBH
72: Karlheinz SCHMIDT
33: DE 31: 10 2019 007 352.5 32: 2019-10-21
54: FILLING ADAPTER FOR FILLING VEHICLES AT ASSEMBLY LINES IN THE AUTOMOTIVE INDUSTRY
00: -
The invention relates to a filling adapter for filling vehicles at assembly lines in the automotive industry, at which vehicles are filled with various service fluids that are supplied from filling systems via connection lines and filling adapters to circuits and containers of the vehicle. The problem addressed by the invention is that of creating a mechanical clamping element for a filling adapter of this kind that has a lower mechanical load for the filling port than the clamping claws or balls commonly used to date. This problem is solved in that the clamping element (2) has a semi-circular contour with a cross section that, starting from a lower and flat base surface (21), transitions upwards into two side surfaces (22; 23) which are arranged at a right angle to the base surface (21) and extend parallel to one another, wherein the two side surfaces (22; 23) each transition, at their end section arranged opposite the base surface (21), into an actuation surface (24; 25) that extends at an angle upwards and inwards.

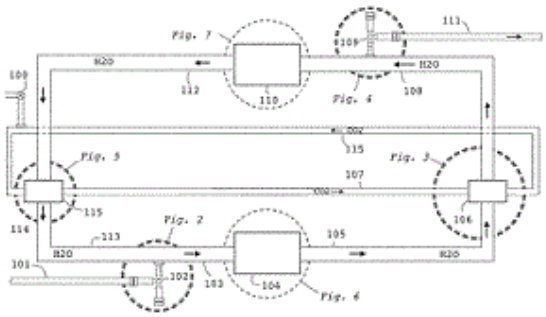


21: 2022/05178. 22: 2022/05/11. 43: 2022/11/11
51: H04B; H04Q
71: RUTIWIZ (PTY) LTD.
72: JANUARY, Andile, HEMPE, Sizwe Zilwele, FILA, Andile
33: ZA 31: 2021/03161 32: 2021-05-11
54: ELECTRICITY ACQUISITION SYSTEM AND METHOD OF USING SAME
00: -
An electricity acquisition system is disclosed, configured to send and receive messages over a wireless data network, without use of cellular data or Wi-Fi data, between an electricity user database, cellular network subscriber database and a mobile device of a cellular network subscriber to enable said subscriber to exchange a selected currency amount of available airtime to an equivalent electricity recharge currency amount via at least one

communication module. A method of utilizing said system is also disclosed.



21: 2022/05489. 22: 2022/05/18. 43: 2023/04/24
51: F24D
71: M.E.D. ENERGY INC.
72: GEINOZ, Francois, Ignace, CUENI, Marcel, YAKOB, Kameran
33: US 31: 16/663,954 32: 2019-10-25
54: METHOD FOR THERMAL ENERGY TRANSMISSION USING WATER AND CARBON DIOXIDE
00: -
The invention provides a system for energy distribution that uses liquid carbon dioxide as a working fluid. Evaporation of the carbon dioxide provides cooling, and compression of the carbon dioxide gas back to the liquid state provides heat. The amount of heat transferred at both stages is sufficient to provide environmental heating and cooling. Waste thermal energy from a power plant, in the form of hot water, is fed into the system and used to drive the overall process. An underground thermal energy storage system is used to store energy flowing into the system that is in excess of the current demand.



21: 2022/06061. 22: 2022/05/31. 43: 2023/04/18
51: G01B; G01N; G02B
71: DAMAE Medical
72: OGIEN, Jonas
33: FR 31: 1913670 32: 2019-12-03
54: DEVICES AND METHODS FOR LINE-SCANNING MICROSCOPY
00: -
The present description relates to a device (200) for line-scanning optical-coherence-tomography microscopy. The device comprises an interferometric microscope (201) comprising a reference arm, an object arm configured to receive an object (10), a beam splitter (204) coupling said object and reference arms to a light source (210) and to a detector (222), and a first microscope objective (202) arranged on said object arm. The device further comprises a one-dimensional confocal spatial filtering device configured to interact with the light source in order to illuminate the object along a focal line located in an object space of the first microscope objective, and a device (235, 237) for scanning the focal line in one direction, which device is arranged on the object arm upstream of the first microscope objective and configured to scan the focal line in a lateral direction (y) substantially perpendicular to an optical axis (z) of said first microscope objective.

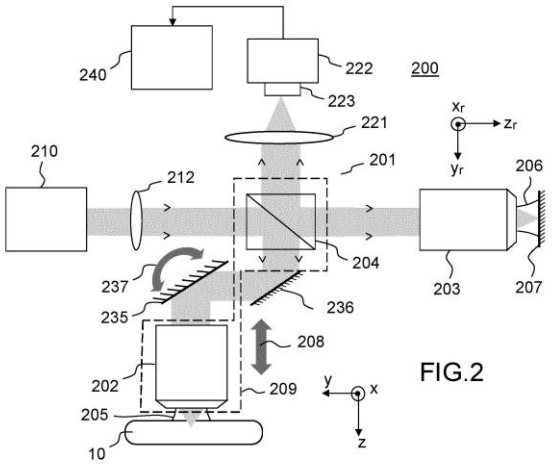


FIG.2

21: 2022/06112. 22: 2022/06/01. 43: 2023/04/18
51: C07D A61K A61P
71: LG CHEM, LTD.
72: PAEK, Seung, Yup, PARK, Deok Seong, HONG, Sang Yong
33: KR 31: 10-2019-0159309 32: 2019-12-03
54: SPHINGOSINE-1-PHOSPHATE RECEPTOR AGONIST, PREPARATION METHOD THEREFOR, AND PHARMACEUTICAL COMPOSITION COMPRISING SAME AS ACTIVE AGENT
00: -
The present invention relates to a novel compound according to chemical formula 1, which acts as a sphingosine-1-phosphate receptor agonist effective for the treatment of autoimmune diseases, a method for preparing same, a pharmaceutical composition comprising same as an active component, and a use thereof. The compound according to the present invention is effective for treatment of a broad range of autoimmune diseases and chronic inflammatory diseases including relapsing-remitting multiple sclerosis, and can also be used for treating or preventing immunoregulatory disorders.

21: 2022/06129. 22: 2022/06/01. 43: 2023/04/18
51: H02J
71: PYLON TECHNOLOGIES, CO., LTD
72: LIU, Ming, SHI, Lu, XIANG, Jinfeng, CAO, Xiaoyin
33: CN 31: 201911366543.4 32: 2019-12-26
33: CN 31: 201922381615.4 32: 2019-12-26
54: BATTERY TURN ON CIRCUIT AND LITHIUM BATTERY
00: -
A battery turn on circuit and a lithium battery, said circuit comprising a communication control module (1), a relay (110), a communication control circuit (120), a switch (130), and a communication connection terminal (2); communication signal terminals of the communication control module (1) are connected to first contacts (B1, B2) of the relay (110); common contacts (D1, D2) of the relay (110) are connected to the communication connection terminal (2); a wire coil (111) of the relay (110) is powered up to control gating of the common contacts (D1, D2) and the first contacts (B1, B2), and powered down to control gating of the common contacts (D1, D2) and second contacts (C1, C2); the communication connection terminal (2) is used for connecting to an upper order machine (3); the switch (130) comprises a first terminal (131), a second terminal (132), and a control terminal (133), a signal of the switch control terminal (133) being able to control connection or disconnection between the first terminal (131) and the second terminal (132); the first terminal (131) of the switch (130) is connected to a power source, and the second terminal (132) of the switch (130) is connected to a power source input terminal (4); after power up of the power source input terminal (4), the wire coil (111) of the relay (110) powers up; signal input terminals (E1, E2) are connected to the second contacts (C1, C2) of the relay (110), and a control signal output terminal (E0) is connected to the control terminal (133) of the switch (130). The present invention achieves the effect of normal turn on and communication after a complete power off.

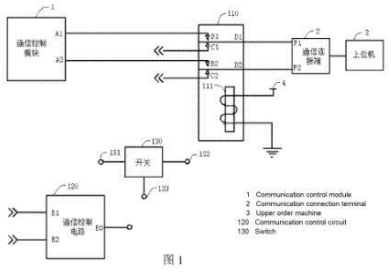
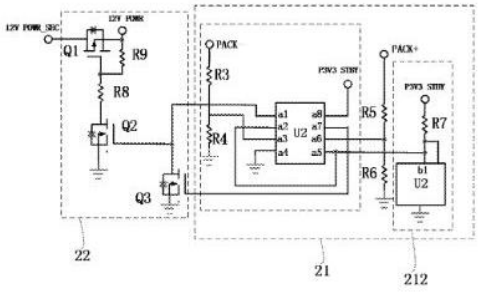


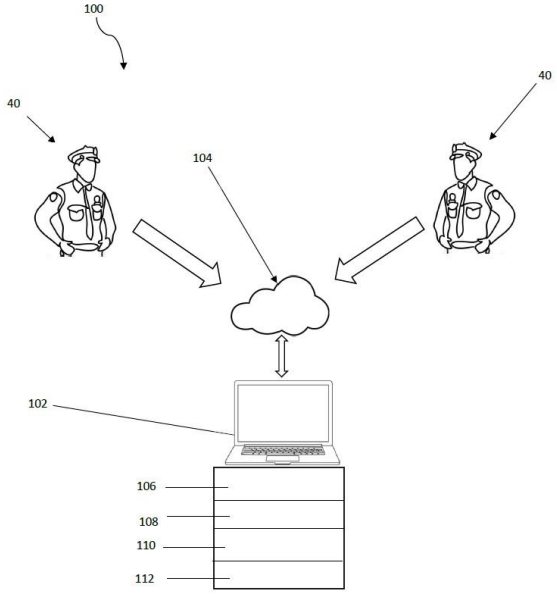
图 1

21: 2022/06130. 22: 2022/06/01. 43: 2023/04/18
51: G05B
71: PYLON TECHNOLOGIES, CO. LTD
72: LIU, Ming, LI, Fanjun, SHI, Lu, YAO, Bin
33: CN 31: 201922414950.X 32: 2019-12-26
54: BATTERY POWER-ON CIRCUIT
00: -

A battery power-on circuit, the battery power-on circuit comprising a power supply circuit and a switch circuit, wherein the power supply circuit comprises a battery power supply unit (11), a first voltage-dividing resistor (R1), a second voltage-dividing resistor (R2) and a fourth switching device (Q4); the switch circuit comprises a dual-channel voltage comparison unit (21) and a power-on control unit (22); a first input terminal (PACK+) of the dual-channel voltage comparison unit (21) is electrically connected to a positive electrode of the battery power supply unit (11), and a second input terminal ((PACK-) thereof is electrically connected to an output terminal of the fourth switching device (Q4); and the dual-channel voltage comparison unit (21) is used to transmit a first control signal to a first control terminal of the power-on control unit (22) when the voltage of the positive electrode of the battery power supply unit (11) is lower than a reference voltage so as to turn off the fourth switching device (Q4), and is also used to transmit a second control signal to a second control terminal of the power-on control unit (22) when the voltage of the output terminal of the fourth switching device (Q4) is higher than the reference voltage so as to turn on the fourth switching device (Q4). The automatic powering on of the battery power supply unit (11) when a load is connected is achieved.

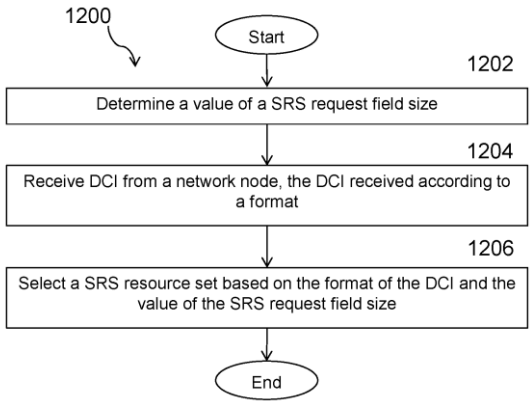


21: 2022/06188. 22: 2022/06/03. 43: 2022/12/05
51: G06Q
71: SI Source, Danzel Mohamed
72: Danzel Mohamed
33: ZA 31: 2022/01685 32: 2022-02-08
54: A TRAFFIC INFRINGEMENT NOTICE MANAGEMENT SYSTEM AND A METHOD OF MANAGING TRAFFIC INFRINGEMENT NOTICES
00: -
According to a first aspect of the invention, there is provided a traffic infringement notice management system, said management system including: a means of issuing one or more digital traffic infringement notices to one or more alleged infringers, using electronic means. In a first embodiment of the invention, the traffic infringement notice management system is provided in the example form of an official traffic infringement notice issuance system, operable to enable one or more authorized persons to officially issue one or more traffic infringement notices to persons who have allegedly committed traffic violations (alleged infringers). In a second embodiment of the invention, said system is provided in the example form of an infringement notification platform, said platform including one or more of the following: a user interface; a means of scanning the barcode of an alleged infringer's driver's license or identity document; a means of scanning the barcode of an alleged infringer's motor vehicle license disk; 5 a means of digitally issuing an infringement notice to an alleged infringer; and a means of formally notifying the infringer and the relevant traffic department of the issuance of the notice, using electronic means.

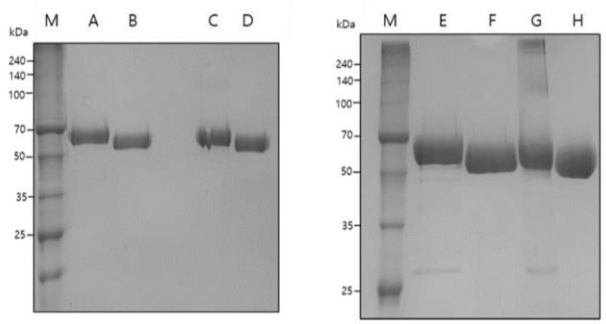


21: 2022/06366. 22: 2022/06/08. 43: 2023/03/29
51: H04L
71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)

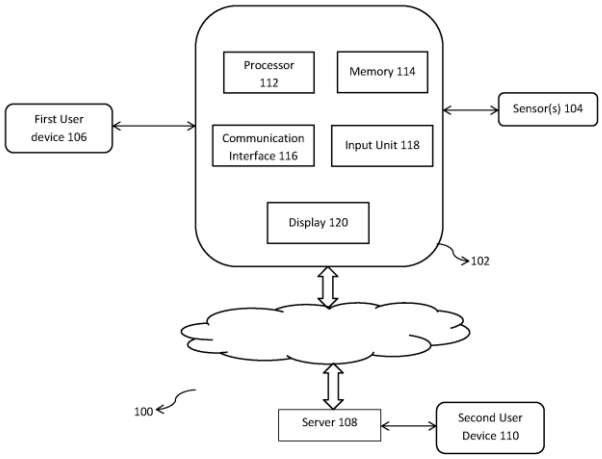
72: KITTICHOKECHAI, Kittipong, ANDERSSON, Mattias, BLANKENSHIP, Yufei
33: US 31: 62/933,265 32: 2019-11-08
54: CONFIGURATION OF DOWNLINK CONTROL INFORMATION FORMATS
00: -
A method by a wireless device includes determining a value of a Sounding Reference Signal (SRS) request field size. The wireless device receives downlink control information (DCI) from a network node. The DCI is received according to a format. The wireless device selects a SRS resource set based on the format of the DCI and the value of the SRS request field size.



21: 2022/06370. 22: 2022/06/08. 43: 2023/04/11
51: C12N A61K A61P
71: ALTEOGEN, INC
72: PARK, Soon Jae, CHUNG, Hye-Shin, LEE, Seung Joo, KIM, Kyuwan, SONG, Hyung-Nam
33: KR 31: 10-2020-0009046 32: 2020-01-23
54: NOVEL HYALURONIC ACID-HYDROLYZING ENZYME VARIANT HAVING IMPROVED STABILITY AND PHARMACEUTICAL COMPOSITION COMPRISING SAME
00: -
The present invention relates to a novel PH20 variant or a fragment thereof, the variant having improved enzyme activity and thermal stability of human hyaluronidase, which is a hyaluronic acid-hydrolyzing enzyme, and relates to a novel PH20 variant, or a fragment thereof, the variant having a substitution of one or more amino acid residues in a variant that has an amino acid sequence of SEQ ID NO: 3, and, optionally, having an additional deletion of N-terminal and/or C-terminal amino acid residues.



21: 2022/06375. 22: 2022/06/08. 43: 2023/04/11
51: A61B; G06Q; G16H
71: ALL INDIA INSTITUTE OF MEDICAL SCIENCES, NEW DELHI, BIOART AZURE RESEARCH & DEVELOPMENT PRIVATE LIMITED
72: MITRA, Dipendra Kumar, MALLICK, Kallol, GULERIA, Randeep, DEY, Aparajit Ballav, NARANG, Rajiv, MOHAN, Anant, DEEPAK, Rakesh Kumar
33: IN 31: 201911050866 32: 2019-12-09
54: DEVICE, SYSTEM AND METHOD FOR REAL TIME MONITORING AND ANALYSIS OF HEALTH PARAMETERS RELATING TO NON-COMMUNICABLE DISEASES
00: -
Present invention provide a system and a method for recording, evaluating, screening and monitoring life style associated Non-communicable diseases related data of a subject via an Integrated Medical Device (IMD) in real time, and sharing the same on a server, either local or cloud based, for fast, active sharing of data by remote users anytime anywhere.



21: 2022/06473. 22: 2022/06/10. 43: 2023/04/24
51: E02F; E21C
71: ESCO Group LLC

72: TORRES DELGADO, Roberto de Jesus, CLAPHAM, William Stephen
33: US 31: 61/836,271 32: 2013-06-18
54: MINERAL WINNING PICK, PICK HOLDER, AND COMBINATION
00: -
An improved pick and pick holder assembly for use in mineral winning and the like. The improved pick and pick holder increases the effective life of a tool and pick holder by minimizing the shifting of the pick within the pick holder. The movement of the pick is minimized by front and rear bearing surfaces that remain positively engaged with front and rear bearing surfaces of the pick holder for loads applied to the pick that are predominantly inward and predominantly rearward.

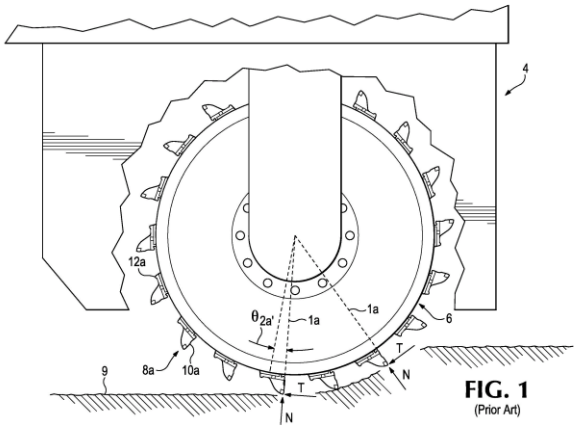


FIG. 1
(Prior Art)

21: 2022/06499. 22: 2022/06/10. 43: 2023/04/12
51: C12C; C12F; C12G; C12H
71: Heineken Supply Chain B.V.
72: HUIBREGTSE, Suzanna
33: EP(NL) 31: 19215674.3 32: 2019-12-12
54: CARBONATED ALCOHOLIC BEVERAGE
00: -
The present invention relates to a carbonated beverage containing: - 900-988 mg/g water; - 3-60 mg/g ethanol; - 0.2-8 mg/g dissolved carbon dioxide; - 0-4 mg/g protein; - ethyl acetate in a concentration of 1-20 mg per gram of ethanol; - isoamyl acetate in a concentration of 0.1-5 mg per gram of ethanol; - C3-C5 alcohols in a concentration of 1.5-50 mg per gram of ethanol; wherein ethyl acetate and isoamyl acetate are present in a weight ratio that is within the range of 2:1 to 30:1. The carbonated beverage of the present invention combines a punchy taste with a pleasant fruity flavor. The invention also provides a process of producing the aforementioned carbonated beverage, said process comprising: - providing a yeast fermented liquid comprising at least 1.5% (v/v) ethanol and volatile flavour components; - subjecting the yeast fermented liquid to a decarbonation step in which a gaseous component comprising carbon dioxide, ethanol and volatile flavour components is removed; - contacting the gaseous component with an aqueous liquid to transfer at least a part of the ethanol and the volatile flavour components from the gaseous component to the aqueous liquid, thereby producing scrubber water; - optionally diluting the scrubber water; and - carbonating the optionally diluted scrubber water.

21: 2022/06537. 22: 2022/06/13. 43: 2023/04/18
51: B65D
71: Huhtamaki Molded Fiber Technology B.V.
72: VEENJE, Sandor Klaas, VAN DER MEIJ, Jelmer Gerhard Jan
33: NL 31: 2024536 32: 2019-12-20
54: PACKAGING UNIT FROM A MOULDED PULP MATERIAL WITH DISPLAY OPENINGS AND METHOD FOR MANUFACTURING SUCH PACKAGING UNIT
00: -
The present invention relates to a packaging unit (2) from a moulded pulp material, the packaging unit comprising a bottom part (4) with product receiving compartments for holding respective products, and a number of cones that are provided between the compartments, and having at least one bottom display surface, and a cover part (6) that is hingedly connected to the bottom part with a hinge-element (26), and having at least one cover display surface, wherein the packaging unit comprises a lock (28) for locking the bottom and cover parts in a closed position, wherein the bottom front surface and cover display surface comprise a number of display openings (42, 44, 46) that are positioned to display the product in the respective compartment, wherein the display openings in the bottom front surface and cover display surface are aligned, wherein the lock comprises a lock opening (32) and a cam element (30), and wherein the cam element is provided on a flapless front surface of the bottom part.

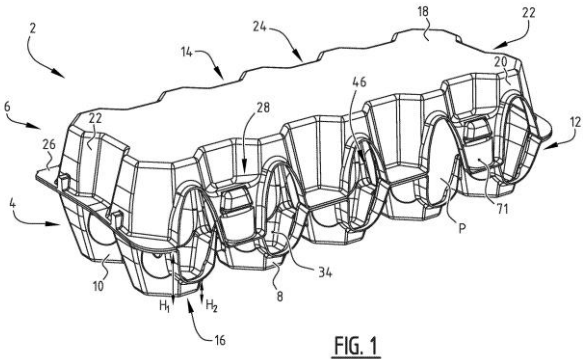
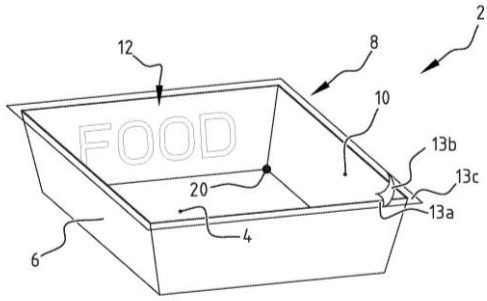


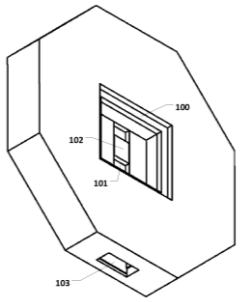
FIG. 1

21: 2022/06539. 22: 2022/06/13. 43: 2023/04/18
51: D21J
71: Huhtamaki Molded Fiber Technology B.V.
72: KUIPER, Harald John
33: NL 31: 2024533 32: 2019-12-20
54: METHOD FOR PRODUCING A MOULDED PULP MATERIAL FOR PACKAGING UNIT AND SUCH PACKAGING UNIT
00: -
The present invention relates to a method for producing a moulded pulp material that is suitable for manufacturing of a packaging unit and such packaging unit. The method of the invention comprises the steps of: - preparing a raw moulded pulp material; - providing the raw moulded pulp material to an extruder; - extruding the raw moulded pulp material; - adding one or more additives; and - providing the moulded pulp material at the outlet of the extruder.

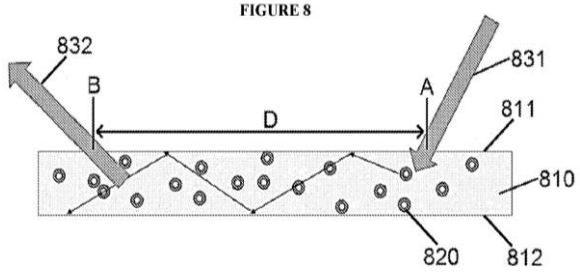


21: 2022/06594. 22: 2022/06/14. 43: 2023/04/18
51: D02G; D03D
71: Southern Mills, Inc.
72: PICKERING, Keith Edward, MORRISON, Christoper Roy
33: US 31: 62/950,193 32: 2019-12-19
54: FLAME RESISTANT FABRICS WITH INCREASED STRENGTH
00: -
Embodiments are directed to flame resistant fabrics formed of a plurality of spun body yarns and rip stops that extend between at least some of the spun body yarns in at least one of the warp or fill direction of the fabric. In some embodiments, the rip stops include at least two relatively tough yarns, and the relatively tough yarns include an aramid spun core and a sheath.

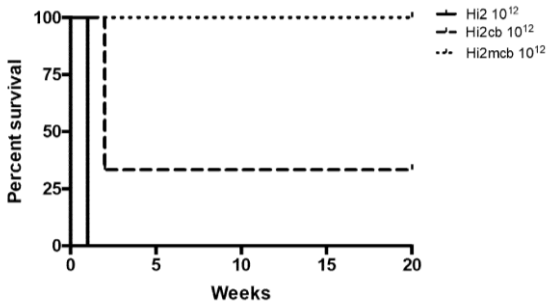
21: 2022/06646. 22: 2022/06/15. 43: 2023/04/18
51: G01N
71: SPIN & TURN - CONSULTADORIA DE SOFTWARE, LDA
72: PEREIRA AREDE, João Paulo, FERREIRA PINA, Rui, Tiago
33: PT 31: 115932 32: 2019-11-25
54: DEVICE AND METHOD FOR DETECTING REACTIVE LUMINESCENT NANO- OR MICRO-PARTICLES
00: -
Device for detecting reactive luminescent particles embedded in a substrate or surface comprising: an infrared or ultraviolet illuminator (101) for illuminating the luminescent particles; a near-infrared photodiode sensor (102) for capturing a near-infrared response of the illuminated luminescent particles; a dark chamber for placing over the substrate or surface, inside which the illuminator (101) and photodiode sensor (102) are mounted; a logarithm amplifier for amplifying and linearizing a response signal captured by the photodiode sensor (102); an electronic data processor configured for detecting the reactive luminescent particles, by carrying out the steps of: illuminating the substrate or surface with the illuminator; acquiring the amplified linearized signal captured by the photodiode sensor; detecting the presence of luminescent particles in the substrate or surface from the linearized decay of the acquired signal. It comprises a further near-infrared photodiode sensor (501), a further logarithm amplifier, and a differentiator for obtaining a difference between amplified signals received by each photodiode sensor (501).



21: 2022/06661. 22: 2022/06/15. 43: 2023/04/18
51: B42D; G01N; G07D
71: Spectra Systems Corporation
72: LAWANDY, Nabil
33: US 31: 16/702,088 32: 2019-12-03
54: CODED POLYMER SUBSTRATES FOR BANKNOTE AUTHENTICATION
00: -
A method and system for authenticating an item includes providing the item including a polymer substrate comprising a polymer material and a doping material, the polymer material and the doping material configured to transmit radiation laterally through the polymer substrate, and the doping material capable of scattering radiation and absorbing radiation of at least one specific wavelength to generate a spectral signature in a spectral band of wavelengths of the transmitted radiation, irradiating the item with incident radiation characterized by a spectral band of wavelengths spanning a band of wavelengths including the at least one specific wavelength absorbed and scattered by the doping material, detecting the spectral signature after the radiation is transmitted laterally through the polymer substrate, and determining a code associated with the spectral signature.



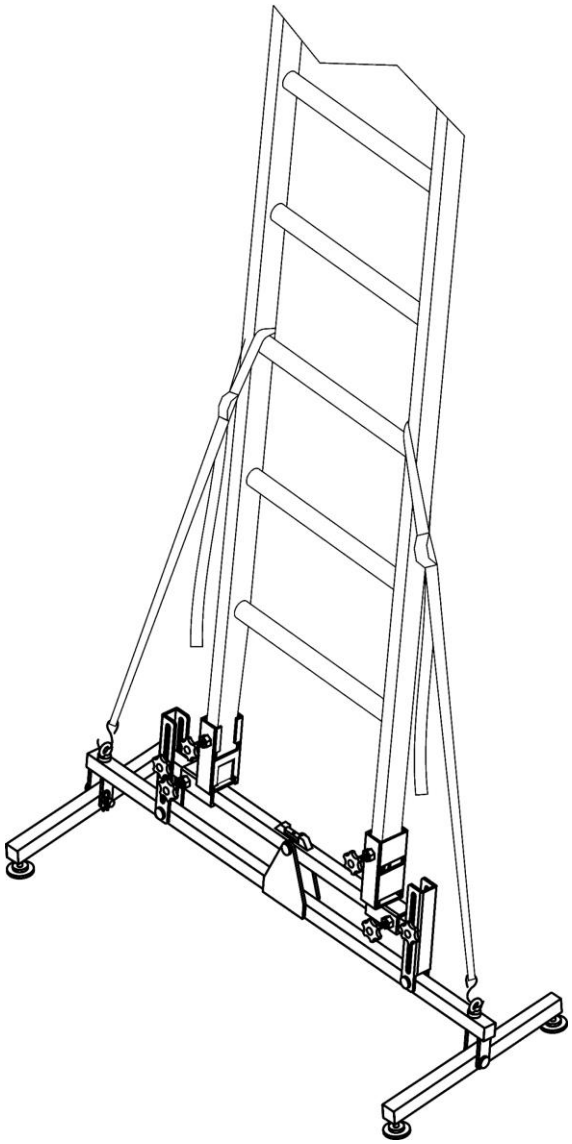
21: 2022/06740. 22: 2022/06/17. 43: 2023/04/11
51: C07K
71: ILTOO PHARMA, SORBONNE UNIVERSITE, INSERM (INSTITUT NATIONAL DE LA SANTÉ ET DE LA RECHERCHE MÉDICALE), ASSISTANCE PUBLIQUE - HÔPITAUX DE PARIS
72: KLATZMANN, David, BILLIALD, Nicolas, VAZQUEZ, Thomas, MARIAU, Jérémie
33: EP 31: 19306637.0 32: 2019-12-12
54: INTERLEUKIN 2 CHIMERIC CONSTRUCTS
00: -
The present invention relates to a chimeric construct, comprising i) an interleukin 2 (IL2) moiety and ii) a beta chain of the C4b-binding protein (C4BPß) or at least one fragment or functional variant thereof that is capable of forming a dimeric protein.



21: 2022/06750. 22: 2022/06/17. 43: 2023/04/18
51: A61K
71: The Wistar Institute of Anatomy and Biology
72: MUTHUMANI, Kar, WEINER, David
33: US 31: 62/950,194 32: 2019-12-19
54: VACCINES AGAINST AFRICAN SWINE FEVER VIRUS, AND METHODS OF USING SAME
00: -
An aspect of the present invention is related to nucleic acid constructs capable of expressing at least one African swine fever virus (ASFV) antigen that elicits an immune response in a mammal against ASFV virus, and methods of use thereof.

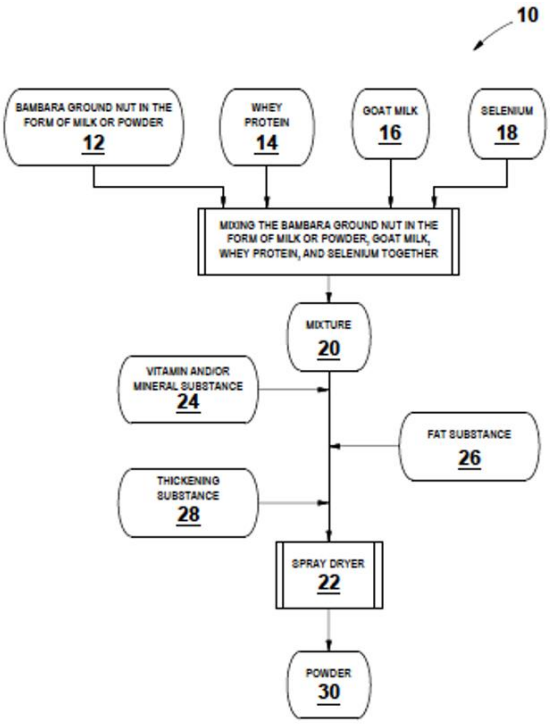
21: 2022/06848. 22: 2022/06/21. 43: 2023/04/18
51: E06C
71: LAING, Gert Christoffel
72: LAING, Gert Christoffel
33: ZA 31: 2021/05126 32: 2021-07-21
54: STABILIZATION DEVICE
00: -
A stabilization device is provided comprising a base and a connector assembly configured to connect a base or feet of a ladder thereto. The connector assembly is pivotally connected to the base about a

fulcrum enabling the connector assembly to be pivoted in a first plane about the fulcrum to a selected angle relative to the base may be secured at the selected angle. The base includes a base cross-member with the connector assembly being carried on the base cross-member. The base cross-member is supported on two or more stand members with the base cross-member being pivotally connected to the stand members to enable the base cross-member and connector assembly to be pivoted in a second plane, perpendicular to the first plane, to a selected angle relative to the stand members.



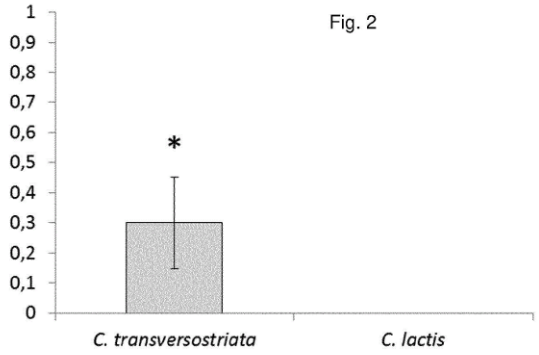
21: 2022/06871. 22: 2022/06/21. 43: 2023/05/11
51: A23C; A23L

71: SERGEY (PTY) LTD
72: SEPTEMBER, Nokuthula Sylvia, PAKADE, Nontembiso Theodora
33: ZA 31: 2021/05040 32: 2021-07-19
54: POWDERED MILK FORMULA FOR AN INFANT
00: -
This invention relates to a powdered milk formula 10 for an infant. The milk formula 10 includes a bambara ground nut powder 12, a goat milk powder 16, a whey protein powder 14 and a powdered water-soluble supplement in the form of selenium 16 which includes the nutrients needed by the infant for healthy development. The bambara ground nut powder, goat milk powder, whey protein powder and/or powdered water-soluble supplement in the form of selenium are formulated to dissolve in water to form a milk formula which is consumed by the infant. The present invention provides a powdered milk formula for an infant, which is dissolvable in water, to form milk which can be consumed and digested by the infant.



21: 2022/07001. 22: 2022/06/23. 43: 2023/04/18
51: A01K; A01N
71: Biobest Group N.V.
72: VANGANSBEKE, Dominiek, DUARTE, Marcus Vinicius Alfenas, BENAVENTE MARTINEZ, Alfredo,

MERCKX, Jonas Andree Jozef, GUILBAUD, Manon Hélène Lionella, OAKLEY, Keith George, BOLCKMANS, Karel Jozef Florent Bolckmans, WÄCKERS, Felix
33: BE 31: BE2019/5864 32: 2019-12-04
54: MITE COMPOSITION AND METHOD FOR REARING MITES
00: -
The present invention relates to methods for the mass rearing of predatory mites, mite compositions and the use thereof for biological control. In particular, the present invention relates to the use of prey mites from the genus Czenspinskia for the mass rearing of predatory mites and for controlling a pest in a crop.



21: 2022/07002. 22: 2022/06/23. 43: 2023/04/18
51: E04D; F24J; F24S; H02S
71: Array Technologies, Inc.
72: SCHUKNECHT, Nathan, ANDERSON, Todd, NAGYVARY, John, SHARP, Jon, CISNEROS, Alex, TUNIKI, Bhanu, CORIO, Ronald, LEE, Kyumin
33: US 31: 62/948,132 32: 2019-12-13
54: MODIFIED CLAMP
00: -
A mounting system may include a frame associated with a power-generating device, the frame including an opening. The mounting system may include a bracket mounting assembly. The bracket mounting assembly may include a top member having a first surface, a clamp, and a single bolt passing through both the top member and the clamp such that the clamp moves along an interface between the first and a second surfaces as the single bolt is tightened. The clamp may include the second surface corresponding to the first surface, an arm projecting away from the top member, and a flange at least proximate a top of the arm. The flange may include an ear at the top of the arm and a tab on a bottom side of the ear projecting back towards the top member, the tab positioned to interface with the opening on the frame.

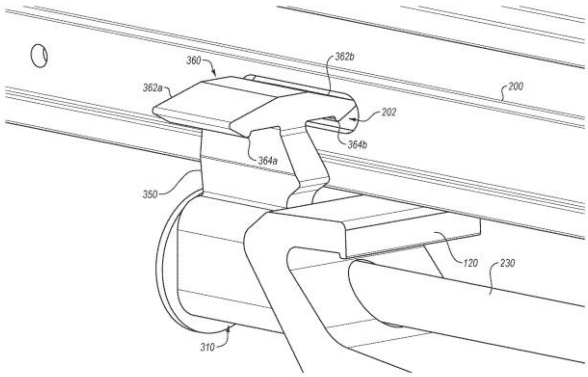
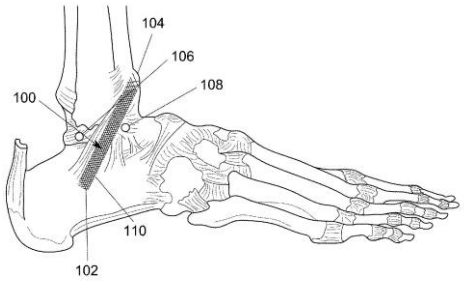


FIG. 11A

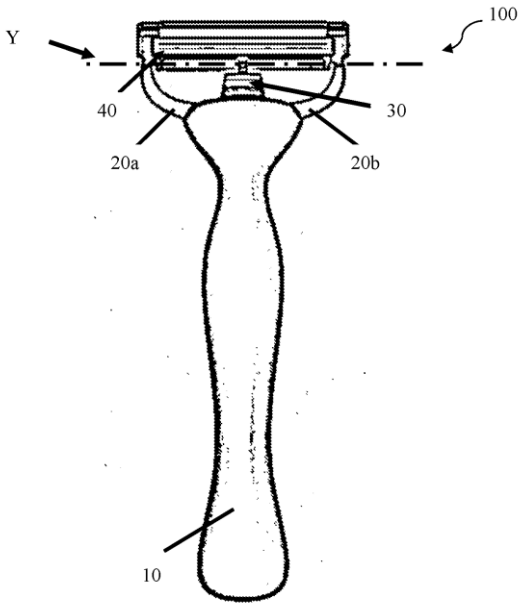
21: 2022/07113. 22: 2022/06/27. 43: 2023/04/18
51: C08L
71: Basell Polyolefine GmbH
72: GALVAN, Monica, PERDOMI, Gianni
33: EP(DE) 31: 19213060.7 32: 2019-12-03
54: POLYETHYLENE COMPOSITION FOR FILAMENTS OR FIBERS
00: -
A polyethylene composition for preparing filaments and fibers, comprising: A) from. 65% to 97% by weight of a copolymer of ethylene having the following features:1) a density of 0,925 g/em3 or higher; 2) a ML· value of 0,5 g/10 min. or greater; B) from 3% to 35% by weight of a polyolefin composition comprising: BI) from 5% to 35% by weight of a propylene homopolymer; BII) from 20% to 50% by weight of an ethylene homopolymer or a copolymer ethylene with up to 5% by weight of alpha-olefin units, containing 4% by weight or less of a fraction soluble in xylene at 25°C; and BIII) from 30% to 60% by weight of a terpolymer of ethylene, propylene and 1 -butene containing from 30% to 85% by weight of a fraction soluble in xylene at 25°C.

A polyethylene composition for preparing filaments and fibers, comprising: A) from. 65% to 97% by weight of a copolymer of ethylene having the following features:1) a density of 0,925 g/em^3 or higher; 2) a ML· value of 0,5 g/10 min. or greater; B) from 3% to 35% by weight of a polyolefin composition comprising: B^I) from 5% to 35% by weight of a propylene homopolymer; B^{II}) from 20% to 50% by weight of an ethylene homopolymer or a copolymer ethylene with up to 5% by weight of alpha-olefin units, containing 4% by weight or less of a fraction soluble in xylene at 25°C; and B^{III}) from 30% to 60% by weight of a terpolymer of ethylene, propylene and 1 -butene containing from 30% to 85% by weight of a fraction soluble in xylene at 25°C.

21: 2022/07230. 22: 2022/06/29. 43: 2023/04/14
51: A61F
71: Paragon 28, Inc.
72: DACOSTA, Albert, ALLARD, Randall, GILL, Sean, DEVASCONCELLOS, Paul, HARTSON, Kyle
33: US 31: 62/944,728 32: 2019-12-06
54: IMPLANT AND RELATED METHODS
00: -
Implants, and surgical methods are disclosed herein. The implant includes a first fiber population that includes at least one non-resorbable fiber and an arrangement of non-resorbable fibers that includes a plurality of gaps between portions of the at least one non-resorbable fiber. Further, the implant includes a second fiber population that includes at least one resorbable fiber and an arrangement of resorbable fibers that includes a positioning of the at least one resorbable fiber that traverses the plurality of gaps.



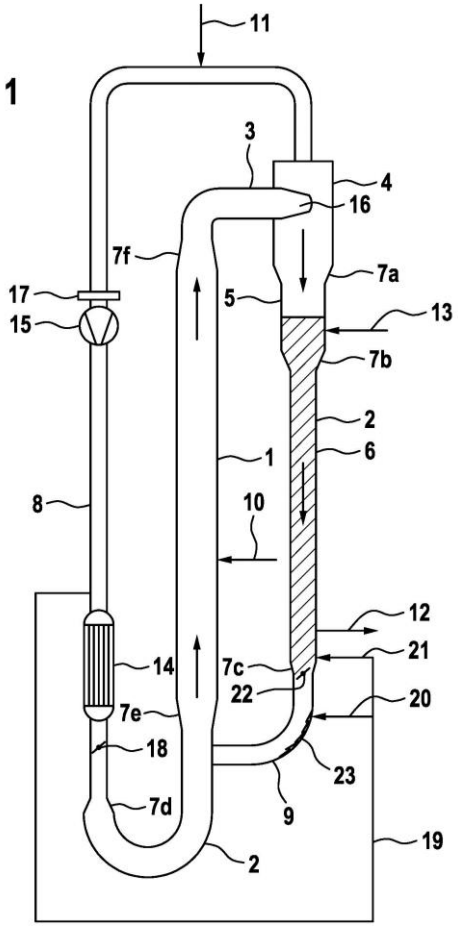
21: 2022/07267. 22: 2022/06/30. 43: 2023/04/14
51: B26B
71: MACK-RAY, INC.
72: LIBERATORE, Raymond, A.
33: US 31: 62/943,438 32: 2019-12-04
54: DUAL SIDED RAZOR
00: -
A dual sided disposable razor and system razor is provided having arms supporting a cartridge. The dual sided disposable razor and system razor comprise a handle extending vertically with a first side and a second side. The second side has a profile symmetric to the first side. The dual sided razor also has a first pivot extending horizontally from a first arm and a second pivot extending horizontally from a second arm, and the cartridge is configured to be rotated about the first pivot and the second pivot to switch between a first side of the cartridge or a second side of the cartridge to bias the cartridge to either the first side or to the second side. This facilitates user to switch between sides without having to detach the cartridge.



21: 2022/07437. 22: 2022/07/05. 43: 2023/04/14
51: B01J
71: Basell Polyolefine GmbH
72: MEI, Giulia, PENZO, Giuseppe, RINALDI, Riccardo, AZZARELLO, Emanuele, PESARE, Rosario
33: EP(DE) 31: 19215247.8 32: 2019-12-11
54: APPARATUS AND PROCESS FOR THE GAS-PHASE POLYMERIZATION
00: -
An apparatus for carrying out a gas-phase olefin polymerization comprising a first polymerization comprising a cylindrical segment of diameter D01, a second polymerization zone comprising an upper part of diameter D05 and a lower part of diameter D06, a separation zone of diameter D04, a first connecting element of diameter D03 which is a bend of radius R03 or comprises a bend part of radius R03, a gas recycle line having a diameter D08,

transition segment of diameter D02, and a second connecting element of a diameter D09 which is a bend or comprises a bend part, wherein the ratio D04 to D05 is 1.0 to 1.5, the ratio D05 to D06 is 1.2 to 2, the ratio R03 to D03 is 1 to 6, the ratio D03 to D01 is 0.3 to 0.85, and the ratio D08a to D02 is 1.0 to 2.2.

Fig. 1



21: 2022/07584. 22: 2022/07/08. 43: 2023/04/11
51: A23L; A61K; B33Y
71: DIHESYS DIGITAL HEALTH SYSTEMS GMBH
72: DACHTLER, Markus, HUBER, Gerald
33: EP 31: 19214624.9 32: 2019-12-09
54: DOT PRINTING METHOD AND DEVICE FOR ADDITIVE MANUFACTURING OF DOSAGE FORMS WHICH CONTAIN ACTIVE SUBSTANCES
00: -
The present invention relates to a method and a device for producing solid, at least semi-solid dosage forms of pharmaceutical active substances, of nutraceutical active substances and/or of food supplement active substances, in the case of which the dosage form is produced in an additive manner by way of the application of a building substance in the form of dots.

21: 2022/07794. 22: 2022/07/13. 43: 2023/04/14
51: H01H
71: BECKER MINING SYSTEMS AG
72: SOBBE, Thomas
33: DE 31: 10 2019 135 227.4 32: 2019-12-19
54: EMERGENCY-STOP SWITCH AND MACHINE WITH AN EMERGENCY-STOP SWITCH
00: -
The invention relates to an emergency-stop switch (1) having: a switch mechanism (10) with a manually operable switch (11) and a first contact element (12) which is operatively connected to the switch (11), wherein the switch (11) is designed to bring the first contact element (12) into contact with a second contact element (14), when the switch (11) is operated, in order to trigger an emergency-stop function, and having a cable pull mechanism (20) with a switching tongue (21) which is guided in a switching tongue guide (22), wherein the switching tongue (21) is designed to be connected to a first end of a cable (30), wherein a switching tongue spring (24) prestresses the switching tongue (21) in a direction averted from the cable (30) during operation, wherein the cable (30) is connected, by way of its second end, to a compensation spring (31) with prestress during operation, wherein the first contact element (12) is operatively connected to the switching tongue (21) in such a way that the switching tongue (21) is guided in the direction toward the cable (30) and against a spring force of the switching tongue spring (24) in the switching tongue guide (22) when the prestressed cable (30) is pulled and, in the process, brings the first contact element (12) into contact with the second contact element (14) in order to trigger the emergency-stop function by means of the cable pull mechanism (20). The invention further relates to a machine with such an emergency-stop switch (1), wherein the second contact element (14) is connected to the machine in such a way that tripping of the emergency-stop function by means of the emergency-stop switch (1) triggers the situation of the machine being brought to a standstill.

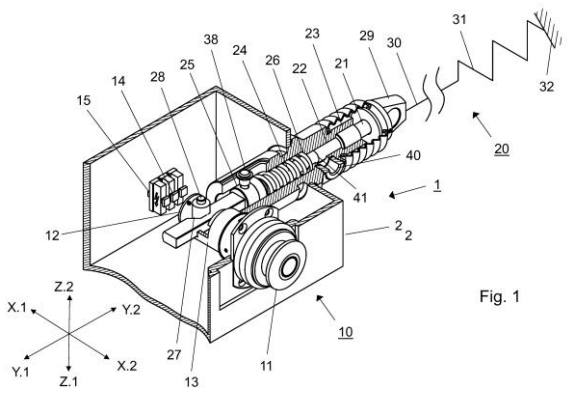


Fig. 1

21: 2022/08434. 22: 2022/07/28. 43: 2023/04/17
51: C02F
71: MAHNA, Satish
72: MAHNA, Satish
33: US 31: 62/746,856 32: 2018-10-17
54: WATER DESALINIZATION SYSTEMS
00: -
A water purifying and desalination system includes solar concentrators that receive a sunlight and direct the sunlight toward many locations. Heat collection elements positioned at the of locations absorb and convert a solar radiation into thermal energy. Some of heat collection elements include perforations to facilitate a state change in a heat-transfer fluid having a high salinity. A condenser condenses a portion of the heat-transfer fluid using a portion of the heat-transfer fluid as its coolant.

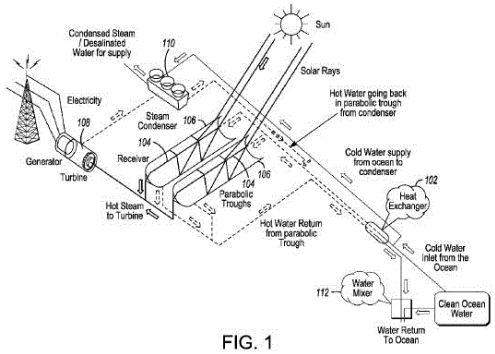
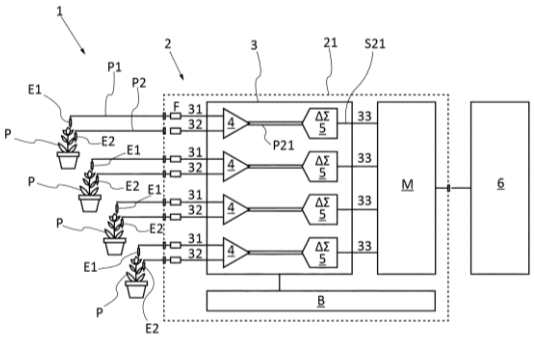


FIG. 1

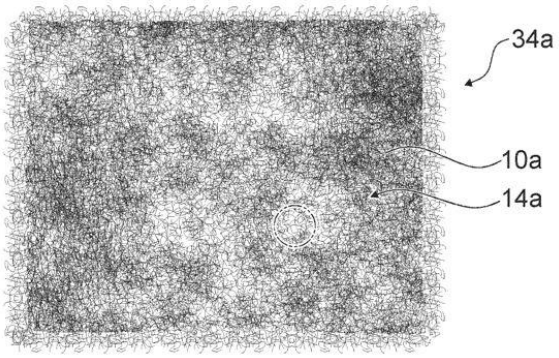
21: 2022/08758. 22: 2022/08/04. 43: 2023/05/22
51: G01N
71: LE BOURDIEC, Fabian
72: LE BOURDIEC, Fabian, COCHETEUX, Patrice
33: FR 31: FR2000094 32: 2020-01-07

54: SYSTEM FOR THE ELECTRO-PHYSIOLOGICAL ANALYSIS OF ONE OR MORE PLANTS
00: -
The invention relates to a system (1, 10, 20, 30) for the electro-physiological analysis of one or more plants (P), comprising a first acquisition device (2) comprising a plurality of first electrodes (E1), each intended to be connected to the same plant or to a different plant in order to capture a first analogue electrical potential (P1), the first acquisition device comprising a housing (21) in which a multi-channel analogue-to-digital converter (3) is arranged, provided with a plurality of first inputs (31), each connected to one of the first electrodes in order to receive one of the first analogue electrical potentials, the multi-channel analogue-to-digital converter being arranged to measure the potential difference (P21) between each received first analogue electrical potential and a reference electrical potential (P2, 7) and to convert each measured potential difference into a digital signal (S21).



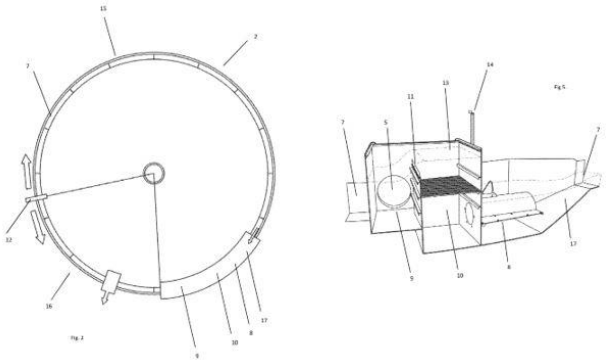
21: 2022/08990. 22: 2022/08/11. 43: 2023/05/25
51: E02B; E02D
71: NAUE GMBH & CO. KG
72: Manuel EICHER, Dr. Martina PRAMBAUER
33: DE 31: 10 2020 103 812.7 32: 2020-02-13
54: PROTECTIVE DEVICE AND SLOPE STABILIZATION
00: -
The invention relates to a protective device (34a-b), in particular an erosion protection device and/or a drainage device, preferably a geotextile, comprising a mat element (10a-b) which is at least designed to be flatly spread out over a surface (12a-b) to be protected and which is at least mostly made of a composite (14a-b), in particular a three-dimensional fleece-like composite, in particular a tangled fleece-

like composite, comprising a plurality of fibers (16a-b). According to the invention, the fibers (16a-b) are designed as biodegradable plastic fibers.

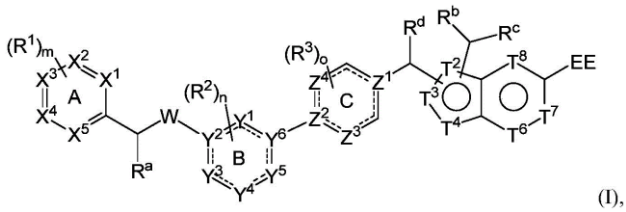


21: 2022/08994. 22: 2022/08/11. 43: 2023/04/12
51: C22B
71: Purdue Research Foundation
72: WANG, Nien-hwa, Linda, HARVEY, David, DING, Yi
33: US 31: 62/982,811 32: 2020-02-28
54: MULTI-DIMENSIONAL LIGAND-ASSISTED CHROMATOGRAPHY METHOD FOR THE PURIFICATION OF COMPLEX REE AND OTHER METAL IONS FORM MIXTURES/MINERALS
00: -
A method for separating substantially pure rare earth metals and other metals from a mixed source, including putting a plurality of rare earth metals and other metals into solution to define a solution containing a plurality of respective metal ions, in at least one chromatographic column, selectively capturing ions of each respective metal with a respective ligand to define a plurality of respective discrete bands, and respectively eluting captured ions of respective metal from each respective band of the at least one chromatographic column to yield a plurality of purified solutions, each respective purified solution having a high concentration of a respective metal. The bands may either be stationary with respect to the columns, or may move through the columns.

21: 2022/09057. 22: 2022/08/12. 43: 2023/05/25
51: B01D
71: ANDRITZ DELKOR PTY LTD
72: Adriaan DUVENHAGE
33: AT 31: 50513/2020 32: 2020-06-15
54: DEVICE AND METHOD FOR SEPARATING A SUSPENSION
00: -
The invention relates to a sedimentation device (1) for separating a solid-liquid suspension, comprising a settling tank (2), a feed well (3), a feed pipe (4), an overflow collector (7) and a mixing area (9). It is characterized in that a pump (8) is disposed in the overflow collector (7) and overflow from the overflow collector (7) can be fed through the pump (8) to the mixing area (9). In this way, the solid-liquid suspension to be clarified can be diluted without affecting the sedimentation process, the chemicals can be used to the optimum, and the amount of overflow fed to the mixing area (9) can be exactly determined.



21: 2022/09312. 22: 2022/08/19. 43: 2023/04/17
51: A61K; A61P; C07D
71: Qilu Regor Therapeutics Inc.
72: ZHONG, Wenge
33: PCT/CN 31: 2018/117047 32: 2018-11-22
54: GLP-1R AGONISTS AND USES THEREOF
00: -
Provided are compounds of Formula (I) and pharmaceutical compositions thereof, for use in, e.g. treating type 2 diabetes mellitus, pre-diabetes, obesity, non-alcoholic fatty liver disease, non-alcoholic steatohepatitis, and cardiovascular disease.


(I),

21: 2022/09337. 22: 2022/08/19. 43: 2023/05/25
51: G08G; H04L
71: ETO MAGNETIC GMBH

72: Benjamin BÖNISCH
33: DE 31: 10 2020 105 840.3 32: 2020-03-04
54: TRAFFIC MANAGEMENT DEVICE, TRAFFIC MANAGEMENT SYSTEM, TRAFFIC INFORMATION SYSTEM, STARTING MODULE THAT CAN BE RETROFITTED AND METHOD FOR MANAGING TRAFFIC
00: -
The invention relates to a traffic management device (52a-h), in particular a stationary traffic management device, preferably for managing at least partially and/or at least periodically self-driving vehicles (80a-h, 96a-h), comprising at least one sensor module (10a-h), which has at least one sensor (12a-h), which is provided for sensing at least one item of information and/or at least one parameter of at least one object (16a-h) moving in a field of vision (14a-h) of the sensor (12a-h). According to the invention, the sensor (12a-h) is designed as an ultra wideband sensor.

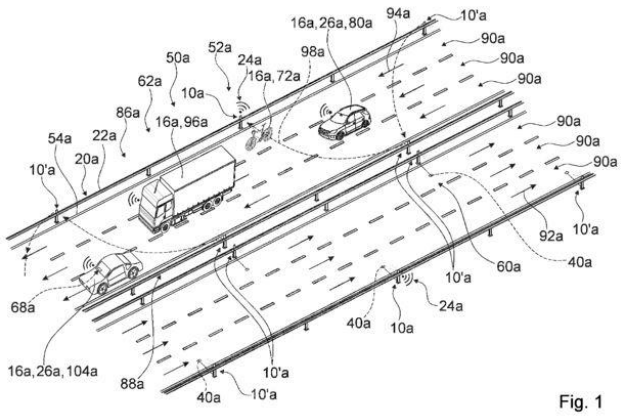
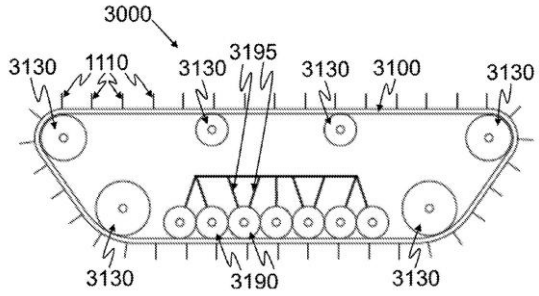
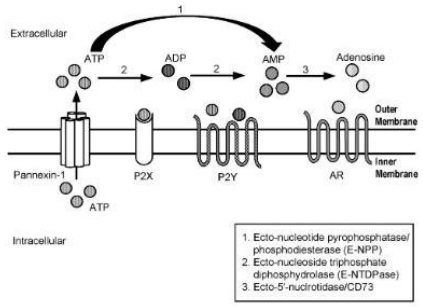


Fig. 1

21: 2022/09347. 22: 2022/08/19. 43: 2023/04/05
51: A01B; A01M; G01R
71: Clean Soil Agro Ltd.
72: BAREL, Nimrod, LEBOVITS, Yoram, YAFFE, Uri, YAFFE, Oded
33: IL 31: 272383 32: 2020-01-30
54: DISINFECTION OF SOIL BY APPLICATION OF ELECTRIC VOLTAGE
00: -
A soil disinfector comprising an insulating endless belt with at least one row of positive electrodes and at least one row of negative electrodes mounted on the endless belt. The electrodes are mounted with their heads on the inside of the belt and their bodies pointing outward from the belt, the electrodes being configured to penetrate the soil. The electrodes take their power from a power source, the power source being connected to the electrodes via sets of rows of rollers and sets of rows of stationary conductive contact plates, at least one set of each being positive and at least one set of each being negative. The soil disinfector also has sensors to detect soil conditions and a processor to alter power applied to the soil based on the soil conditions.



21: 2022/09472. 22: 2022/08/24. 43: 2023/04/24
51: A61K; C07H
71: ARCUS BIOSCIENCES, INC.
72: DEBIEN, LAURENT PIERRE PAUL, JAEN, JUAN CARLOS, KALISIAK, JAROSLAW, LAWSON, KENNETH V., LELETI, MANMOHAN REDDY, LINDSEY, ERICK ALLEN, MILES, DILLON HARDING, NEWCOMB, ERIC, POWERS, JAY PATRICK, ROSEN, BRANDON REID, SHARIF, EHESAN UI
33: US 31: 62/276,564 32: 2016-01-08
33: US 31: 62/324,077 32: 2016-04-18
54: MODULATORS OF 5'-NUCLEOTIDASE, ECTO AND THE USE THEREOF
00: -
Compounds that modulate the conversion of AMP to adenosine by 5'- nucleotidase, ecto, and compositions containing the compounds and methods for synthesizing the compounds, are described herein. The use of such compounds and compositions for the treatment and/or prevention of a diverse array of diseases, disorders and conditions, including cancer- and immune-related disorders, that are mediated by 5'-nucleotidase, ecto is also provided.



21: 2022/09532. 22: 2022/08/25. 43: 2023/04/05
51: B01J; C07C; C10G
71: ExxonMobil Chemical Patents Inc.
72: BAO, Xiaoying, COLEMAN, John S.
33: US 31: 62/986,229 32: 2020-03-06
54: PROCESSES FOR UPGRADING ALKANES AND ALKYL AROMATIC HYDROCARBONS
00: -
Processes for upgrading a hydrocarbon. The process can include contacting a hydrocarbon-containing feed with fluidized catalyst particles that can include a Group 8-10 element or a compound thereof disposed on a support to effect one or more of dehydrogenation, dehydroaromatization, and dehydrocyclization of at least a portion of the hydrocarbon-containing feed to produce a coked catalyst and an effluent. The process can also include contacting at least a portion of the coked catalyst particles with an oxidant to effect combustion of at least a portion of the coke to produce regenerated catalyst particles. The process can also include contacting an additional quantity of the hydrocarbon-containing feed with at least a portion of the regenerated catalyst particles to produce additional effluent and re-coked catalyst particles.

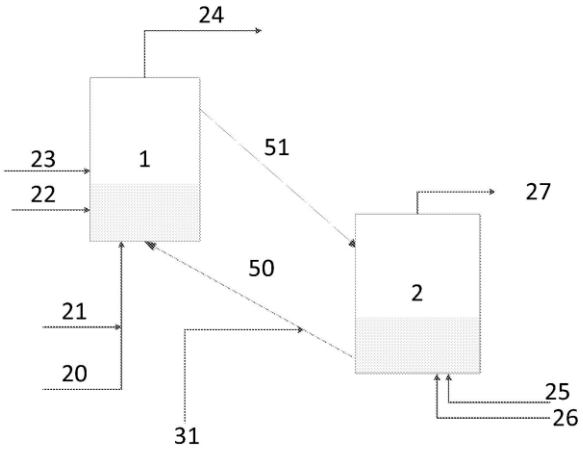
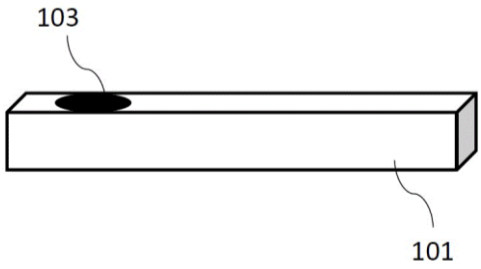


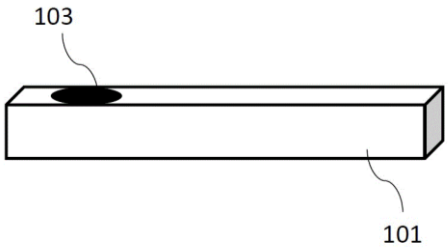
FIG. 1

21: 2022/09658. 22: 2022/08/30. 43: 2023/04/05
51: E04H
71: The Cashmere Caveman Co, Wild Kitchens Limited
72: RITCHIE, Guy Stuart
33: US 31: 17/463,006 32: 2021-08-31
54: A TENT WITH CONFIGURABLE FLUE OPENINGS
00: -
Roof beams or ridges having configurable vent or flue openings therein are disclosed. Such members may be used in tents or other temporary structures to allow for versatility in positioning stoves, heaters, or other apparatuses requiring exterior venting therein.

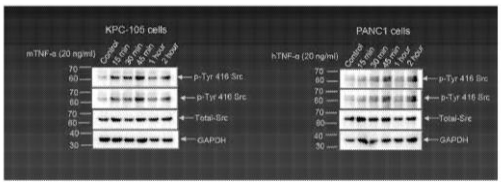


21: 2022/09659. 22: 2022/08/30. 43: 2023/04/05
51: E04H
71: The Cashmere Caveman Co, Wild Kitchens Limited
72: RITCHIE, Guy Stuart, DEMPSTER, Allister Mark, CHARLES-JONES, Rupert Wilson
33: US 31: 17/463,017 32: 2021-08-31
54: TENT FEATURING RETRACTABLE ROOF AND SIDE CANVAS PANELS OR SHEETS
00: -

Retractable roof and/or wall panels are disclosed herein. Such panels may be used as roof or wall portions for tents or other temporary structures allowing for variable outdoor exposure and easy transitions from indoor to outdoor spaces.



21: 2022/09901. 22: 2022/09/05. 43: 2023/04/05
51: A61K; A61P; C07D
71: Sintetica S.A.
72: BORGEAT, Alain, MITIDIERI, Augusto, VENTURI, Miro, DONATI, Elisabetta, VOTTA-VELIS, E. Gina
33: US 31: 62/985,962 32: 2020-03-06
54: DRUG COMBINATIONS FOR INHIBITING INFLAMMATION AND SRC KINASE ACTIVATION FOLLOWING INVASIVE SURGICAL PROCEDURES
00: -
Combinations of compounds that inhibit activation of p-Src tyrosine kinase, having particularly utility in the treatment of inflammation resulting from traumatic surgical interventions and the proliferation or metastasis of cancer cells following surgical excision of cancerous tissue.

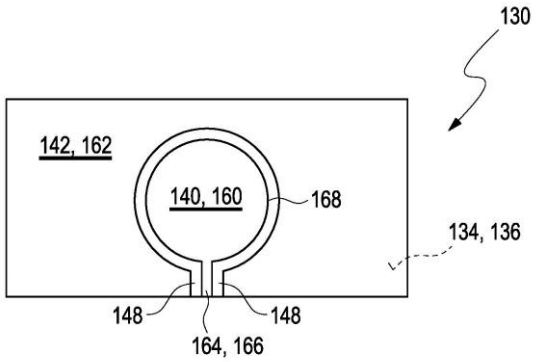


21: 2022/09964. 22: 2022/09/07. 43: 2023/04/04
51: B32B
71: RÖHM GMBH
72: SEYOUM, Ghirmay, ENDERS, Michael, GROOTHUES, Herbert, GUÉNANTEN, Claude, STRUWE, Kim, HÄRING, Helmut, MUSCI, Girolamo
33: EP 31: 20157833.3 32: 2020-02-18
54: ACRYLIC MULTILAYER FOIL WITH IMPROVED MECHANICAL PROPERTIES AND A HIGH WEATHERING RESISTANCE
00: -
The present invention relates to an acrylic multilayer foil comprising a layer A in which silica particles are uniformly distributed in an acrylic polymer matrix and a coating layer D. Due to adhesive promoting properties of the layer A comprising silica particles, the coating layer D can be advantageously applied onto the layer A. The foil has a high weathering resistance and excellent mechanical properties. Therefore, the foil of the present invention is highly suitable for surface-protection of materials such as polyvinyl chloride (PVC) and for use in high-pressure laminates (HPLs).

21: 2022/09966. 22: 2022/09/07. 43: 2023/04/04
51: B32B
71: RÖHM GMBH
72: SEYOUM, Ghirmay, ENDERS, Michael, GROOTHUES, Herbert, GUÉNANTEN, Claude, STRUWE, Kim, HÄRING, Helmut, MUSCI, Girolamo
33: EP 31: 20157832.5 32: 2020-02-18
54: ACRYLIC MULTILAYER FOIL WITH IMPROVED MECHANICAL PROPERTIES AND A HIGH WEATHERING RESISTANCE
00: -
The present invention relates to an acrylic multilayer foil comprising at least one layer in which silica particles are uniformly distributed in an acrylic polymer matrix and at least one further layer. Due to adhesive promoting properties of the layer comprising silica particles, the multilayer foil can be easily coated or laminated onto a substrate. The foil has a high weathering resistance and excellent mechanical properties. Therefore, the multilayer foil of the present invention is highly suitable for surface-protection of materials such as polyvinyl chloride (PVC) and for use in high-pressure laminates (HPLs).

21: 2022/09980. 22: 2022/09/07. 43: 2023/04/04
51: A61B; C12Q; G01N
71: F. Hoffmann-La Roche AG
72: HOCHMUTH, Gernot, STECK, Alexander, SLIOZBERG, Kirill
33: EP(CH) 31: 20181542.0 32: 2020-06-23
54: ANALYTE SENSOR AND A METHOD FOR PRODUCING AN ANALYTE SENSOR
00: -
An analyte sensor (130) for determining an analyte concentration in a body fluid (132) and a method for producing the analyte sensor (130) are disclosed.

The analyte sensor (130) comprises: - a substrate (134) having a first surface (136), the first surface (136) being configured to be faced towards the body fluid (132) comprising the analyte; - a working electrode (140); - an interferent electrode (142); and - at least one further electrode (144) selected from the group consisting of a counter electrode (146), a reference electrode and a counter/ reference electrode; wherein each of the working electrode (140) and the interferent electrode (142) comprises a layer (210) of a conductive material (212), wherein the working electrode (140) further comprises at least one enzyme, whereas the interferent electrode (142) is devoid of enzyme, and wherein the interferent electrode (142) and the working electrode (140) are electrically separated layers located adjacently on the first surface (136) of the substrate (134). The analyte sensor (130) allows a precise determination of the analyte concentration although interferents may be comprised by the body fluid (132).



21: 2022/10020. 22: 2022/09/08. 43: 2023/05/25
51: A61K; C07K; C12P
71: MACROGENICS, INC.
72: Alexey Yevgenyevich BEREZHNOY, Gundo DIEDRICH, Paul A. MOORE, Ezio BONVINI, Kalpana SHAH
33: US 31: 62/980,000 32: 2020-02-21
33: US 31: 63/104,685 32: 2020-10-23
33: US 31: 63/147,565 32: 2021-02-09

54: CD137 BINDING MOLECULES AND USES THEREOF

00: -

The present invention is directed to binding molecules that possess one or more epitope-binding sites specific for an epitope of CD137, including antibodies, and molecules comprising epitope-binding fragments thereof The invention is further directed to multispecific binding molecules comprising one or more epitope-binding sites specific for an epitope of CD137 and one or more epitope-binding sites specific for an epitope of a tumor antigen ("TA") (e.g, a "CD137 x TA Binding Molecule").

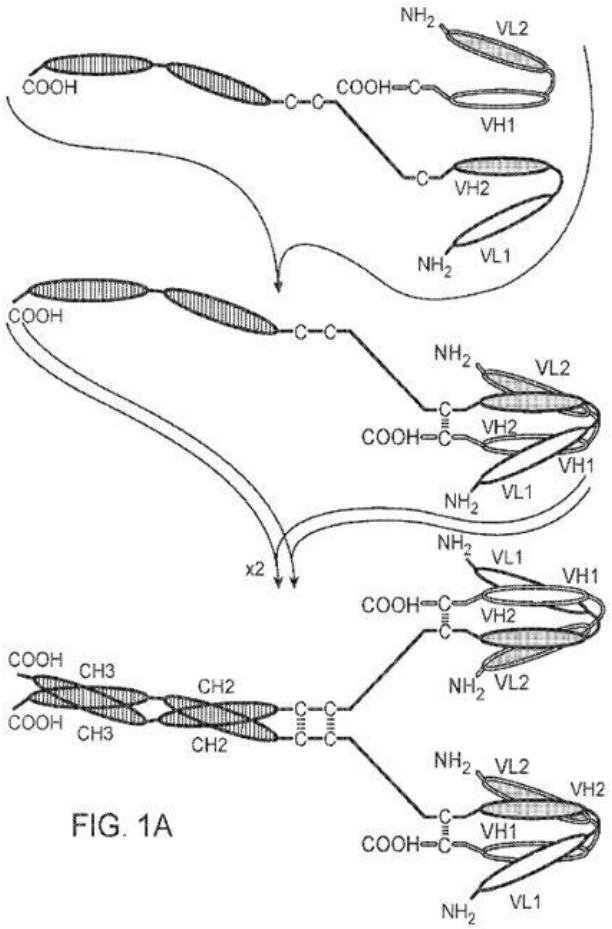


FIG. 1A

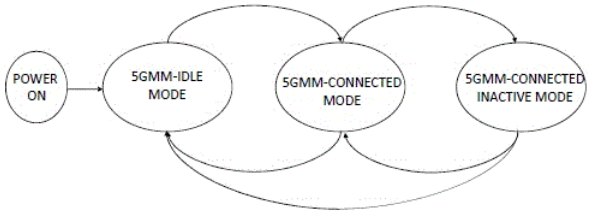
21: 2022/10100. 22: 2018/11/14. 43: 2023/04/17
51: H04W
71: NOKIA TECHNOLOGIES OY
72: WON, Sung Hwan

54: APPARATUS, METHOD AND COMPUTER PROGRAM FOR CONNECTION MANAGEMENT

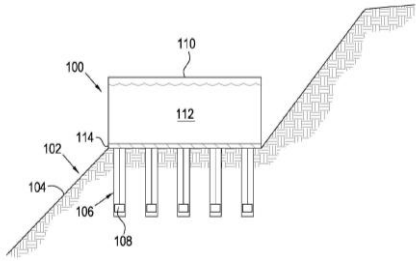
00: -

An apparatus comprising: at least one processor; and at least one memory including computer program code; the at least one memory and the computer program code configured to, with the at least one processor, cause the apparatus at least to: receive (602) a fallback indication from a radio resource control layer; invoke (604) a service

request procedure; and set (606, 608) at least one of a service type information element and an uplink data status information element in a service request message.



21: 2022/10108. 22: 2022/09/12. 43: 2023/04/03
51: E21F
71: MARTINS, Roelof Petrus
72: MARTINS, Roelof Petrus
33: ZA 31: 2021/00489 32: 2021-01-25
54: A BLAST-LIMITING INSTALLATION AND METHOD
00: -
A blast-limiting installation (100) includes at least one frangible or fracturable container (110) placed at blast site nearby a contemplated blast (202) at a position where it will be exposed to a shockwave (204) or other impact from the blast (202), the container (110) configured to be fractured or broken by the blast (202). The installation also includes a liquid (112) provided inside the container (110), the container (110) being configured such that that, when it is fractured, the liquid (112) is released and absorbs at least some particulate matter emanating from the blast (202).



21: 2022/10165. 22: 2022/09/13. 43: 2023/04/20
51: F16C; F16N; G01N
71: SDT International SA-NV
72: TROBRADOVIC, Haris, MACHADO, Charles
33: EP(BE) 31: 20162123.2 32: 2020-03-10
54: A METHOD AND SYSTEM FOR LUBRICATING ONE OR MORE ROTARY BEARINGS
00: -
According to the method of the invention, a lubricant is supplied incrementally to a rotary bearing (1) while the bearing is in operation i.e. rotating at a given rotational speed. The lubricant is supplied in a sequence of consecutive steps so that at each step a subportion of a prescribed amount of lubricant is supplied to the bearing, followed each time by an ultrasound measurement. A first ultrasound measurement is performed before the first supply step, and starting from the second supply step, each measurement result is compared at least to the previous result, in order to evaluate the bearing condition and decide on the basis of this evaluation whether to continue the sequence or stop the sequence. The stopping of the sequence is decided when the lubrication of the bearing is assessed as lubrication success, lubrication failure or overlubrication. The invention is equally related to a system for lubricating one or more bearings, applying the method of the invention to each of said bearings.

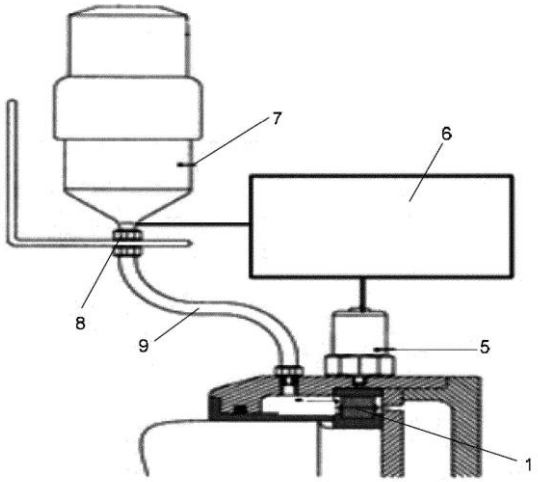
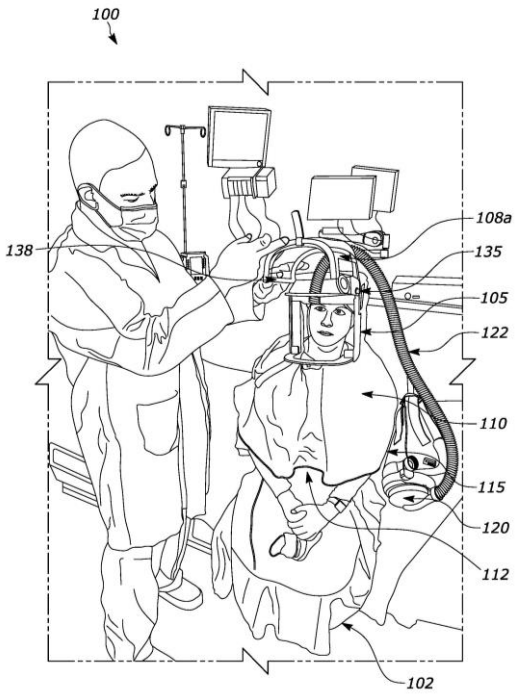


FIG. 1b

21: 2022/10168. 22: 2022/09/13. 43: 2023/04/12
51: A61B; A61M
71: The Regents of the University of Michigan, Flexsys, Inc.
72: KOTA, Shalini Sarala, KOTA, Sridhar, WARD, Kevin R., HORNICK, David
33: US 31: 63/002,120 32: 2020-03-30
54: PERSONAL RESPIRATORY ISOLATION SYSTEM
00: -

A personal respiratory isolation system (PRIS) provides a personal, negative pressure environment for a patient or user that reduces contamination and spread of pathogens exhaled by the patient into the environment. The PRIS includes an enclosure to receive the patient's head (such as a hood and a drape) and a negative pressure source which draws ambient air into the interior of the enclosure and draws air within the enclosure's interior (including the exhalations of the patient, including any contaminants and/or pathogens) out of the enclosure via a fluid port into a container for biohazard processing or disposal. The PRIS may allow positive air pressure therapeutic treatments to be delivered to the patient within the negative pressure environment, and the PRIS may maintain a constant pressure within the interior of the enclosure. The PRIS may include a transparent, hinged face shield for ease of patient observation and/or access.



21: 2022/10173. 22: 2022/09/13. 43: 2023/04/12
51: D04B
71: Lonati S.p.A.
72: LONATI, Ettore, LONATI, Fausto, LONATI, Francesco
33: IT 31: 102020000023137 32: 2020-10-01
54: METHOD FOR CLOSING A KNITTED TUBULAR ARTICLE AT AN AXIAL END THEREOF

00: -
A method for closing a knitted tubular article at an axial end thereof, at the end of its production cycle on a circular hosiery knitting machine, comprising: - production of the article up to the execution of the last course of knitting, retaining the loops of knitting of said last course of knitting in the head of the needles of the machine that formed them; - individual gripping of the loops by a pickup device provided with pickup elements arranged against the region of the stem of each needle located proximate to the latch on the opposite side with respect to the head; - removal of the article, retaining each loop of the last course formed by means of the pickup elements; - positioning the article at a sewing station; - individual transition of the loops from pickup elements to spikes of an annular device composed of two semiannular portions; - inverting the article retained by said handling device; - superimposing each one of the loops of one half course of knitting on a corresponding loop of the other half course of said last course of knitting on a same spike of said handling device by means of the overturning; - sewing the pairs of loops of knitting that are mutually superimposed; - disengagement of the manufacture from said handling device, said step of removal of the manufacture comprising a first extraction preparation step, a second manufacture extraction step, and a third manufacture transfer step. A particular order of commands of the different steps is provided.

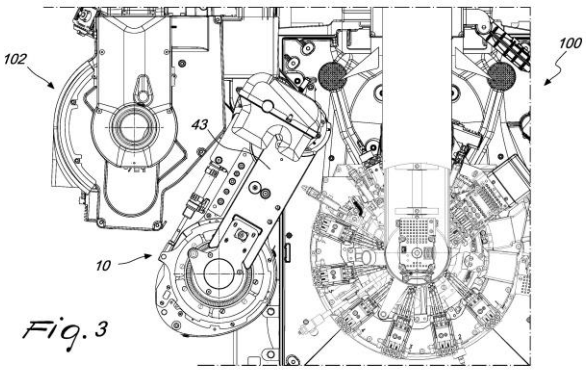
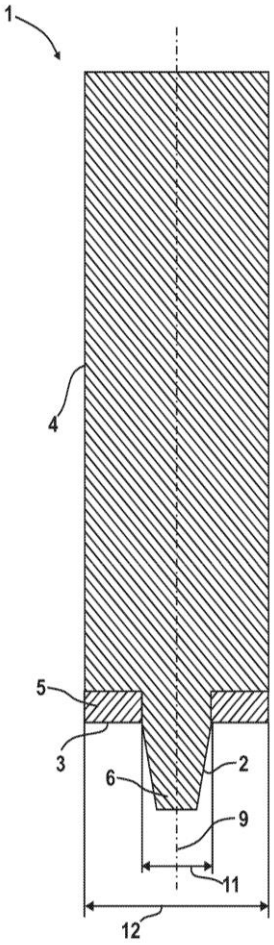


Fig. 3

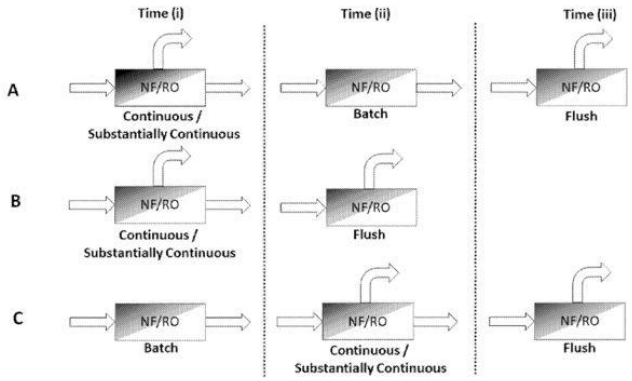
21: 2022/10198. 22: 2022/09/14. 43: 2023/04/17
51: B23K
71: STIRTEC GMBH
72: FIGNER, Gunter, CALISKANOGLU, Ozan, OPPENEIGER, Lucas, PFEIFFER, Christian

33: AT 31: A 50125/2020 32: 2020-02-20
54: FRICTION STIR WELDING TOOL AND METHOD FOR PRODUCING SAME
00: -
The invention relates to a friction stir welding tool (1), which has a pin and a shoulder (3) connected rigidly to the pin, for welding components (7) consisting of a parent metal having a melting point of more than 900°C, in particular steel. According to the invention, in order to achieve a particularly long service life of the tool, even with thick-walled components (7), the shoulder (3) consists at least partially of a first material, and the pin consists at least partially of a second material. The invention also relates to a the shoulder (3) consists at least partially of a first material, and the pin consists at least partially of a second material. The invention also relates to a method for joining components (7) consisting of one or more parent metals having a melting temperature of more than 900°C.



21: 2022/10199. 22: 2022/09/14. 43: 2023/04/12
51: C07D A61K A61P
71: LG CHEM, LTD.
72: KIM, Young Kwan, JO, Min Mi, PARK, Jun
33: KR 31: 10-2020-0033477 32: 2020-03-18
33: KR 31: 10-2021-0034452 32: 2021-03-17
54: GLP-1 RECEPTOR AGONIST, PHARMACEUTICAL COMPOSITION COMPRISING SAME, AND METHOD FOR PREPARING SAME
00: -
The present invention relates to a novel compound useful as an agent for treatment or prophylaxis of various metabolic diseases such as obesity or diabetes and hyperlipidemia, by means of excellent GLP-1 agonist activity and an excellent DMPK profile, an isomer thereof or a pharmaceutically acceptable salt thereof, a pharmaceutical composition comprising the compound, and a method for preparing the compound.

21: 2022/10245. 22: 2022/09/15. 43: 2023/05/25
51: B01D; C02F
71: CROSSTEK MEMBRANE TECHNOLOGY
72: Stanton Russel SMITH
33: US 31: 62/991,393 32: 2020-03-18
54: TECHNIQUES FOR MANAGING SCALE FORMATION IN WATER FILTRATION SYSTEMS AND A REVERSE OSMOSIS (RO) AND NANOFILTRATION (NF) SYSTEM IMPLEMENTING SAME
00: -
The present disclosure is directed to filtering technologies that combine elements of continuous and batch NF/RO based on the constraints of the end-user facility to achieve a target balance between, for instance, recovery and power consumption, and to reduce long term operating cost of a plant. A method for extending batch operation into a second induction period with antiscalant injection is also disclosed herein, with the second induction period allowing for yet higher water recovery.



21: 2022/10256. 22: 2022/09/15. 43: 2023/04/12
51: E05B
71: CISA S.p.A.
72: FABBRI, Matteo, FERRI, Giovanni, TALAMONTI, Enzo
54: CYLINDER LOCK AND KEY THEREOF
00: -
A cylinder lock (1) and a key (2) thereof, the lock (1) comprising a stator (3) within which a rotor (4) can rotate which is provided with a longitudinal channel (5) inside which respective primary pins (6, 7) are arranged substantially mutually opposite. The channel (5) is adapted for the insertion of a key (2) provided with a seat (8) for the accommodation of a respective lever (9) which can be oriented freely and is adapted to actuate the primary pins (6, 7). At least one of the primary pins (6) is constituted by a bushing (10) and a contoured grub (11) which has at least one segment (12a, 12b) of its contour whose shape and dimensions are complementary to those of the internal cavity (13) of the bushing (10). Axially acting elastic means (14) are interposed between the bushing (10) and the grub (11) for their respective mutual spacing in conditions of absence of external forces applied to the bushing (10) toward the grub (11). The stator (3) comprises a recess (15) whose shape and dimensions are complementary to those of the terminal front, in a radial direction, of the primary pin (6) for the temporary accommodation of the front; the recess (15) is aligned with the hole (16) of the rotor (4) within which the bushing (10) and the grub (11) are arranged. At least one elastic element (17) is interposed between the stator (3) and the at least one additional primary pin (7) for the forcing thereof within the longitudinal channel (5). Following the insertion of the key (2) in the longitudinal channel (5), the end of the primary pin (7) and a head (18) of the bushing (10) abut against the lever (9), with consequent partial inclination thereof with respect to the key (2) in the configuration for free translation of the primary pin (6) within the hole (16), without protrusion of the front of the primary pin (6) within the recess (15) of the stator (3).

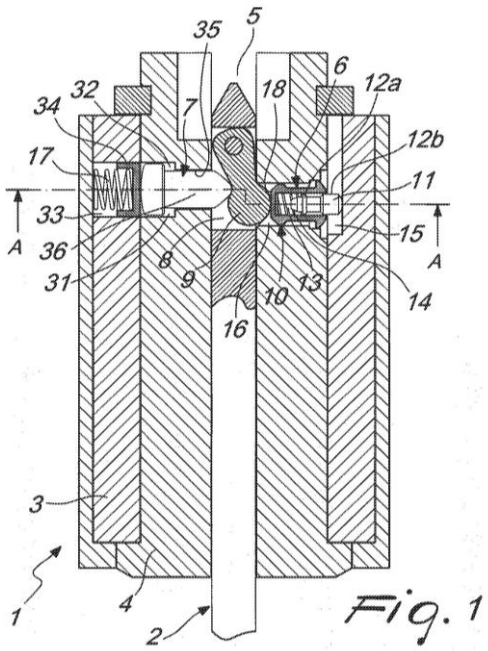
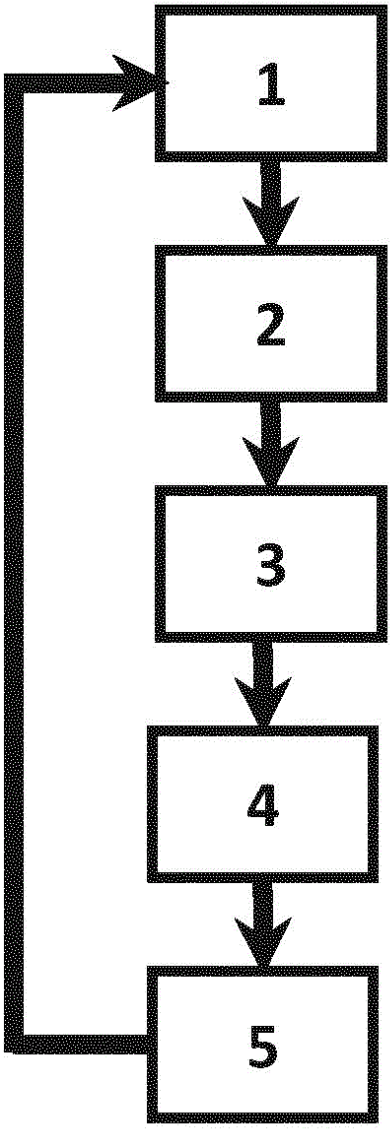


Fig. 1

21: 2022/10258. 22: 2022/09/15. 43: 2023/04/12
51: H02J
71: thyssenkrupp nucera AG & Co. KGaA
72: TSIKLIOS, Christos, BUERKIN, Cornelia, POLCYN, Gregor Damian, LUEKE, Lukas, TOROS, Peter, FEDERICO, Fulvio
33: DE 31: 10 2020 115 711.8 32: 2020-06-15
54: METHOD FOR ON-DEMAND CLOSED-LOOP CONTROL OF AN ELECTROCHEMICAL PLANT
00: -
A method for demand-based closed-loop control of an electrochemical plant, which comprises modules and a control unit, each module (M) being individually controlled by the control unit and supplied with a module-specific electric operating current, in order for each of the modules to generate a separate product flow, the product flows of the individual modules, which are connected in parallel with regard to their product flows, being merged to form a total product flow of the plant, wherein the following steps are carried out by the control unit (C) when a start condition is satisfied: - recording a

current total product flow demand 1, - recording the current efficiency of the modules (M) of the electrochemical plant depending on the ratio of the respective operating current and product flow 2, - determining the operationally ready modules 3,- determining module-specific target operating currents for the operationally ready modules to cover the current total product flow demand from a range of permissible module-specific target operating currents as a function of the efficiency of the modules and the current total product flow demand 4, - setting the operating currents of the operationally ready modules to the determined module-specific target operating currents 5.

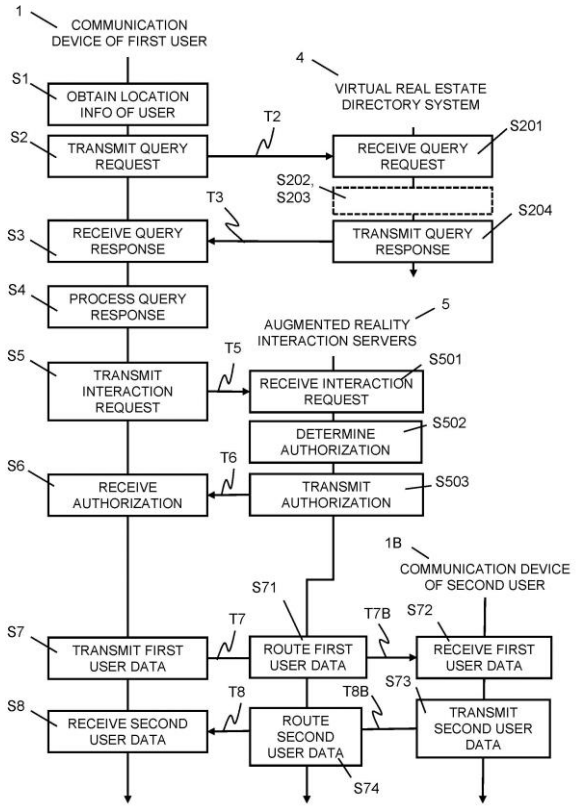


21: 2022/10262. 22: 2022/09/15. 43: 2023/04/13
51: H04W
71: Mentar Holding AG
72: SPOERRI, Reto
33: CH 31: 00342/20 32: 2020-03-23

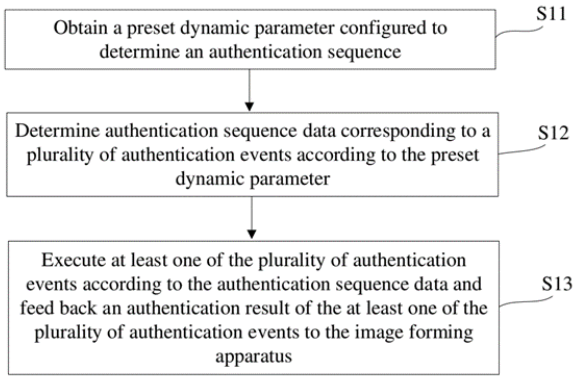
54: DEVICE AND METHOD FOR PROVIDING AUGMENTED REALITY INTERACTION

00: -

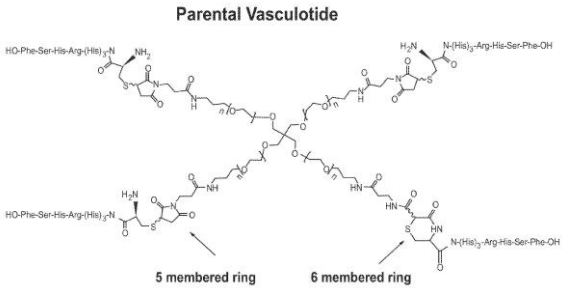
A communication device (1) configured to obtain (S1) location information of a first user; transmit (S2) a query request to a computerized virtual real estate directory system (4) and receive (S3) therefrom a query response. The query response comprises one or more virtual real estate objects assigned to a virtual real estate object location. The communication device (1) transmits (S5) an interaction request to one of the augmented reality interaction servers (5) and receives (S6) access authorization for the particular virtual real estate object. The communication device (1) transmits (S7) first user data to a communication device of a second user, associated with the particular virtual real estate object, via the augmented reality interaction server (5); and receives (S8) second user data from the communication device of the second user.



21: 2022/10296. 22: 2022/09/16. 43: 2023/04/24
51: G03G
71: ZHUHAI PANTUM ELECTRONICS CO., LTD.
72: YU, Chengzhu, NING, Dan
33: CN 31: 2021111132451 32: 2021-09-18
54: SECURITY VERIFICATION METHOD, CONSUMABLE CHIP, CONSUMABLE, AND IMAGE FORMING APPARATUS
00: -
The present disclosure provides a security verification method, a consumable chip, a consumable chipset, a consumable, and an image forming apparatus. The method includes obtaining a preset dynamic parameter configured to determine an authentication sequence; determining authentication sequence data corresponding to a plurality of authentication events according to the preset dynamic parameter; and executing at least one of the plurality of authentication events according to the authentication sequence data and feeding back an authentication result of at least one of the plurality of authentication events to the image forming apparatus. The authentication result is configured to determine whether a consumable corresponding to at least one of consumable chips in the consumable chipset satisfies a preset image forming requirement. The present disclosure effectively avoids the problem of damaging the image forming apparatus and affecting printing quality caused by the use of consumables provided by third parties that do not satisfy requirements.

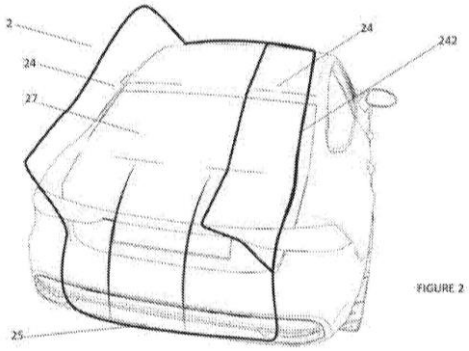


21: 2022/10311. 22: 2022/09/16. 43: 2023/04/13
51: A61K; C07K
71: HAMILTON, Douglas A., Vasomune Therapeutics, Inc.
72: HAMILTON, Douglas A., CHIKH, Ghania
33: US 31: 63/005,981 32: 2020-04-06
54: CORONAVIRUS THERAPEUTICS AND TREATMENT METHODS
00: -
The present disclosure relates to compounds of Formula (I) which are multimeric forms of a monomeric binding peptide linearly bonded to PEG moieties to form the multimers and their use in treating or preventing corona virus infections and Acute Respiratory Distress Syndrome

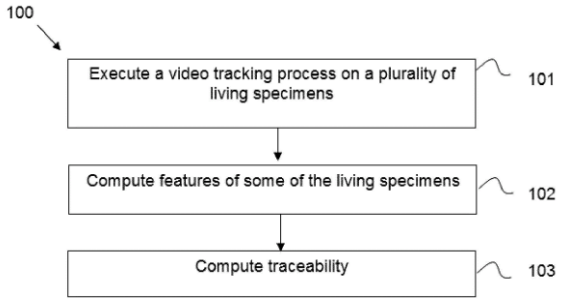


21: 2022/10312. 22: 2022/09/16. 43: 2023/04/13
51: B60J
71: MIGNONAT, Cédric
72: MIGNONAT, Cédric
33: FR 31: 2002586 32: 2020-03-17

54: VEHICLE HAIL PROTECTION SYSTEM AND ASSOCIATED HAIL PROTECTION TARPAULIN
00: -
The invention relates to a hail protection tarpaulin (2) for a vehicle (100). The tarpaulin comprises at least one ductile intermediate layer (22) with a low shrinkage rate, made up of at least one type of vibroabsorbent elastomer arranged in crystalline viscoelastic microcells, capable of absorbing and horizontally dispersing the shocks produced by the impact of the hail on the hail protection tarpaulin (2). The invention also relates to a storage mechanism (4) for a hail protection tarpaulin (2) as well as a hail protection system.



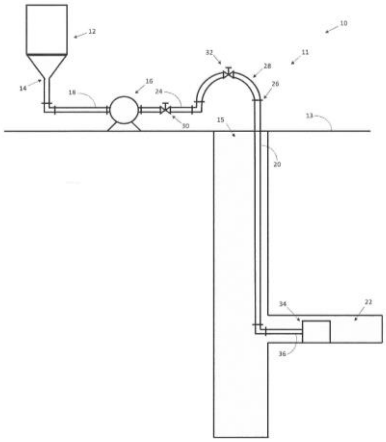
21: 2022/10314. 22: 2022/09/16. 43: 2023/04/11
51: G06K; G06T
71: Touchless Animal Metrics, SL
72: AMAT ROLDAN, Ivan
33: EP(ES) 31: 20382117.8 32: 2020-02-17
54: METHOD, SYSTEM AND COMPUTER PROGRAMS FOR TRACEABILITY OF LIVING SPECIMENS
00: -
A method, system and computer programs for traceability of living specimens are provided. The method comprises executing a first process that performs video tracking of a plurality of living specimens and that determines tracking features thereof; determining a trajectory vector that includes a trajectory followed by each detected living specimen; executing a second process at a certain period of time that determines secondary features of one or more living specimens; matching tracking features of the trajectory vector with the secondary features, providing reference point of hyperfeatures; determining secondary features of the living specimens for other periods of time, providing other reference points of hyperfeatures; identifying when two reference points are contained within a same digital identifier, and as a result providing a potential trajectory segment; comparing physical characteristics of said potential trajectory segment and establish that the potential trajectory segment is valid/invalid depending if said comparison is inside/outside a given range.



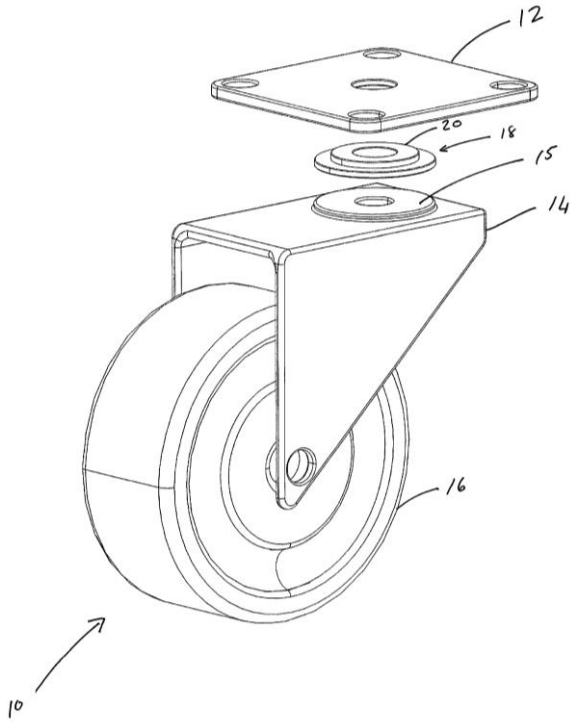
21: 2022/10370. 22: 2022/09/19. 43: 2023/04/13
51: A61K
71: Techfields Inc.
72: YU, Chongxi, XU, Lina
33: PCT/CN 31: 2020/080477 32: 2020-03-20
54: METHOD FOR IMPROVING THE STABILITY OF A PHARMACEUTICAL COMPOSITION COMPRISING A HIGH PENETRATION DRUG, AND THE PHARMACEUTICAL COMPOSITION OBTAINED THEREFROM
00: -
Provided are pharmaceutical compositions comprising at least one high penetration drug (HPD) that has at least one protonated amino group in its molecular and is capable of penetrating across one or more biological barriers in high rates, methods for improving the stability of the pharmaceutical compositions, and methods of using the pharmaceutical compositions for preventing, diagnosing and/or treating condition or disease in human, animals and plants.

21: 2022/10372. 22: 2022/09/19. 43: 2023/04/12
51: B65G; E21B; E21C; F04F; F42D
71: AECI MINING LIMITED
72: KHARATYAN, Ellina, KOTZE, Philliphus Rudolf
33: GB 31: 2005868.1 32: 2020-04-22
54: TRANSPORT OF EXPLOSIVES
00: -
A method of vertically transporting emulsion explosive includes, using a pump, pumping a

predetermined volume of emulsion explosive, from an emulsion explosive reservoir, into a vertically extending pipe, wherein pumping is effected airtightly at least between the pump and a downstream end of a volume of emulsion explosive that has been pumped into the vertically extending pipe for at least a part of the travel of emulsion explosive of the predetermined volume of emulsion explosive down the vertical pipe.



21: 2022/10468. 22: 2022/09/21. 43: 2023/04/13
51: B60B
71: LEGER, Jean-Patrick
72: LEGER, Jean-Patrick
33: ZA 31: 2020/01187 32: 2020-02-26
54: A CASTOR WHEEL ASSEMBLY
00: -
A castor wheel assembly (10) which includes a mounting member (12) for in use, mounting the castor wheel assembly (10) to a load carrier, a wheel bracket (14) for rotatably keeping a wheel, and a friction reduction element (18) mountable in between the mounting member (12) and the wheel bracket (14) for facilitating swivelling of the wheel bracket (14) relative the mounting member (12), wherein the friction reduction element (18) is manufactured from a material having a coefficient of friction value less than that of the mounting member (12) and/or the wheel bracket (14).



21: 2022/10520. 22: 2022/09/22. 43: 2023/04/13
51: A61F; A61L; C08J
71: IBERHOSPITEX, S.A.
72: RAMOS PÉREZ, Víctor, LÓPEZ MOYA, Mario
33: EP 31: 20382259.8 32: 2020-03-31
54: HYDROGEL COMPOSITIONS AND PREPARATION THEREOF
00: -
The present invention refers to a composition comprising: a) a crosslinked hydrophilic polymer containing amino functional groups, and b) a swelling agent, wherein the crosslinked hydrophilic polymer a) is obtainable by reacting a hydrophilic polymer containing amino functional groups with a crosslinking agent which contains at least two epoxide functional groups. The invention also refers to a method for preparing said composition and uses thereof in medical applications.

21: 2022/10533. 22: 2022/09/22. 43: 2023/04/13
51: A63F; G01S; G08G
71: I R Kinetics Limited
72: GARDNER, David, BRADLEY, Andrew
33: GB 31: 2006084.4 32: 2020-04-24
54: SYSTEMS AND METHODS FOR CONTROLLING AN INTERACTIVE HYBRID ENVIRONMENT REPRESENTING A MOTORISED SPORTING EVENT AT A TRACK

00: -
A computer implemented method of controlling an interactive hybrid environment representing a motorised sporting event at a track is described. The interactive hybrid environment includes representations of real and virtual vehicles on the track. The method comprises receiving a stream of real sensor data, the real sensor data comprises: real kinematic data of a real vehicle on the track, the real kinematic data being captured by infra-red sensors at the track, and real control data regarding the control of the real vehicle by a driver, the real control data being captured by vehicle sensors and obtained via telemetry systems from the real vehicle; determining the position and kinematic behaviour of the representation of the real vehicle within the interactive hybrid environment using the real kinematic data; using the real control data and the real kinematic data to create a black box determination of the position of the real vehicle on the track based on the real control data; receiving a stream of computer-generated control data which is obtained by user interaction with a computer presenting the interactive hybrid environment to the user and capturing the user inputs to control kinematic behaviour the representation of the virtual vehicle; and determining the position and kinematic behaviour of the representation of the virtual vehicle within the interactive hybrid environment by using the black box determination and the computer-generated control data.

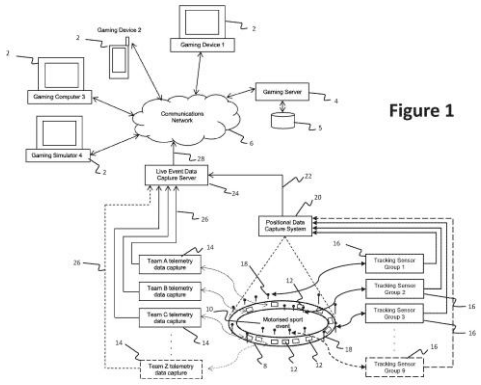
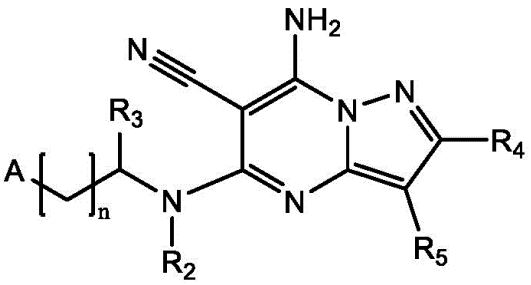


Figure 1

21: 2022/10536. 22: 2022/09/22. 43: 2023/04/12
51: F24H; H05B
71: Midrex Technologies, Inc.
72: ASTORIA, Todd Michael, LEWIS Jr., James Lloyd
33: US 31: 62/993,836 32: 2020-03-24
54: A METHOD AND SYSTEM FOR HEATING DIRECT REDUCED IRON (DRI) BETWEEN A DRI SOURCE AND PROCESSING EQUIPMENT FOR THE DRI
00: -
A method of heating direct reduced iron between a direct reduced iron source and processing equipment for the direct reduced iron, comprises providing a conduit heater assembly between the direct reduced iron source and the processing equipment, wherein the conduit heater assembly receives a flow of the direct reduced iron from the direct reduced iron source and heats the direct reduced iron as the direct reduced iron flows through the conduit heater assembly and to the processing equipment.

21: 2022/10537. 22: 2022/09/22. 43: 2023/04/12
51: A61K; A61P; C07D
71: Bugworks Research, Inc.
72: PEER MOHAMED, Shahul Hameed, BHARATHAM, Nagakumar, KAJIPALYA RANGANATHA RAO, Ranga Rao, NANDISHAIAH, Radha, KATAGIHALLI MATH, Nainesh, KAUSHIK KOTAKONDA, Harish, REDDY, Sambasiva
33: IN 31: 202141001078 32: 2021-01-09
54: DIAMINOPYRAZOLO[1,5-A]PYRIMIDINE-6-CARBONITRILE COMPOUNDS AS ADENOSINE 2A RECEPTOR AND ADENOSINE 2B RECEPTOR ANTAGONIST
00: -
The present disclosure provides a compound of Formula I or its pharmaceutically acceptable salts, complexes, hydrates, solvates, tautomers, polymorphs, stereoisomers, racemates, pharmaceutically active derivatives thereof. The compounds of Formula I act as antagonists to adenosine receptors. The present disclosure also provides a process for preparation of compounds of Formula I and pharmaceutical composition thereof.

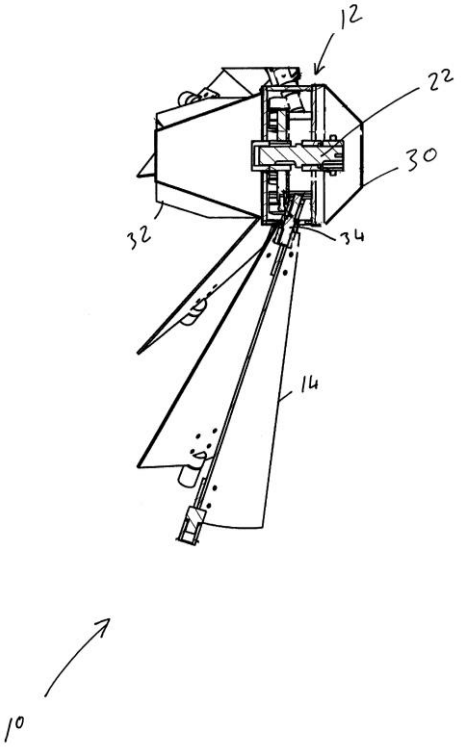


Formula I

21: 2022/10583. 22: 2022/09/23. 43: 2023/04/12
51: C01B; C21B
71: Midrex Technologies, Inc.
72: ASTORIA, Todd Michael, MICHISHITA, Haruyasu
33: US 31: 62/993,787 32: 2020-03-24
54: INTEGRATION OF DR PLANT AND ELECTRIC DRI MELTING FURNACE FOR PRODUCING HIGH PERFORMANCE IRON
00: -
A direct reduction process comprises providing a shaft furnace of a direct reduction plant to reduce iron oxide with reducing gas; providing a direct reduced iron melting furnace; and coupling a discharge chute between a discharge exit of the direct reduced shaft furnace and an inlet of the direct reduced iron melting furnace; wherein direct reduced iron and the reducing gas from the shaft furnace flow through the discharge chute and the reducing gas controls the melting furnace atmosphere to reducing environment.

21: 2022/10585. 22: 2022/09/23. 43: 2023/04/03
51: A61K; A61P
71: AiCuris GmbH & Co. KG
72: PAULSEN, Daniela, BIRKMANN, Alexander, LISCHKA, Peter, PFAFF, Tamara, ZIMMERMANN, Holger
33: EP(DE) 31: 20173670.9 32: 2020-05-08
54: PARAPOXVIRUS FOR CONDITIONING FOR AND TREATMENT OF CORONAVIRUS INFECTIONS
00: -
The present invention relates to the treatment of coronavirus infections and to preparing subjects for such an infection by administering a parapoxvirus. This treatment is to assist the immune system in combatting the virus and to thereby prevent and to ameliorate symptoms of coronavirus disease.

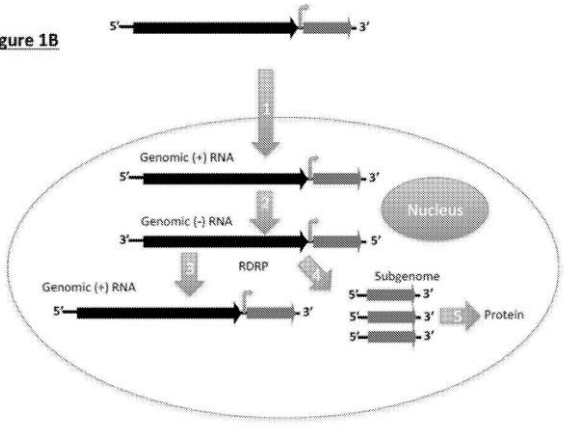
21: 2022/10603. 22: 2022/09/26. 43: 2023/04/13
51: F04D
71: STOLTZ, Henriët, Salomé
72: STOLTZ, Gabriël, Coenraad, Daniël
33: ZA 31: 2022/04833 32: 2022-05-03
54: VARIABLE GUIDE VANE ASSEMBLY
00: -
A variable guide vane assembly which includes a rotator, a plurality of inlet guide vane blades extending pivotally away from the rotator, inner connecting formations for interconnecting the guide vane blades to the rotator, the inlet guide vane blades further mounted so as to pivot and change an angle of the guide vane blades relative to an air flow upon rotation of the rotator; and outer connecting formations for interconnecting the guide vane blades to an outer wall, when in use.



21: 2022/10641. 22: 2022/09/26. 43: 2023/04/14
51: A61K; A61P
71: Imperial College Innovations Limited
72: SHATTOCK, Robin, MCKAY, Paul, BLAKNEY, Anna
33: GB 31: 2004493.9 32: 2020-03-27

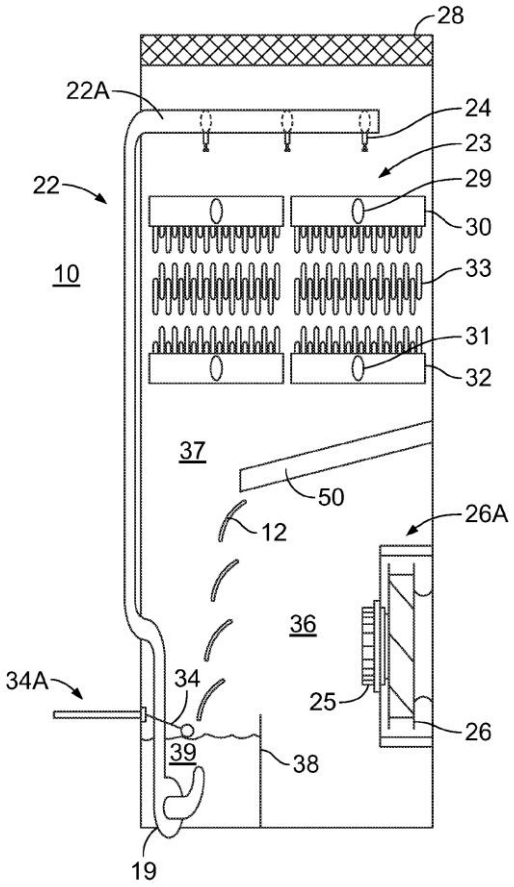
54: CORONAVIRUS VACCINE
00: -
The invention relates to vaccines, and in particular, to vaccines for preventing, treating or ameliorating coronavirus infections, such as severe acute respiratory syndrome coronavirus (SARS), SARS-CoV-2 and Middle East respiratory syndrome-related coronavirus (MERS). The invention is especially concerned with self-amplifying RNA replicons and genetic constructs or vectors encoding such RNA replicons, and their use in vaccine delivery for preventing infections of coronavirus. The invention extends to pharmaceutical compositions comprising such RNA constructs, and methods and uses thereof.

Figure 1B



21: 2022/10643. 22: 2022/09/26. 43: 2023/04/14
51: A61P; C07K
71: F. Hoffmann-La Roche AG
72: SHAO, Zhixin
33: EP(CH) 31: 20171356.7 32: 2020-04-24
54: ENZYME AND PATHWAY MODULATION WITH SULFHYDRYL COMPOUNDS AND THEIR DERIVATIVES
00: -
The present invention relates to proteins, particularly antibodies such as anti-CD20/anti-CD3 bispecific antibodies and anti a-synuclein antibodies, having monogalactosylated (G1) and digalactosylated (G2) glycans. More particular, the present invention relates to galactosylation engineering to generate proteins with improved therapeutic properties, including proteins with increased titer. Further, the invention relates to a cell culture medium and a mammalian cell as well as methods using said cell culture medium and said mammalian cell for producing said proteins. Moreover, the present invention relates to the use of said antibodies as a medicament such as for the treatment of cancer, particularly cancer associated with B-cells, or Parkinson's disease.

21: 2022/10683. 22: 2022/09/27. 43: 2023/04/14
51: C02F; F24F; F25B; G05D
71: BALTIMORE AIRCOIL COMPANY, INC.
72: BLAY, Preston, MORRISON, Frank T., AARON, David Andrew
33: US 31: 63/023,467 32: 2020-05-12
54: COOLING TOWER CONTROL SYSTEM
00: -
In one aspect, a cooling tower system is provided that includes an evaporative heat exchanger, a sensor configured to detect a parameter of evaporative liquid distributed onto the evaporative heat exchanger, and an evaporative liquid treatment system. The cooling tower system further includes a controller having a normal operating mode wherein the controller operates the evaporative liquid treatment system to treat the evaporative liquid upon a determination of inadequate evaporative liquid quality based at least in part on the parameter of the evaporative liquid. The controller has a failsafe operating mode wherein the controller changes operation of the cooling tower upon a determination that the operation of the evaporative liquid treatment system is unable to remedy the inadequate evaporative liquid quality.



21: 2022/10714. 22: 2022/09/28. 43: 2023/04/13
51: A62B
71: NEL, Rudi
72: NEL, Rudi
54: VEHICLE SECURITY DEVICE
00: -
The invention provides vehicle security device. The vehicle security device includes an open-ended hollow cylinder, which cylinder is shaped and configured, at a first end of the cylinder, to connect to the neck of a small aerosol can, is shaped and configured, at its second end, to protrude through a hole through in a panel and to be fastened to the panel, is provided with an opening in its side, and is configured to receive an actuator axially slidable therein and which actuator protrudes through the open second end of the cylinder. The actuator is generally elongate, which actuator is hollow at a first end and defines a hollow stem of an aerosol can or is configured to sealingly fit to a stem of an aerosol can, at a first end of the actuator; a fluid outlet tube extending transversely from the actuator and through or towards the opening in the side of the hollow cylinder and in fluid communication with the hollow first end of the actuator, and defines an actuator button at second end, which button protrudes through the open second end of the cylinder.

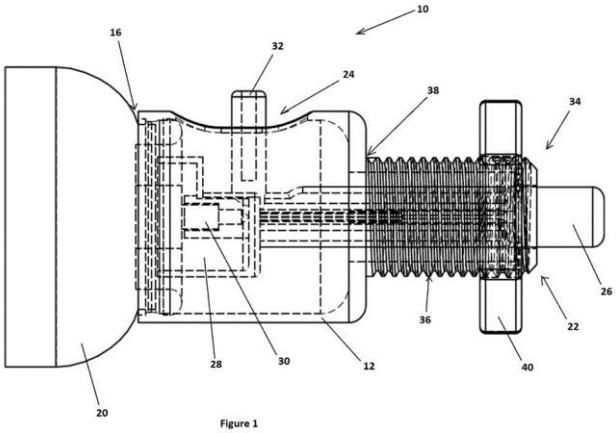


Figure 1

21: 2022/10715. 22: 2022/09/28. 43: 2023/04/17
51: B23Q
71: PUREM GMBH
72: MASSONE, MARCO, KRENZ, DANIEL
33: DE 31: 10 2021 127 181.9 32: 2021-10-20
54: INTERCHANGEABLE CARRIER SYSTEM
00: -
An interchangeable carrier system, in particular for workstations for producing components for exhaust systems of internal combustion engines, comprises a base unit (22) and a carrier unit (68), which is to be releasably fixed to the base unit (22) in a working position, wherein a coupling/fixing arrangement (30) is provided on the base unit (22) and a counterpart coupling/fixing arrangement (89), which can be brought into positive coupling engagement with the coupling/fixing arrangement (30) during a sliding movement of the carrier unit (68) in a sliding movement direction into the working position, is provided on the carrier unit (68), and wherein, when the carrier unit (68) is positioned in the working position, the carrier unit (68) can be fixed with respect to the base unit (22) by the coupling/fixing arrangement (30).

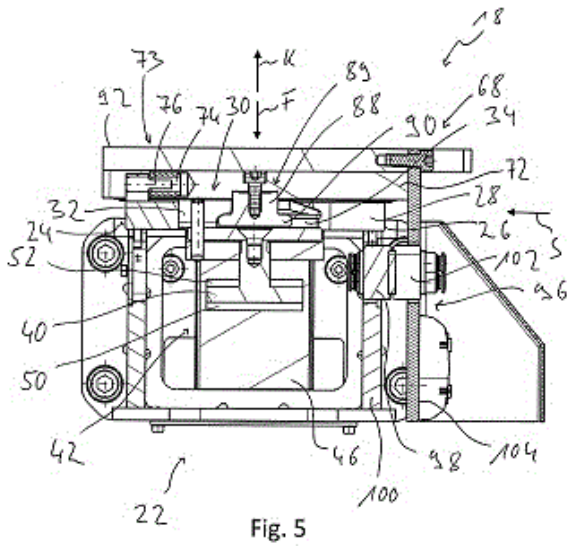


Fig. 5

21: 2022/10730. 22: 2022/09/28. 43: 2023/04/13
51: C08J
71: EVONIK OPERATIONS GMBH
72: WURSCHE, Roland, TRASSL, Christian, GEERKENS, Sebastian, BLASCHKE, Jörg, BERNHARD, Kay, HOLLEYN, Denis
33: EP 31: 20167916.4 32: 2020-04-03
54: PEI OR PEI-PEEK PARTICLE FOAMS FOR APPLICATIONS IN LIGHTWEIGHT CONSTRUCTION
00: -
Polymer foams based on polyetherimides (PEI) or blends of polyetherimides and polyether ether ketone (PEEK) meet the legal requirements demanded by the aviation industry for aircraft interiors and for aircraft exteriors too.

21: 2022/10764. 22: 2022/09/29. 43: 2023/04/17
51: A61K; A61P; A61Q
71: Givaudan SA
72: SENNELIER-PORTET, Benedicte, DINANT-BILINSKI, Celine, REYNAUD, Romain
33: GB 31: 2114053.8 32: 2021-09-30
54: COMPOSITIONS
00: -
Compositions and antioxidants comprising carnosic acid and an oil are provided, as well as methods and uses of such compositions and antioxidants and products comprising such compositions and antioxidants.

21: 2022/10766. 22: 2022/09/29. 43: 2023/04/13
51: A01G
71: NEEDFORSPEED TRADING (PTY) LTD
72: HATTINGH, MONDREAN, HATTINGH, WERNER GUNTER
33: GB 31: 2113943.1 32: 2021-09-29
54: AN AEROPONICS SYSTEM AND APPARATUS THEREOF
00: -
This invention relates to an aeroponics system which includes a supporting frame, a planting scaffold connectable to the supporting frame, dispensing means configured to dispense a plurality of fluids including liquids to a seed or plant material on the planting scaffold; and collection means to collect and recycle the fluids dispensed through the dispensing means. In use, the planting scaffold is connected to the supporting frame and seed or plant material is distributed about a top surface of the scaffold. The planting scaffold is a synthetic material with low to no liquid absorbency, and an open area of the synthetic material is from about 20% to about 60%.

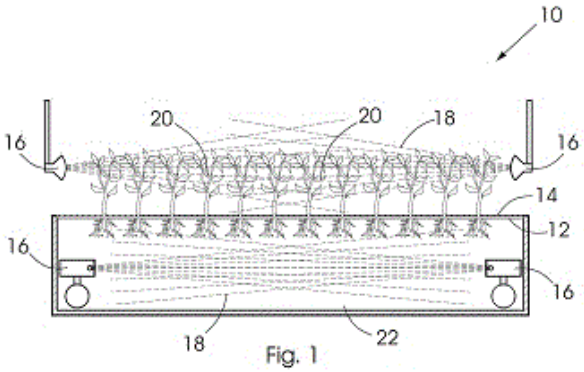
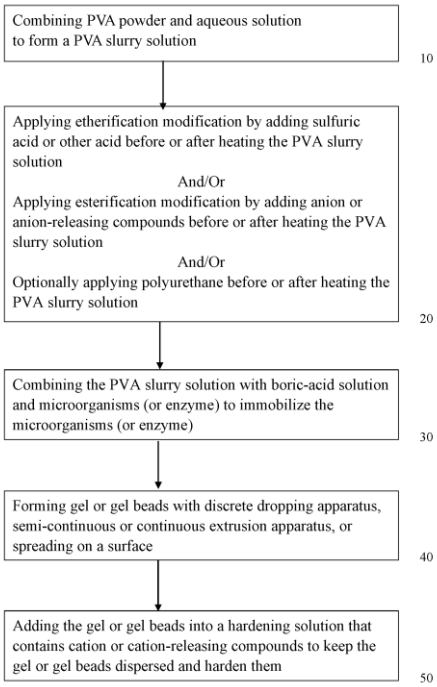
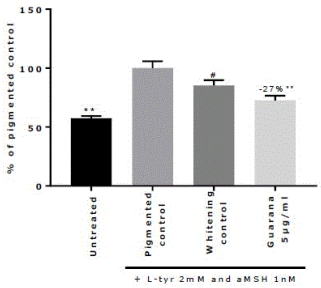


Fig. 1

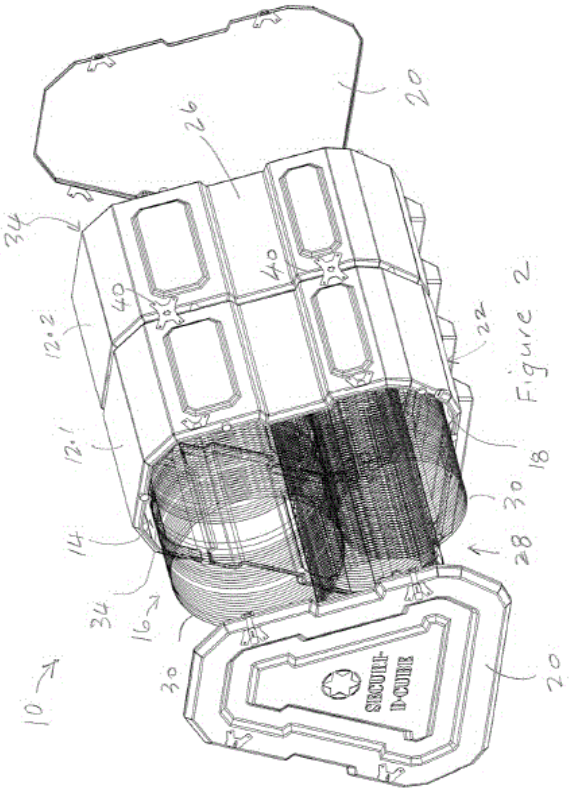
21: 2022/10783. 22: 2022/09/29. 43: 2023/04/12
51: B01J; C02F; C08L; C12N
71: GRAY PORTAL LLC
72: HWANG, Sz-Chwun, HO, Hsin-Yi, HUANG, Shih-Wei
33: US 31: 63/003,516 32: 2020-04-01
54: GEL AND GEL BEADS CONTAINING POLYVINYL ALCOHOL, POLYURETHANE AND IMMOBILIZED SUBSTANCES
00: -
Polyvinyl alcohol (PVA) gel and polyurethane (PU)ZPVA gel and gel beads, methods for making gel and gel beads with immobilized substances such as microorganisms, cells, enzymes, and/or other materials, methods for using gel and gel beads in various applications (e.g., wastewater treatment), and apparatus for manufacturing such gel and gel beads, are described.



21: 2022/10823. 22: 2022/09/30. 43: 2023/04/13
51: A61K; A61Q
71: Givaudan SA
72: SCANDOLERA, Amandine, DE TOLLENAERE, Morgane, MEUNIER, Marie, REYNAUD, Romain
33: GB 31: 2114132.0 32: 2021-10-01
54: METHODS
00: -
The present invention relates to the use of a guarana extract for skin lightening.

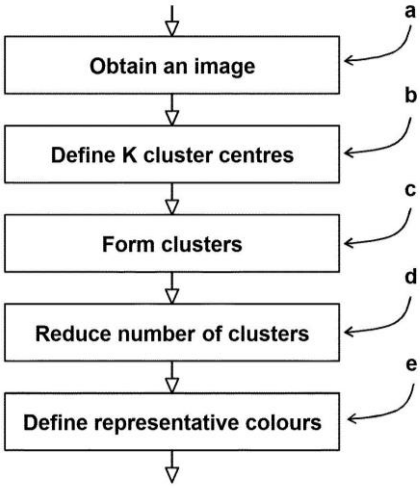


21: 2022/10928. 22: 2022/10/05. 43: 2023/06/07
51: E04H
71: ROADQUE (PTY) LTD
72: COETZEE, Francois
33: ZA 31: 2021/05493 32: 2021-08-03
54: A STOWAGE DEVICE
00: -
A stowage device for stowing and allowing rapid deployment of security fencing which includes a housing defining a receiving zone for receiving security fencing therein, openings defined in the housing for allowing security fencing to be stowed in and extend out of the receiving zone in a stowage and deployment condition respectively and closures for closing the openings and retaining the security fencing in the receiving zone in the stowage condition.



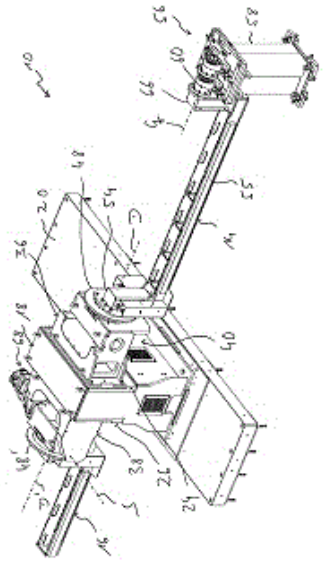
21: 2022/10982. 22: 2022/10/06. 43: 2023/04/19
51: G06T
71: Akzo Nobel Coatings International B.V.
72: SPIERS, Peter Mark, GIJSENIJ, Arjan
33: EP(NL) 31: 20169805.7 32: 2020-04-16
54: METHOD FOR DETERMINING REPRESENTATIVE COLOURS FROM AT LEAST ONE DIGITAL COLOUR IMAGE
00: -
The present invention relates to a computer implemented method for determining a predetermined number, k, of representative colours from at least one digital colour image, comprising the steps of: a) obtaining at least one digital colour

image having a number, p, of pixels each pixel having a colour value within an n-dimensional colour space; b) defining a predetermined number of K cluster centres which are distributed in a predetermined pattern in the colour space, wherein K > k; c) forming clusters by associating for each pixel its colour value with the nearest of the cluster centres; d) reducing the number of clusters to k by deleting cluster centres and/or merging clusters; e) from each of the resulting k clusters defining a respective representative colour.



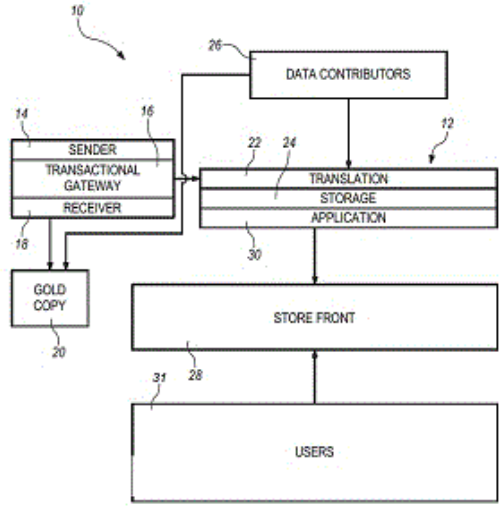
21: 2022/10984. 22: 2022/10/06. 43: 2023/04/19
51: A61K; A61P
71: Pfizer Inc.
72: CORBO, Michael, DANTO, Spencer Ian, KONCZ, Tamas, PEEVA, Elena, VALDEZ, Hernan, VINCENT, Michael Steven, WILLIAMS, Cara Margaret May
33: US 31: 63/005,303 32: 2020-04-04
54: METHODS OF TREATING CORONAVIRUS DISEASE 2019
00: -
The present invention is related to the discovery of new methods for treating the pathologic inflammatory response associated with patients infected with SARS-CoV-2 comprising administering orally to the patient in need of such treatment a therapeutically effective amount of a JAK inhibitor, a JAK/TYK inhibitor, or an IRAK4 inhibitor, or a combination thereof.

21: 2022/10996. 22: 2022/10/07. 43: 2023/04/19
51: B23K; B23Q
71: PUREM GMBH
72: BORM, SASCHA , KLEE, ANDREAS
33: DE 31: 10 2021 126 366.2 32: 2021-10-12
54: MODULAR WORKSTATION
00: -
A modular workstation comprises a work module support (18) having at least one work module support fastening region (24, 26) for fixing a work module (36, 38) to the work module support (18), a plurality of work modules (36, 38) having a work module fastening region for detachable fixing to a work module support fastening region (24, 26) of the work module support (18), wherein at least one of the work modules (36, 38) comprises a work carrier (48, 48‘) movable in at least one movement mode and a work carrier drive for driving the work carrier (48, 48‘) for movement in the at least one movement mode.



21: 2022/10998. 22: 2022/10/07. 43: 2023/04/19
51: G06Q; G06F
71: WU, FREDERICK
72: WU, FREDERICK
33: EP 31: 21205471.2 32: 2021-10-29
54: METHOD OF MANAGING INFORMATION FOR THE SUPPLY CHAIN OF A PERISHABLE COMMODITY
00: -
A method of managing information concerning the supply chain of a perishable commodity utilizing a data repository capturing multiple data sources. The method further includes the collating of the data into

a chain of custody information representation for use by data contributors.



21: 2022/11008. 22: 2022/10/07. 43: 2023/04/25
51: B63B; B65G; F17C
71: TRITEC MARINE LTD
72: MERMIRIS, Georgios, ROBERTS, Jamie
33: US 31: 63/008,377 32: 2020-04-10
33: US 31: 17/006,542 32: 2020-08-28
33: US 31: 17/175,994 32: 2021-02-15
33: IB 31: PCT/IB2020/058902 32: 2020-09-23

54: GAS SUPPLY MARINE VESSEL AND FLOATING REFUELING FACILITY

00: -

A gas supply marine vessel and a floating refueling facility are described. The gas supply marine vessel includes a hull with an upper deck having an elongated cargo cavity formed therein. Gas interface modules are disposed in the cavity and extend between hull sides, each module having a plurality of fuel vessel docking stations. A plurality of stacked fuel container assemblies are fluidically coupled to the docking stations. A gantry, movable along the length of the cavity, straddles the cargo cavity between hull sides. An articulating crane is mounted on the gantry and it utilized to move fuel container assemblies to a fuel container depression formed in the deck of the floating refueling facility. The floating refueling facility may include a concave side to facilitate mooring adjacent a shoreline, the concave side forming angled extensions at corners of the deck with a linkspan extending from each of the angled extensions.

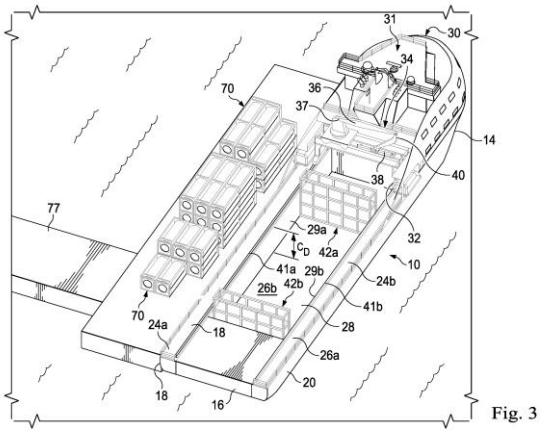


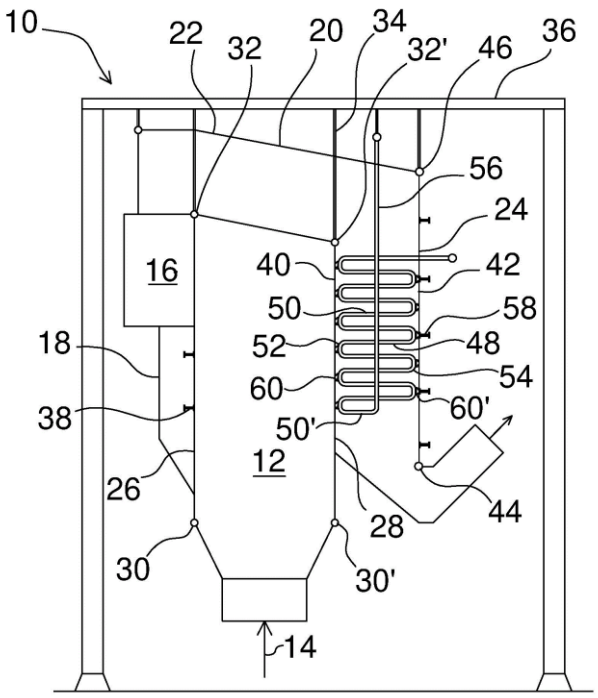
Fig. 3

21: 2022/11073. 22: 2022/10/10. 43: 2023/04/24
51: F22B
71: Sumitomo SHI FW Energia Oy
72: POLLARI, Jussi

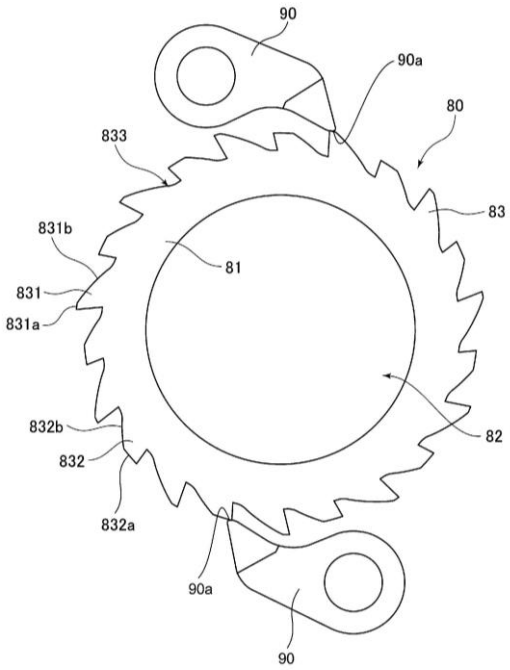
54: AN ARRANGEMENT FOR AND A METHOD OF SUPPORTING A SIDE WALL OF A VERTICAL FLUE GAS PASS IN A THERMAL POWER STEAM GENERATOR

00: -

An arrangement for and a method of horizontally supporting a side wall (40, 40', 64) of a top-supported flue gas pass (24, 24', 24'', 24'''), wherein the side wall comprises evaporative water tubes in a first temperature, and the flue gas pass comprises a superheating tube (48, 48') in a temperature higher than the first temperature and having rigid, horizontal tube legs (50) extending across the flue gas pass between the side wall (40, 40', 64) and a second side wall (42) of the flue gas pass and being supported from above by a hanger (56, 56') which is in operation in a temperature higher than the first temperature, wherein rigidity of the side wall is increased by horizontally supporting the side wall (40, 40', 64) by the horizontal tube legs (50) comprising end sections (52, 54) attached to the side walls by attaching means (60, 60', 68) allowing relative movements of the end sections with respect to the side wall the end section is attached to only in direction of their relative thermal movement.

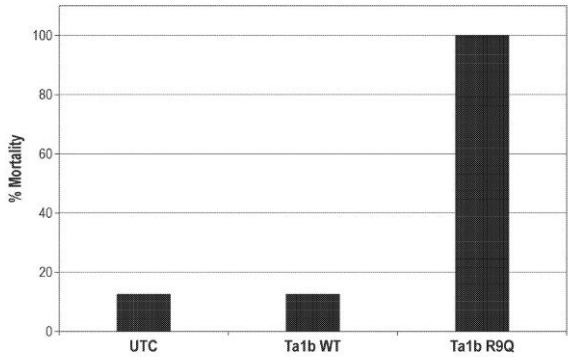


21: 2022/11129. 22: 2022/10/11. 43: 2023/04/24
51: B66D
71: Kito Corporation
72: SHIROTA, Akinori
33: JP 31: 2020-072176 32: 2020-04-14
54: BRAKE DEVICE, LEVER HOIST, AND RATCHET MECHANISM
00: -
Provided are a brake device, a lever hoist, and a ratchet mechanism which are capable of preventing backward rotation of a ratchet even when a switching knob has been mistakenly manipulated in the lowering direction during hoisting. A brake device 70 comprises: a brake receiver 71 which is axially supported by a drive shaft 25 in an un-rotatable manner and which is provided with a flange part 71a and a boss part 71b; a female screw member 35 which is axially supported by the boss part 71b and which screws together with a male screw part 26 that is on the outer circumference of the drive shaft 25; a ratchet 80 which is sandwiched between the facing flange part 71a and female screw member 35, and which is provided on the outer circumference side thereof with ratchet teeth 83 that restrict the direction of rotation to one direction; brake plates 72a, 72b which are disposed between the ratchet 80 and at least one of the flange part 71a and the female screw member 35; and a pair of pawl members 90 which engage with the ratchet teeth 83 and which are disposed at positions that have symmetry centered on the drive shaft 25, wherein the ratchet 80 is provided with tall teeth 831 and short teeth 832 that have a lower protruding height from the center than the tall teeth 831.

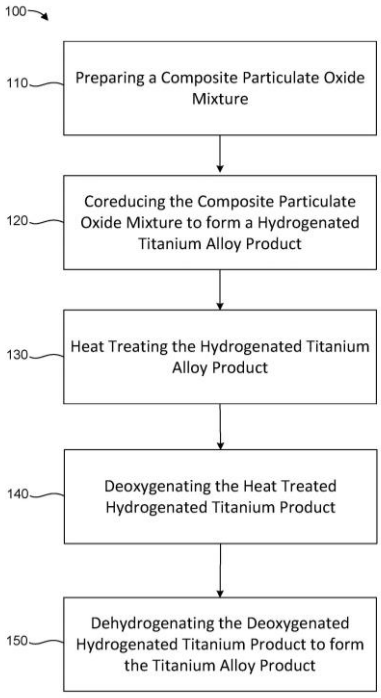


21: 2022/11136. 22: 2022/10/11. 43: 2023/04/24
51: A01N; C07K
71: Vestaron Corporation
72: SCHNEIDER, Kyle, HAASE, Alexandra, DAVIS, Breck, GARRETT, Ryan
33: US 31: 63/012,755 32: 2020-04-20
54: PROTEOLYTICALLY STABLE U1-AGATOXIN-TA1B VARIANT POLYPEPTIDES FOR PEST CONTROL
00: -
New insecticidal proteins, nucleotides, peptides, and their expression in plants. Methods of producing new nucleotides and new peptides, new processes, new production techniques, new formulations, and new organisms. The present disclosure is also related to and describes novel peptides called TVPs, which are non-natural peptide variations based upon the U1-agatoxin-Ta1b toxin derived from the Hobo spider. Here, we describe: genes encoding TVPs; formulations and combinations comprising TVP

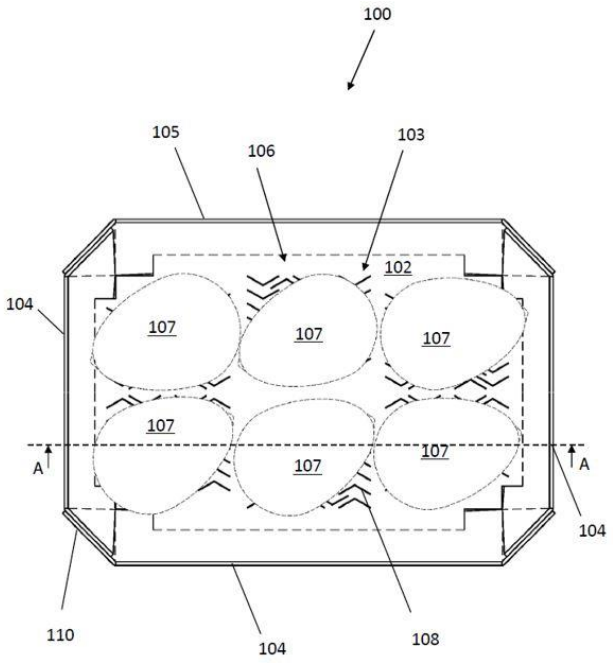
genes and/or peptides; and methods using the same that are useful for the control of pests.



21: 2022/11169. 22: 2022/10/12. 43: 2023/04/24
51: C22C
71: University of Utah Research Foundation
72: FANG, Zhigang Zak, XIA, Yang, SUN, Pei, ZHANG, Ying
33: US 31: 16/820,413 32: 2020-03-16
54: METHODS OF PRODUCING A TITANIUM ALLOY PRODUCT
00: -
A method (100) for producing a particulate titanium alloy product can include preparing (110) a composite particulate oxide mixture with TiO2 powder and at least one alloying element powder. The composite particulate oxide mixture can be co-reduced (120) using a metallic reducing agent under a hydrogen atmosphere at a reduction temperature for a reduction time sufficient to produce a hydrogenated titanium alloy product. The hydrogenated titanium alloy product can then be heat treated (130) under a hydrogen atmosphere and a heat treating temperature to reduce pore size and specific surface area to form a heat treated hydrogenated titanium product. The heat treated hydrogenated titanium product can be deoxygenated (140) to reduce residual oxygen to less than 0.2 wt% to form a deoxygenated hydrogenated titanium product as a particulate. The deoxygenated hydrogenated titanium product can optionally be dehydrogenated (150) to form the titanium alloy product as a particulate.



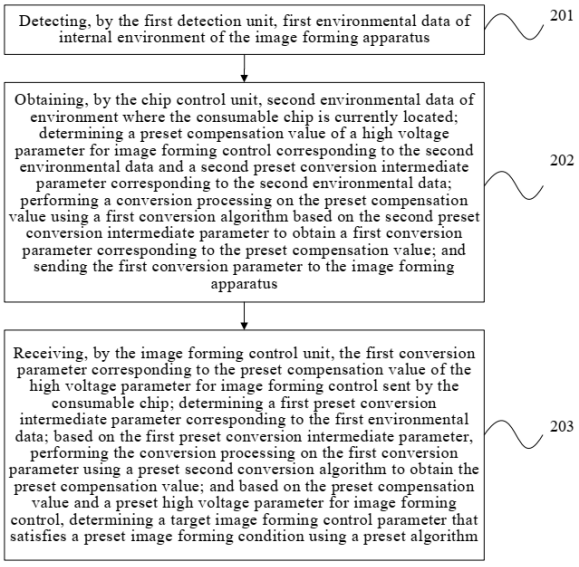
21: 2022/11229. 22: 2022/10/13. 43: 2023/04/24
51: B65D
71: GRAND PLASTICS (PTY) LTD
72: LE GRANGE, Clyde Jared
54: PACKAGING CONTAINER FOR FOODSTUFFS
00: -
The present disclosure relates to a packaging container for foodstuffs. The packaging container may include a base and a plurality of sides extending from the base so as to provide a receiving portion for operatively receiving foodstuffs. A plurality of notches may be formed in the base, wherein the notches are arranged to provide a flexible surface for the foodstuffs to rest on in use. The present disclosure extends to a blank for forming a packaging container, a method of manufacturing a packaging container, and a method of packaging foodstuffs.



21: 2022/11302. 22: 2022/10/14. 43: 2023/04/24
51: A61K; A61P
71: QUANTUM GENOMICS, INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE, CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, COLLEGE DE FRANCE
72: BALAVOINE, Fabrice, LLORENS-CORTES, Catherine, MARC, Yannick
33: EP 31: 20305447.3 32: 2020-05-06
54: PHARMACEUTICAL COMBINATION COMPRISING A BRAIN AMINOPEPTIDASE A INHIBITOR, A DIURETIC AND A BLOCKER OF THE SYSTEMIC RENIN-ANGIOTENSIN SYSTEM
00: -
The present invention relates to a pharmaceutical combination comprising (i) firibastat, (ii) a diuretic and (iii) a blocker of the systemic renin-angiotensin system selected from the group consisting of angiotensin I converting enzyme inhibitors (ACEIs) and angiotensin II receptor type 1 (AT1R) antagonists. Said composition is particularly useful for the treatment of hypertension and related diseases and conditions.

21: 2022/11316. 22: 2022/10/14. 43: 2023/04/24
51: B60C; C08K; C08L
71: Bridgestone Europe NV/SA
72: AURISICCHIO, Claudia, CALZETTA, Alessandra, DI RONZA, Raffaele
33: PCT/IB(BE) 31: 2020/052386 32: 2020-03-16
54: RUBBER COMPOSITION, RUBBER PRODUCT AND TYRE
00: -
The present invention provides rubber compositions suitable for tyre manufacture comprising a functionalised polymer and a functionalised silica.

21: 2022/11337. 22: 2022/10/17. 43: 2023/04/11
51: B41J
71: ZHUHAI PANTUM ELECTRONICS CO., LTD.
72: LI, Haixiong, XIONG, Dan
33: CN 31: 202011425780.6 32: 2020-12-08
33: CN 31: 202111325506.6 32: 2021-11-10
54: IMAGE FORMING CONTROL METHOD, CONSUMABLE CHIP, IMAGE FORMING APPARATUS, AND CONSUMABLE
00: -
Embodiments of the present disclosure provide an image forming control method, a consumable chip, an image forming apparatus, and a consumable. For the image forming control method, based on the environmental data, the encryption and decryption processing and transmission are performed on the preset compensation value of the image forming control parameter using the environmental data respectively detected by the consumable chip and the image forming apparatus. The preset compensation value is prevented from being intercepted and tampered during transmission, which makes data transmission more secure, thereby ensuring the printing and image forming quality.



21: 2022/11394. 22: 2022/10/18. 43: 2023/04/25
51: B60P
71: KLEIN, Amos
72: KLEIN, Amos
33: IL 31: 273467 32: 2020-03-19

54: A STORAGE UNIT HAVING ADJUSTABLE VOLUME

00: -

A rigid extendable storage unit that comprises a front wall and a back wall positioned adjacent to the front wall in a folded state and configured to be deployed opposite the front wall, wherein the back wall has an opening configured to be covered. Side walls that are made of at least one section are provided and positioned adjacent to the front wall in a folded state and extended between the front wall and the back wall in a deployed state. A roof is positioned adjacent to the front wall in a folded state and extended to enclose a volume formed between the front wall, the back wall and the side walls. In the folded state, the extendable storage unit occupies minimal area of the surface or the platform it is mounted on and transforming the storage unit from folded state to deployed state and vice versa can be handled manually or automatically.

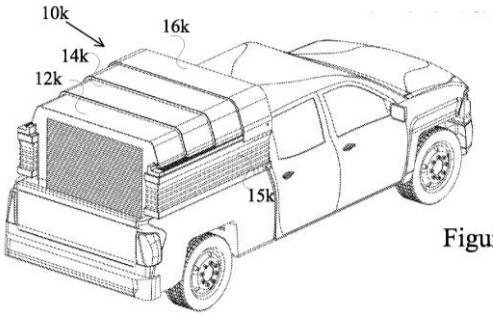


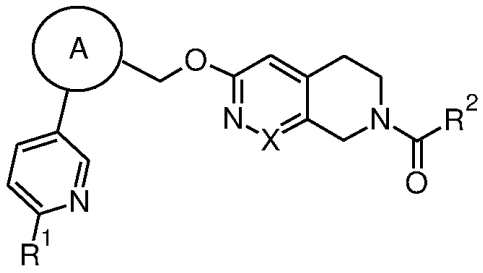
Figure 9C

21: 2022/11414. 22: 2022/10/18. 43: 2023/04/28
51: A61K; C07D; A61P
71: RICHTER GEDEON NYRT.
72: SZABÓ, György, POTOR, Attila, VÁGÓ, István, TÚRÓS, György István, ÉLIÁS, Olivér, KAPUS, Gábor László
33: HU 31: P2000113 32: 2020-03-26

54: NAPHTHYRIDINE AND PYRIDO[3,4-C]PYRIDAZINE DERIVATIVES AS GABAA A5 RECEPTOR MODULATORS

00: -

The present invention provides compounds of formula (I) and/or salts thereof and/or biologically active metabolites thereof and/or prodrugs thereof and/or solvates thereof and/or hydrates thereof and/or polymorphs thereof having affinity and selectivity for the gamma-aminobutyric acid A receptor subunit alpha 5 and act as GABAA a5 positive allosteric modulators, thereby useful in the treatment or prevention of diseases related to the GABAA a5 receptor, process for the preparation and intermediates of the preparation process thereof, pharmaceutical compositions comprising them alone or in combination with one or more other active ingredients and their use as medicaments.



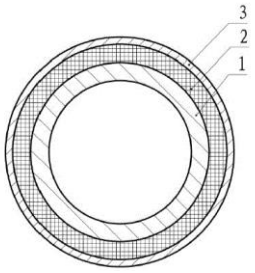
(I)

21: 2022/11438. 22: 2022/10/19. 43: 2023/04/25
51: B23B; B29C; F16L
71: Jiangsu XCMG Construction Machinery Research Institute Ltd.
72: ZHANG, Xiang, CHEN, Bo
33: CN 31: 202210466098.4 32: 2022-04-29

54: COMPOSITE MULTI-LAYER PIPE AND PREPARATION METHOD THEREOF

00: -

The present invention relates to a composite multi-layer pipe and a preparation method thereof. The composite multi-layer pipe has an inner-layer pipe made of a SiC particle reinforced aluminum-based composite material and has a middle-layer pipe made of a foamed aluminum, which significantly improves the overall rigidity of the pipe for long-distance transportation and brings about good performances including shock resistance, impact resistance and energy absorption. An aluminum-lithium alloy is used as light outer-layer support wall. The three layers are matched by an extrusion process to form a pre-stressed interference fit.



21: 2022/11454. 22: 2022/10/19. 43: 2023/04/25
51: A01N; A01P
71: 4 FARMERS AUSTRALIA PTY LTD
72: PATTERSON, Philip
33: AU 31: 2020901288 32: 2020-04-24
54: METHOD FOR PREPARATION OF GLYPHOSATE COMPOSITION
00: -
A method of preparing glyphosate solution in a spray tank, comprising adding ammonium sulfate to spray-water in the spray tank; adding glyphosate acid powder to spray-water in the spray tank; adding a wetter surfactant to spray-water in the spray tank.

21: 2022/11456. 22: 2022/10/19. 43: 2023/04/25
51: F04D F28D F24T
71: ENVOLA GMBH
72: SCHECHNER, Alexander, IHLE, Gerhard
33: DE 31: 10 2020 108 377.7 32: 2020-03-26
33: DE 31: 10 2020 125 030.4 32: 2020-09-25
54: HEAT EXCHANGER ARRANGEMENT
00: -
The invention relates to a heat exchanger arrangement comprising a housing (GE), in which a supply air opening (ZO) is arranged circumferentially, a cover (DE), which covers the housing (GE) on an upper side and in which there is arranged an exhaust air opening (AO). A radial fan (RL) operated in reverse mode is arranged inside the housing (GE) such that it can generate an airflow between the supply air opening (ZO) and the exhaust air opening (AO), which airflow is directed radially inwardly in relation to the rotation axis (RA) of the radial fan and flows at least through an air heat exchanger (LT) arranged in the housing (GE).

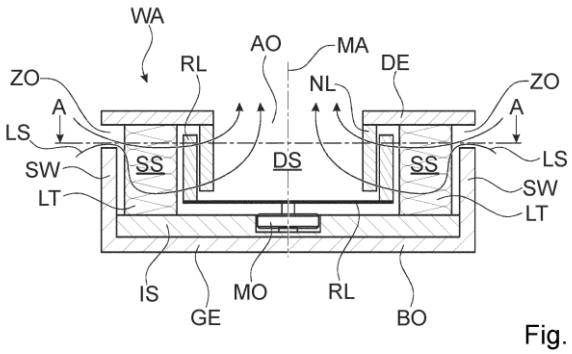
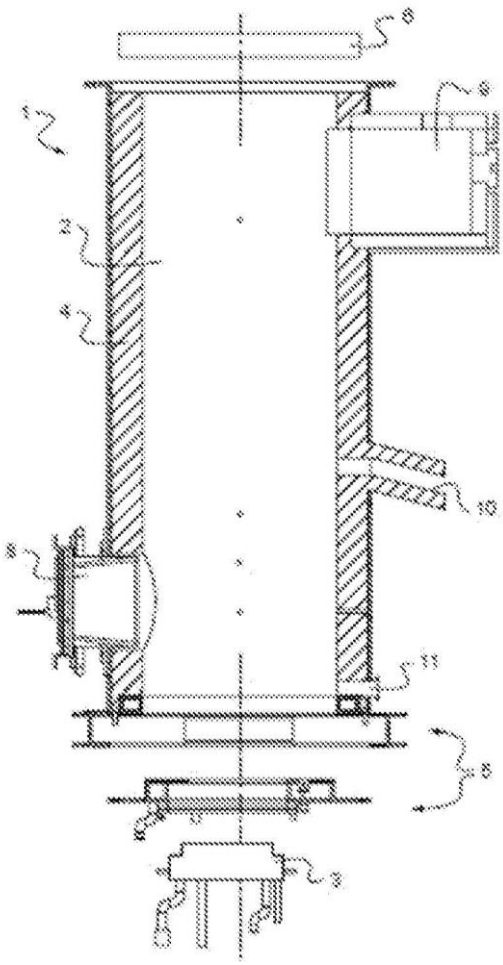
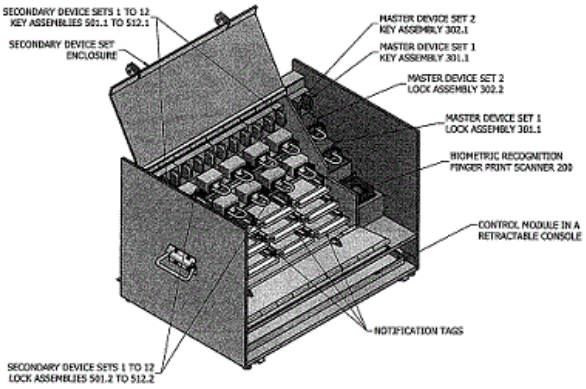


Fig. 1

21: 2022/11469. 22: 2022/10/19. 43: 2023/04/25
51: C03B; F27B; F27D
71: Saint-Gobain Isover
72: DUPEUX, Guillaume, VISPO, Antony, MARTIN, Alexandre, CHESNEL, Sébastien
33: FR 31: 2004299 32: 2020-04-30
54: HIGHLY ENERGY-EFFICIENT FURNACE
00: -
The invention relates to a facility 1 for melting a batch of raw materials, suitable for obtaining glass wool, glass textile yarns and/or flat glass, said facility comprising a melting chamber 2 equipped with at least one submerged burner 3 and being characterised in that the melting chamber 2 is defined by side walls 4 made of non-metallic refractory material and a bare metal floor 5 to which the submerged burner is fastened, the floor being traversed by a network of pipes for the circulation of a coolant fluid, preferably water.



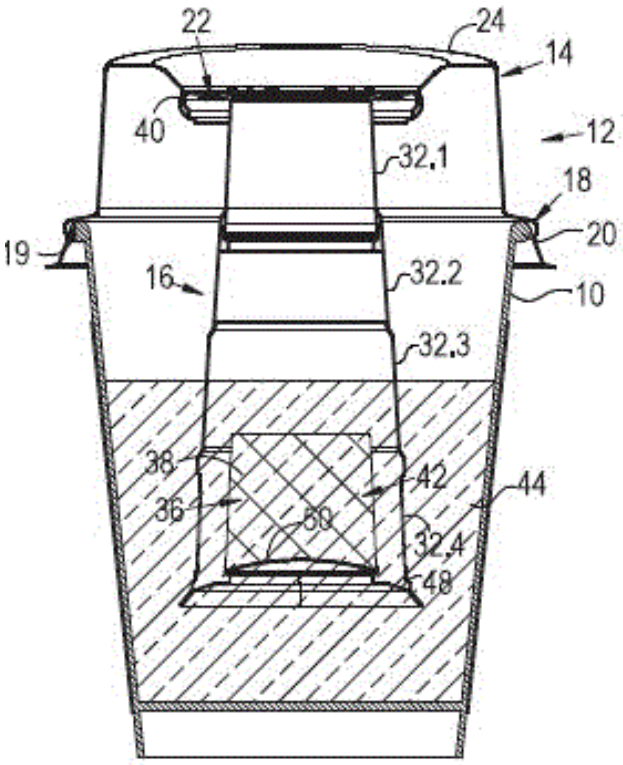
21: 2022/11499. 22: 2022/10/20. 43: 2023/04/26
51: H01H E05B
71: THAVER, Namasivayam, THAVER, Luxmiganthie
72: THAVER, Namasivayam, THAVER, Luxmiganthie
33: ZA 31: 2020/04478 32: 2020-07-21
54: LOCKOUT AND TAGOUT SEQUENCE CONTROL SYSTEM
00: -
The invention provides a lockout and tagout sequencing control system including an application system, a biometric recognition device (200), a master device sets (1,2), a control station, secondary device sets (1-12) and notification tags, wherein the master device sets, the secondary device sets and notification tags are configured in a mutual relationship with the biometric station (200) and application system where when a request is entered into the application system, acceptance and release is contingent upon an authentication protocol between the control station or the biometric recognition device (200) and the application system. The invention extends to a method of operating a lock out and tagout sequence control system as claimed in any one of the preceding claims, wherein release of the master devices (1,2), secondary devices (1-12) and notification tags is activated upon request from the application system contingent upon authentication from the biometric recognition device (200) which are configured for duplex communication with the devices.



21: 2022/11503. 22: 2022/10/20. 43: 2023/04/25
51: A01N; A01P; G01N
71: Syngenta Crop Protection AG
72: SHI, Yanxiang
33: US 31: 63/020,642 32: 2020-05-06
54: COLORIMETRIC MEASUREMENT OF FLUDIOXONIL
00: -
A process for determining the fludioxonil content in a liquid medium by performing a color reaction with [4-(dimethylamino)phenyl]methanol (p-DAB) or 4-Dimethylaminocinnamaldehyde (DMACA) and an acid in the presence of fludioxonil and obtaining a colorimetric reading for the resulting mixture after a period of time, wherein the acid is phosphoric acid, sulfuric acid, nitric acid, hydrochloric acid, acetic acid, carbonic acid, hydrofluoric acid, citric acid, oxalic acid or boric acid.

21: 2022/11528. 22: 2022/10/21. 43: 2023/04/25
51: B65D
71: GRUSS, Marc Allen
72: GRUSS, Marc Allen
33: ZP 31: 2020/02502 32: 2020-05-07
54: LIDS FOR DRINKING CUPS

00: -
An open-topped drinking cup 10 and a lid 12 comprising a lid cover 14 and a mixing device 16 for holding a mixing a condiment into a beverage 44 held in the dinking cup. The lid cover defines a circular mounting aperture 22 within which the mixing device is displaceably located. The mixing device 16 includes four tubular mixing elements 32.1, 32.2, 32.3 and 32.4 which are connected to another so as to be telescopically displaceable relative to one another between a retracted condition and an extended condition wherein the mixing device extends into the beverage 44. The mixing device 16 includes a condiment holder comprising a condiment chamber 36 which is defined within the mixing element 32.1, for holding a condiment 38 such as sugar. The mixing element 32.4 has a number of circumferentially-spaced slots 42 through which the condiment 38 is discharged into the beverage 44.



21: 2022/11777. 22: 2022/10/28. 43: 2023/04/28
51: A61K; C07C; C07D; A61P
71: LTD "VALENTA-INTELLEKT"
72: VLADYKIN, Aleksandr Lvovich
33: RU 31: 2020114906 32: 2020-04-27

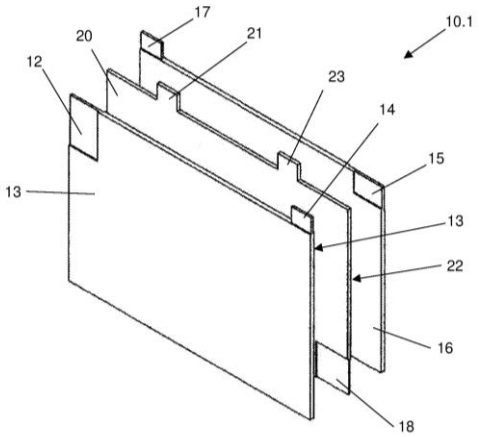
54: NOVEL COMPOUND [2-(DIMETHYLAMINO)-2-PHENYLBUTYL]-3,4,5-TRIMETHOXYBENZOATE 4-METHYL-2H-CHROMEN-2-ON-7-YL SULPHATE AND USE THEREOF

00: -
The invention relates to the field of organic chemistry and pharmacy and provides a novel compound [2-(dimethylamino)-2-phenylbutyl]-3,4,5-trimethoxybenzoate 4-methyl-2H-chromen-2-on-7-yl sulphate, a method for treating and preventing functional gastrointestinal disorders, which comprises administering an effective amount of compound [2-(dimethylamino)-2-phenylbutyl]-3,4,5-trimethoxybenzoate 4-methyl-2H-chromen-2-on-7-yl sulphate to a patient in need thereof, a pharmaceutical composition based on compound [2-(dimethylamino)-2-phenylbutyl]-3,4,5-trimethoxybenzoate 4-methyl-2H-chromen-2-on-7-yl sulphate, a drug comprising compound [2-(dimethylamino)-2-phenylbutyl]-3,4,5-trimethoxybenzoate 4-methyl-2H-chromen-2-on-7-yl sulphate, and a finished dosage form comprising compound [2-(dimethylamino)-2-phenylbutyl]-3,4,5-trimethoxybenzoate 4-methyl-2H-chromen-2-on-7-yl sulphate. The invention further relates to the use of compound [2-(dimethylamino)-2-phenylbutyl]-3,4,5-trimethoxybenzoate 4-methyl-2H-chromen-2-on-7-yl sulphate for treating and preventing functional gastrointestinal disorders.

21: 2022/12011. 22: 2022/11/02. 43: 2023/05/03
51: H01M
71: LUKATIT INVESTMENTS 12 (PTY) LTD
72: HUMAN, Jan Petrus
33: ZA 31: 2020/00734 32: 2020-04-04

54: RECHARGEABLE ELECTRICAL STORAGE DEVICES

00: -
Electrical storage devices (10,38) are provided with pasted negative electrodes (12) and pasted positive electrodes (15) with porous separators (18) between them, with current collectors (20,22) disposed between the separator (18) and the negative and positive pastes (13,16), respectively.



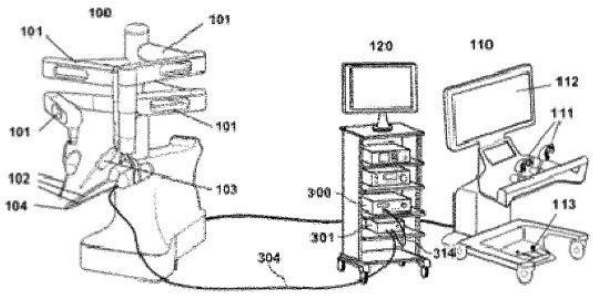
21: 2022/12175. 22: 2022/11/08. 43: 2023/05/12
51: C21D; C22C
71: ARCELORMITTAL
72: Véronique HEBERT, Vincent LHOIST, Matthieu SIEBENTRITT
54: HEAT TREATED COLD ROLLED STEEL SHEET AND A METHOD OF MANUFACTURING THEREOF
00: -
A heat treated cold rolled steel sheet comprising of the following elements,0.1% ≦ C ≦ 0.2 %; 1.2 % ≦ Mn ≦ 2.2 %; 0.05% ≦ Si ≦ 0.6 %; 0.001% ≦ Al ≦ 0.1 %; 0.01% ≦ Cr ≦ 0.5 %;0% ≦ S ≦ 0.09%; 0% ≦ P ≦ 0.09%; 0% ≦ N ≦ 0.09%; 0% ≦ Mo ≦ 0.5%; 0% ≦ Ti ≦ 0.1%; 0% ≦ Nb ≦ 0.1%; 0% ≦ V≦ 0.1%; 0% ≦ Ni ≦ 1%; 0% ≦ Cu ≦ 1%; 0% ≦ Ca ≦ 0.005%; 0% ≦ B ≦ 0.05%; the remainder composition being composed of iron and unavoidable impurities caused by processing, the microstructure of said steel comprising, by area percentage, 60% to 85% of tempered martensite, a cumulated amount of ferrite and bainite of 15 % to 38%, an optional amount of residual austenite of 0% to 5% and an optional amount of fresh martensite of 0 to 5%.

21: 2022/12176. 22: 2022/11/08. 43: 2023/05/12
51: C21D; C22C; C23C
71: ARCELORMITTAL
72: Dongwei FAN, Olga GIRINA
33: IB 31: PCT/IB2020/056330 32: 2020-07-06
54: HEAT TREATED COLD ROLLED STEEL SHEET AND A METHOD OF MANUFACTURING THEREOF
00: -
A cold rolled steel sheet having a composition comprising of 0.05 % ≤ Carbon ≤ 0.15 %, 1.8% ≤ Manganese ≤ 2.7%, 0.1% ≤ Silicon ≤ 1%,0.01% ≤ Aluminum ≤ 0.8%,0.1% ≤ Chromium ≤ 0.9%,0% ≤ Phosphorus ≤ 0.09%,0.0001% ≤ Titanium ≤ 0.1%,0.0005% ≤ Boron ≤ 0.003%, 0.01% ≤ Niobium ≤ 0.1%, 0 % ≤ Sulfur ≤ 0.09 %, 0 % ≤ Nitrogen ≤ 0.09%, 0% ≤ Vanadium ≤ 0.2%, 0%≤Molybdenum ≤0.2%, 0%≤ Nickel ≤2%, 0% ≤ Copper ≤ 2%, 0% ≤ Calcium ≤ 0.005%, 0% ≤ Cerium ≤ 0.1%, 0% ≤ Magnesium ≦ 0.05%, 0% ≤ Zirconium ≦ 0.05%, the remainder being composed of iron and unavoidable impurities caused by processing, the microstructure of said steel sheet comprising in area fraction, 40% to 60% martensite, 15 to 40% of inter-critical ferrite, a cumulated amount of 10 to 35% of transformed ferrite and bainite and 0% to 5% of residual austenite.

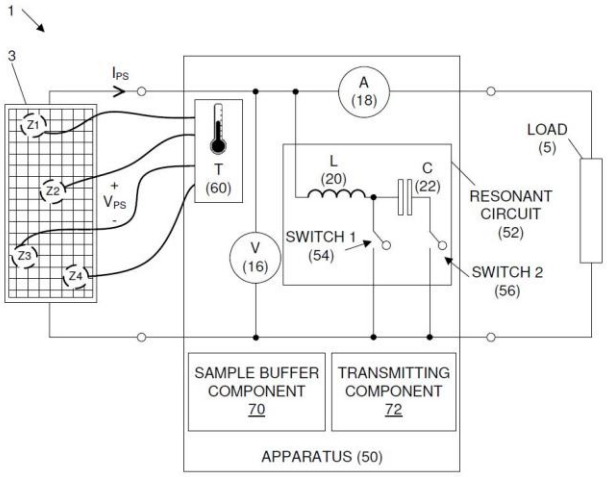
21: 2022/12236. 22: 2022/11/09. 43: 2023/05/22
51: A01G
71: Shandong Institute of Sericulture
72: WANG Xiangyu, QIAO Peng, GU Yinyu, FU Rao, MA Lan, SONG Yanjing, TIAN Wei, ZHANG Hongxia
54: EFFICIENT CULTIVATION WAY OF MESEMBRYANTHEMUM CRYSTALLINUM LINN
00: -
The invention discloses a efficient cultivation way of Mesembryanthemum crystallinum Linn, belonging to the technical field of plant cultivation. The efficient cultivation method of Mesembryanthemum crystalinum L. comprises the following steps: placing seeds in water, stirring, standing, taking bottom seeds, sieving with a 2 mm sieve, and airing; soak the screened seeds in clear water at 20-23 degree Celsius, and illuminate with LED light source until the seeds germinate and grow 2-3 leaves; the peat soil is filled in the holes of the seedling-raising tray, then the seedlings are moved into the holes, one seedling per hole is fixed with a sponge, and then the culture solution is dripped at 25 degree Celsius for shading culture; culture for 50-60 days to harvest. The cultivation method of the Mesembryanthemum crystalinum L. can improve the emergence rate of seeds, with neat emergence and high survival rate, and the cultivation method is simple and efficient, and can break through the limitation of the current cultivation conditions of Mesembryanthemum crystalinum L. and realize the large-scale production of Mesembryanthemum crystalinum L..

21: 2022/12240. 22: 2022/11/09. 43: 2023/05/22
51: A61B

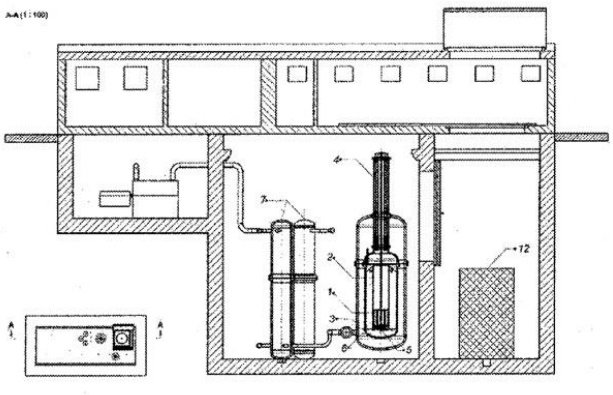
71: ROB SURGICAL SYSTEMS, SL
72: AMAT GIRBAU, Josep
33: EP 31: 20382338.0 32: 2020-04-27
54: SENSORY PERCEPTION SURGICAL SYSTEM FOR ROBOT-ASSISTED LAPAROSCOPIC SURGERY
00: -
The present invention proposes a sensory perception system for robot-assisted laparoscopic surgery. The invention comprises an electrosurgical forceps coupled to a surgical tool, an electrocautery radiofrequency signal generator and an impedance measurement circuit. The latter includes a measurement sensor for measuring a signal indicative of a magnitude corresponding to the value of contact impedance between the forceps and a patient's tissue; an oscillator; a first electrical circuit with resistors and a voltage limiter for protecting the measurement sensor and the oscillator; and a second electronic circuit with switches. The sensor and the oscillator are connected to the forceps by means of a power cable of the surgical tool. A processor connected to the measurement circuit receives said measured signal and converts same into a force vector, the modulus of which is a function of the contact impedance being measured and the argument is a function of the trajectory being followed.



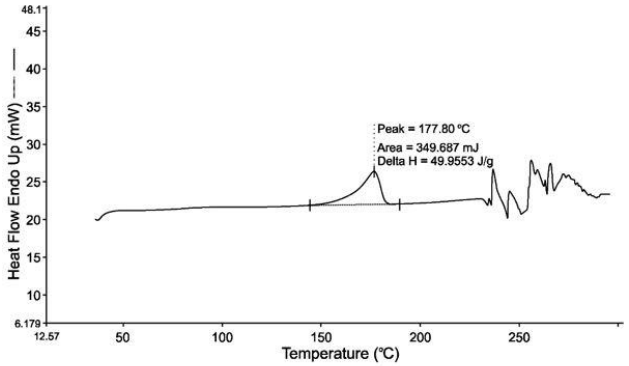
21: 2022/12300. 22: 2022/11/10. 43: 2023/05/19
51: H02J; H02S
71: STELLENBOSCH UNIVERSITY
72: STRAUSS, Johannes Matthias
33: ZA 31: 2020/03430 32: 2020-06-09
54: METHOD AND DEVICE FOR DETERMINING CHARACTERISTICS OF A PHOTOVOLTAIC POWER SOURCE
00: -
A method (1200) and apparatus (10, 50) are provided for determining characteristics of a photovoltaic (PV) power source. An inductor (20) and a capacitor (22) of a resonant circuit (12, 52) are connected (1202) in parallel with an output of the PV power source (3), thereby causing (1204) a transient oscillation of an output voltage and output current of the PV power source. Values of the output voltage and output current of the PV power source are sampled (1206) during the transient oscillation, and the sampled voltage and current values are usable to determine (1208) at least a section of a current-voltage (I-V) curve of the PV power source.



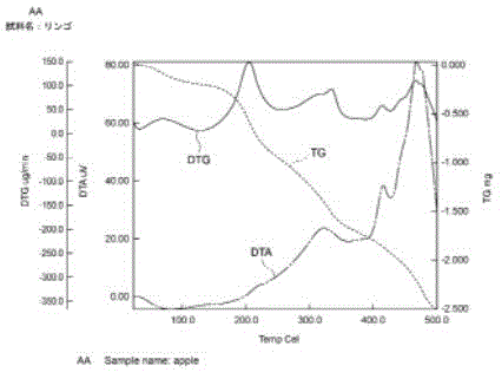
21: 2022/12516. 22: 2022/11/16. 43: 2023/05/22
51: G21C
71: WITKOWITZ ATOMICA A.S.
72: Frantisek CERMAK, Bronislav KULIKOV, Martin GROCH, David CHROBOK, Martin ULCAK
33: CZ 31: 2020-253 32: 2020-05-07
54: ENERGY SOURCE
00: -
An energy source using low-enriched nuclear fuel to produce heat contains a compact transportable pressure vessel (3) containing a cylinder (2) with the core (1) with heating element (5) formed by nuclear fuel (4) and continually agitated by a directed flow of heat-exchange liquid (5), to which a second pressure vessel is connected with a closed water bath circuit and a heat exchanger (7) for production of steam, while the compact transportable pressure vessel (3) can be placed in a space selected from the group underground concrete space with stainless steel lining, sea-river vessel and container modification for road and/or railway transport.



21: 2022/12517. 22: 2022/11/16. 43: 2023/05/22
51: C09K
71: MOVYCHEM, S.R.O.
72: Jiří VYLIMEC, Roman MAGDINA, Lubomír NĚMEČEK
33: SK 31: SK PP 50024-2020 32: 2020-05-05
33: SK 31: SK PP 50023-2020 32: 2020-05-05
54: FIREPROOF POLYMER ADDITIVE, METHOD OF ITS PRODUCTION AND APPLICATION
00: -
Fireproof polymer additive is created from the non-toxic components in such a way that the melt of waterless mixture of ammonium polyphosphate, pentaerythritol and preferably melamine and/or urea, too, is produced, with temperature ranging from 240 °C to 350 °C; the common melt is maintained at the said temperature for at least 30 seconds, subsequently it is left to cool and the solidified melt is disintegrated into particles smaller than 200 pm, preferably smaller than 50 pm, especially preferably smaller than 10 pm. Each of the two components can at the entry form 5 to 95% of the mass of the final mixture. In case of the realization with three or four components, each of the components can at the entry form 5 to 50% of the mass of the final mixture. The fireproof polymer additive is added to the basic material in ratio of 1 % to 80% of the share of the mass of the resulting matter; it can be added into a thermoplastic or into some component of the epoxy resin or polyester resin or vinyl ester resin, or into polyurethane base or into elastomeric rubber or bioplastic. Fireproof polymer additive is highly fire resistant and smoke resistant.



21: 2022/12549. 22: 2022/11/17. 43: 2023/05/22
51: A23K; C05F
71: GLENCAL TECHNOLOGY CO., LTD.
72: NAKAISHI Masahito
33: JP 31: 2020-106283 32: 2020-06-19
54: POWDER AND METHOD FOR MANUFACTURING POWDER
00: -
Provided are a powder that can be widely used in various applications, and a method for manufacturing the powder. A powder according to the present embodiment is obtained from a hydrous organic substance and has a moisture content of 20[%] or less, the number of aerobic mesophiles therein being 105/g or less, and a heat production maximum peak being detected at 300[°C] or higher therein by differential thermal analysis. The temperature at which the heat production maximum peak is detected by differential thermal analysis in this powder is higher than in conventional powders, and therefore this powder has a correspondingly wider range of usage applications and can be widely used in various applications. For example, usage applications of the powder include use as fertilizer or feed, as well as raw material for molded articles subjected to molding at high temperature.

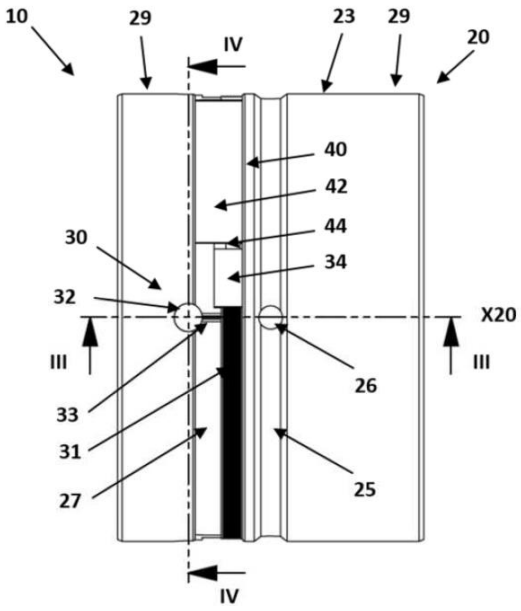


21: 2022/12582. 22: 2022/11/21. 43: 2023/05/24
51: E04F; E06B
71: Trellidor Innovations (Pty) Ltd, t/a Taylor Blinds and Shutters
72: Patrick BOOTH-JONES
33: ZA 31: 2021/09383 32: 2021-11-23
54: TILTING ARRANGEMENT
00: -
The invention discloses a tilting arrangement for a shutter, which includes tilting means associated with a shutter frame and being adapted to allow coordinated and parallel tilting of multiple louvers or sets of louvers. The tilting means are adapted to coordinate the movement (rotation) of the louvers. The tilting means are located and/or inserted and/or contained and/or hidden in a stile(s) of a shutter frame. The tilting means connect all the louvers (or individual tilt mechanisms connect groups of louvers) such that if one of the louvers or slats are rotated manually (by hand) or using a lever or other actuating device, then all the louvers in that group rotate together and the louvers remain parallel.

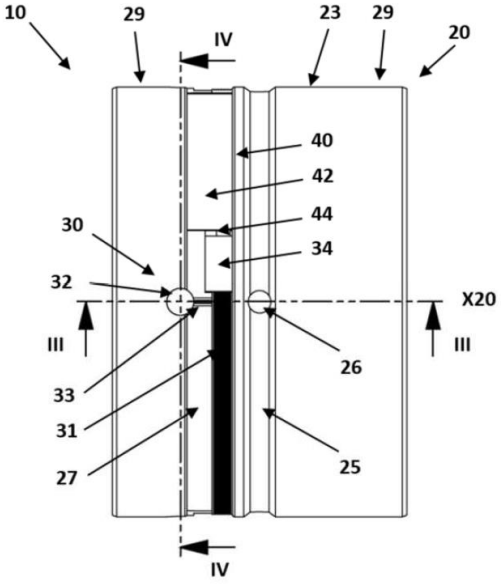
21: 2022/12583. 22: 2022/11/21. 43: 2023/05/24
51: E04F; E06B
71: Trellidor Innovations (Pty) Ltd, t/a Taylor Blinds and Shutters
72: Patrick BOOTH-JONES
33: ZA 31: 2021/09385 32: 2021-11-23
54: LOCKING ARRANGEMENT
00: -
The invention discloses a locking arrangement for a shutter, which includes locking means associated with a shutter frame and being adapted to lock the louvers into a set position and which is contained (hidden) within the stile of the shutter frame. The locking means forms part of a tilt mechanism that coordinates the set of louvers to move (rotate) together. The arrangement is adapted to provide a method of locking the louvers in a closed position (or other positions) by applying pressure to the tilt plate to rotate and lock all the louvers in a fixed position.

21: 2022/12584. 22: 2022/11/21. 43: 2023/05/24
51: E04F; E06B
71: Trellidor Innovations (Pty) Ltd, t/a Taylor Blinds and Shutters
72: Patrick BOOTH-JONES
33: ZA 31: 2021/09386 32: 2021-11-23
54: FRICTION ARRANGEMENT
00: -
The invention discloses a friction arrangement for a shutter, which includes friction means associated with a shutter frame having stile(s) and being adapted to apply friction to the full set of louvers using an adjustable and variable friction mechanism. The arrangement is adapted to use a component part of the tilt mechanism by applying a friction pad to the tilt plate and is useful in that it prevents movement of the louvers due to wind or vibration or other external forces or pressures. The arrangement is contained (hidden) in the shutter's stile(s).

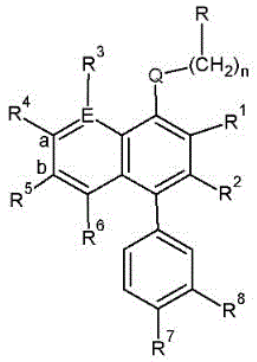
21: 2022/12645. 22: 2022/11/21. 43: 2023/05/24
51: F16C; G01M; G01N
71: HYDROMECANIQUE ET FROTTEMENT
72: PAVALLIER, Pierrick, PROST, Fabrice
33: FR 31: 2006880 32: 2020-06-30
54: GUIDE DEVICE AND MECHANICAL SYSTEM COMPRISING SUCH A DEVICE
00: -
The present invention relates to a guide device (10), comprising: a metal component (20) in the form of a bush provided with a friction surface (22) intended to receive a mating part (2) in frictional contact by sliding with oscillation; a wear sensing system (30) of the friction surface (22) comprising one or more sensors (32); a wireless communication system (40) connected to the detection system (30) and configured to transmit information relating to the wear of the friction surface (22) out of the guide device (10); characterized in that the sensor or sensors (32) are arranged exclusively on one longitudinal side (29) or on two longitudinal sides (29) of the bush, each longitudinal side (29) being defined over at most two fifths of the length of the annular bush.



21: 2022/12646. 22: 2022/11/21. 43: 2023/05/24
51: F16C; G01M; G01N
71: HYDROMECANIQUE ET FROTTEMENT
72: PAVALLIER, Pierrick, PROST, Fabrice
33: FR 31: 2006879 32: 2020-06-30
54: GUIDE DEVICE AND MECHANICAL SYSTEM COMPRISING SUCH A DEVICE
00: -
The present invention concerns a guide device (10) comprising: a metal component (20) provided with a friction surface (22) intended to receive a mating part (2) in sliding frictional contact; a detection sensing system (30) of a wear of the friction surface (22) or of a clearance between the friction surface (22) and the mating part (2), the detection system (30) comprising one or more sensors (32); and a wireless communication system (40) connected to the detection system (30) and configured to transmit information relating to wear or clearance out of the guide device (10).



21: 2022/12662. 22: 2022/11/21. 43: 2023/05/24
51: A61K; C07D; A61P
71: GODAVARI BIOREFINERIES LTD.
72: ATHAVALE, Maithili, SRIVASTAVA, Sangeeta, GAVADE, Sandip, KHARKAR, Prashant
33: IN 31: 202021019866 32: 2020-05-11
54: USE OF COMPOUNDS FOR TREATING VIRAL INFECTIONS
00: -
The invention relates to use of a compound of Formula I for inhibition of V-ATPase activity in a cell and a method of treating viral infections using the compounds of Formula I.



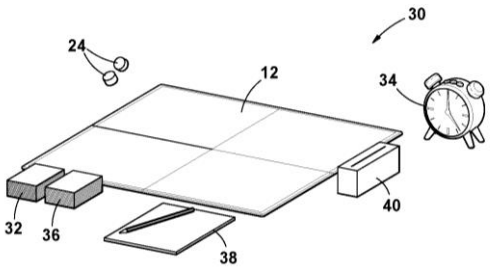
Formula I

21: 2022/12683. 22: 2022/11/22. 43: 2023/04/18
51: A63F
71: WATOTO WAZANIA NPC
72: NGCONGO, Mbuso, NGCONGO, Khanyiswa
33: ZA 31: 2019/04711 32: 2021-11-24

54: BOARDGAME APPARATUS

00: -

The present invention relates to a boardgame apparatus which includes a board 12 with four zones 16. The zones 16 are rectangular shaped and are connected with edges 14. Pathways connect the zones 16 to one another to allow a playing piece associated with a player to be displaced from one zone to another upon the player reading instructions and performing same. The pathways comprise nodes 20 that divide each pathway into edges 14. In use, a player selects a card from a pile 32 and follows the instruction on the card to place a piece 24 in one of the zones 16. The player picks up the token and places it on a specified zone 16. Depending on the time it has taken the player to execute this instruction, rewards is provided on a diminishing scale.



21: 2022/12695. 22: 2022/11/22. 43: 2023/05/25

51: C02F

71: Anhui Beichi Biotech Co.,Ltd

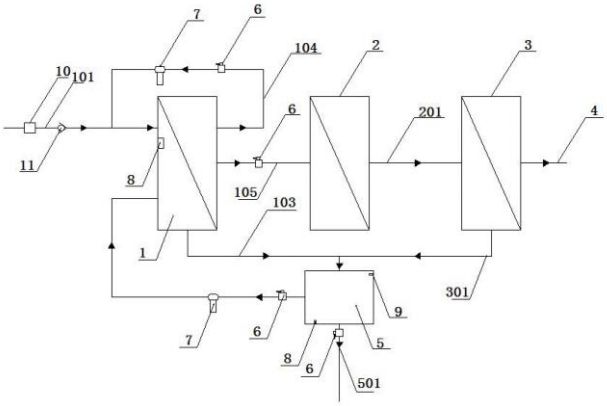
72: WANG,Yaqing

33: CN 31: 202210467953.3 32: 2022-04-29

54: WATER PURIFIER SYSTEM

00: -

The disclosure discloses a water purifier system, which relates to the field of water purifiers, in particular to a water purifier system, including a raw water inlet pipe communicated with a pre-filter element, wherein the pre-filter element is communicated with an intermediate filter element through a first water purification pipe, and the intermediate filter element is communicated with a RO reverse osmosis filter element through a second water purification pipe. The raw water inlet pipe, the waste water discharge pipe and the waste water return pipe are fixed on the raw water end of the pre-filter element. The waste water discharge pipe and the waste water return pipe are respectively communicated to the waste water bucket, and the pre-water purification end of the pre-filter element and the raw water inlet pipe are communicated through the backwash return pipe. The RO water purification end of RO reverse osmosis filter element is fixed with the second water purification pipe and the concentrated water discharge pipe, the concentrated water discharge pipe is communicated to the waste water bucket, and the waste water bucket is fixed with the sewage discharge pipe. The raw water end of the pre-filter element and the waste water bucket are provided with turbidity detectors. The disclosure collects waste water and concentrated water, and effectively uses them to wash the pre-filter element, so as to maximize the utilization of waste water and save water resources.



21: 2022/12724. 22: 2022/11/22. 43: 2023/05/25

51: C03C

71: EXXERGY GMBH

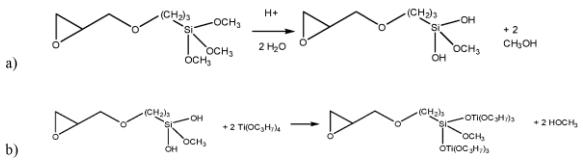
72: BROWN, John, YOLDAS, Bulent, SAUER, Thomas C.

33: DE 31: 10 2020 112 268.3 32: 2020-05-06

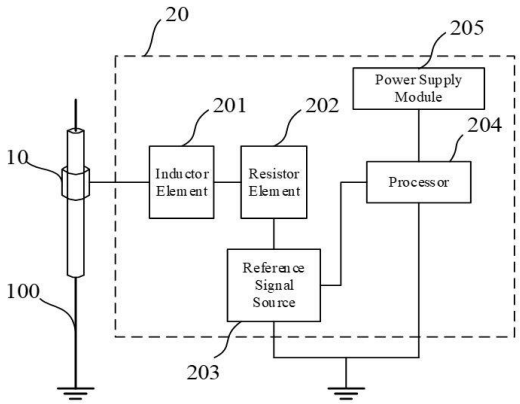
54: IMPROVEMENT OF GLASS STRENGTH AND FRACTURE TOUGHNESS BY A NON-BRITTLE ABRASION RESISTANT COATING

00: -

The present invention relates to the use of a coating for improving glass strength and fracture toughness comprising the hydrolytic polycondensation product of one or more alkoxysilane(s) with one or more metal oxide(s) and/or metal alkoxide(s) in the presence of water and a catalyst.



21: 2022/12725. 22: 2022/11/22. 43: 2023/05/25
51: G01R
71: DIGITAL GRID RESEARCH INSTITUTE, CHINA SOUTHERN POWER GRID., ELECTRIC POWER RESEARCH INSTITUTE OF GUANGXI POWER GRID CO., LTD
72: LI, Peng, TIAN, Bing, ZHOU, Ke, WANG, Zhiming, LUO, Bofeng, YIN, Xu, ZHANG, Jiaming, LIU, Zhong, WANG, Xiaoming, SUN, Hongdi, LV, Qiancheng, CHEN, Renze, LI, Licheng
33: CN 31: 202110656386.1 32: 2021-06-11
54: VOLTAGE MEASUREMENT APPARATUS, VOLTAGE MEASUREMENT METHOD AND STORAGE MEDIUM
00: -
A voltage measurement device comprises a probe module movably arranged around an alternating-current transmission line, and a measurement unit. A metal electrode is arranged on a surface of the probe module facing toward the alternating-current transmission line, electrically coupled with the alternating-current transmission line to form a coupling capacitor, and then forms an electrical circuit with an inductor element, a resistor element, and a reference signal source in the measurement unit. A processor controls the reference signal source to input reference voltage signals at different frequencies to the electrical circuit, determines a resonant frequency of the electrical circuit according to currents of the electrical circuit under the reference voltage signals at different frequencies, and determines a voltage of the alternating-current transmission line according to a first current component amplitude and the resonant frequency of the electrical circuit. A voltage measurement method and a storage medium are also disclosed.



21: 2022/12771. 22: 2022/11/23. 43: 2023/06/07
51: C10B
71: KLEAN INDUSTRIES INC.
72: Eckard PELZ, Martin LÖFFLER
33: DE 31: 10 2020 115 348.1 32: 2020-06-09
54: DEVICE AND METHOD FOR THE PYROLYSIS OF ORGANIC STARTING MATERIALS
00: -
The invention relates to a system for the pyrolysis of scrap material, in particular for the depolymerisation of shredded scrap tyre material, and for producing a starting material which can be further processed to give recovered carbon black. The system comprises at least one rotary tube reactor, a quenching unit and a combustor unit. The rotary tube reactor has a reactor drum which rotates about a longitudinal axis during operation and the interior of which has at least one heating zone, a reaction zone and a degassing zone. The combustor unit is designed to combust pyrolysis gas to give a heating gas and to generate a heating gas stream through the heating jacket chamber, and for this purpose is connected to the heating jacket housing via heating gas lines. The quenching unit is connected to the gas outlet of the rotary tube reactor and is designed to cool pyrolysis gasses produced in the reactor interior during operation. According to the invention, a plurality of heating gas outlet valves are distributed over the length of the heating jacket housing, which valves make it possible to influence the flow of the heating gas through the heating jacket chamber such that different amounts of heat can be supplied to each of the heating zone, the reaction zone and the degassing zone in the reactor interior. By means of this system, it is possible to achieve permanently stable (static) process conditions in continuous

pyrolysis operation, which conditions make it possible to generate a pyrolysis solid from, for example, shredded scrap tyre material, the starting quality of which fulfils all the requirements for further processing in a backend system for generating recovered carbon black in pearl form.

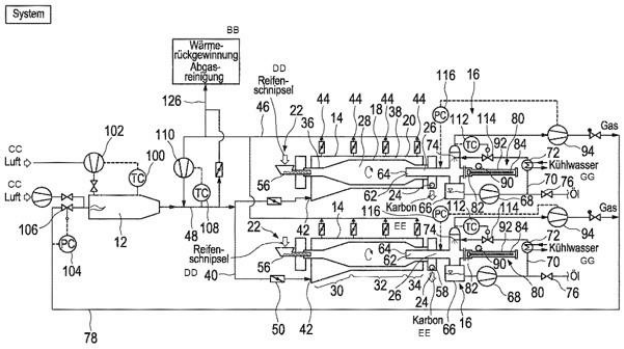


Fig. 1

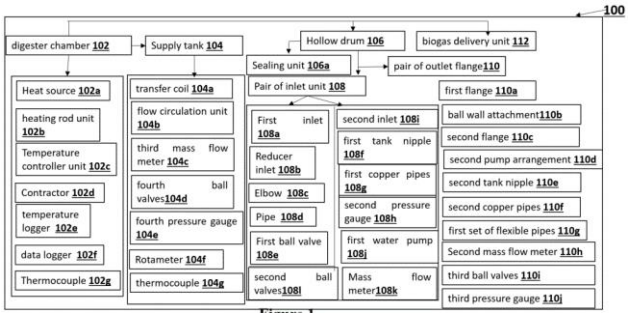
BB Heat recovery exhaust gas cleaning
CC Air
DD Tyre chips
EE Carbon
GG Cooling water

21: 2022/12895. 22: 2022/11/28. 43: 2023/01/30
51: C12M
71: SHIVASHEESH KAUSHIK, DR. SATYENDRA SINGH, SHAILESH RANJAN KUMAR, DR. LOKESH PANDEY, SHIVA GOYAL, SHRIYANSH GAIROLA, TANISHQ KATARIA, NITISH KUMAR, AMAN BARTHWAL, ANUJ PRASAD, ARUN SINGH, ASHISH NAYAL, ASHISH CHAMEL, KUSHAGRA MANI, JANAK RAJ JOSHI
72: Dr. Satyendra Singh, Shailesh Ranjan Kumar, Dr. Lokesh Pandey, Shivasheesh Kaushik, Shiva Goyal, Shriyansh Gairola, Tanishq Kataria, Nitish Kumar, Aman Barthwal, Anuj Prasad, Arun Singh, Ashish Nayal, Ashish Chamel, Kushagra Mani, Janak Raj Joshi

54: A MODIFIED BIOGAS SYSTEM

00: -

A modified biogas system (100), comprises of:a digester chamber (102) for producing biogas from a heat source (102a), comprises of a heating rod unit (102b), and a temperature controller unit(102c) for supplying constant heat at desired temperature sufficient to produce the biogas;a supply tank (104) for supplying a passage of hot fluid to the digester chamber (102);a hollow drum(106) comprises of a sealing unit (106a) with a seal gripper for preventing leaking of biogas from the chamber (102), wherein the sealing unit (106a) comprises of a pair of inlet unit (108) for allowing flow of slurry and the hot fluid separately inside the chamber (102), and a pair of outlet flange (110) for allowing flow of the slurry and the hot fluid; anda biogas delivery unit(112) for collecting the biogas produced.



21: 2022/12903. 22: 2022/11/28. 43: 2023/05/30
51: B41B; G09F; H04W
71: Gold Circle Proprietary Limited
72: Patrick Lawrence Loker

54: AN INTERACTIVE GAMING SYSTEM AND METHOD OF ADVERTISING THEREWITH

00: -

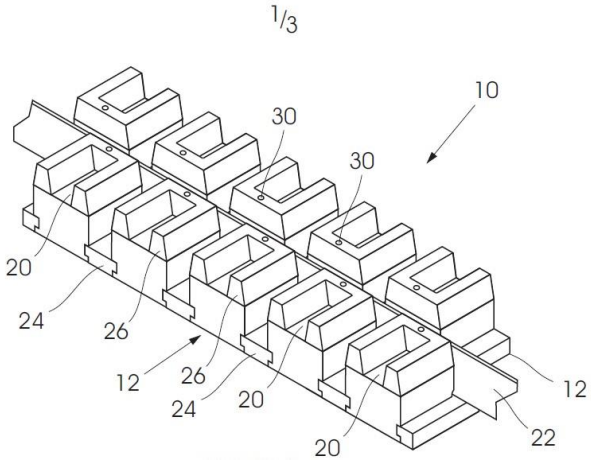
An interactive gaming system utilising a data management system having enabling hardware and software to affect the steps and processes which define an interactive card game, whereby participants wager on what card will be revealed by the system by following suitable prompts generated by the system, wherein the system calculates the value of dividends payable to participants based on the number of winning participants and amount in the wager pool for a particular round. Accordingly, dividends are not deter-mined by fixed-odds and may vary dependent on the number of participants and wager pool value. The interactive gaming system is used as a means of advertising, whereby the advertisements generated by the system are determined by a winning card drawn, where-in an advertisement displayed has a cognitive link to the winning card displayed. The participants thereby form an enhanced cognitive association between winning and the goods or services advertised.

21: 2022/12916. 22: 2022/11/28. 43: 2023/05/30
51: C25C
71: GREENWAY, Timothy Kelvynge
72: GREENWAY, Timothy Kelvynge, LOOCK, Johan Hendrik, DE VILLIERS, Lourens Francois, DYZEL, Dennis Thomas
33: ZA 31: PCT/IB2021/054510 32: 2020-06-23

54: ELECTROWINNING AND ELECTROREFINING ENVIRONMENT COMMUNICATOR

00: -

A means for improving recovery of metal compounds by metallurgical processes is disclosed. More particularly, an electrowinning and electrorefining monitoring system and a method of using an electrowinning and electrorefining environment communicator within said system is disclosed. The communicator comprising an insulating body, that defines a seat for seating an anode or cathode in an electrolytic cell; and, communication means for communicating with a controller to indicate that circumstances at, or in the vicinity of, the insulating body have triggered a set of predefined parameters associated with an electrolytic process environment variable.

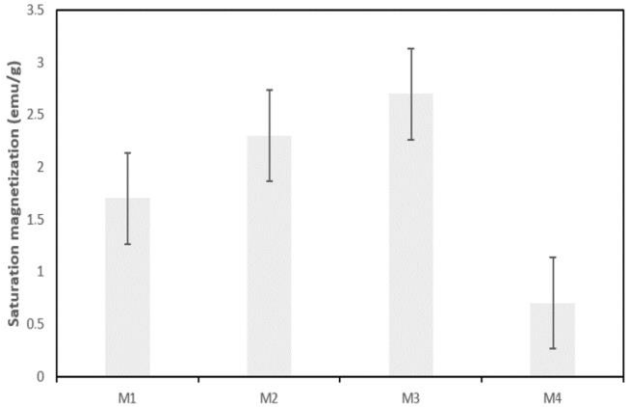


21: 2022/13139. 22: 2022/12/05. 43: 2023/02/08
51: C04B
71: Noida International University, R D Engineering College, University Of Perpetual Help System Dalta, Netaji Subhash University of Technology, IIMT College of Management, Prism Johnson Limited, Dr. Shilpi Singh, Dr. Parsanjeet Kumar, Dr. Pankaj Kumar Singh, Arnaldo S. De Guzman, Dr. Sadhana Gupta, Dr. Prerna Gaur, Yogesh Gupta, Shruti Singh, Sachin Singh, Subham Biswal
72: Dr. Shilpi Singh, Dr. Parsanjeet Kumar, Dr. Pankaj Kumar Singh, Arnaldo S. De Guzman, Dr. Sadhana Gupta, Dr. Prerna Gaur, Yogesh Gupta, Shruti Singh, Sachin Singh, Subham Biswal

54: CASTABLE AND CURABLE MAGNETIC CEMENT COMPOSITION AND METHOD FOR PREPARATION THEREOF

00: -

A castable and curable magnetic cement composition, comprising, i) magnetic or magnetizable particle in the range of- 32-96%, ii) cement particles in the range of- 0.0027-2 vm, iii) aluminosilicate particle in the range of- 32-46%; iv) a binding modifier in the range of; and v) a surface-active dispersing agent in the range of 0.1-4% by weight. The method for preparing the cement composition comprises the following steps, i) mixing the particles with dispersing agent to obtain a homogeneous mixture; and ii) blending the mixture with silica-bearing additive, followed by addition of potable water to obtain the cement composition



21: 2022/13203. 22: 2022/12/06. 43: 2023/04/26
51: G01N
71: Shanghai Academy of Agricultural Sciences
72: YANG, Haifeng, YAO, Chunxia, LIU, Haiyan, SI, Wenshuai, CHEN, Lei, JIN, Xiaofen

54: METHOD FOR DETECTING MALONDIALDEHYDE IN FOOD

00: -

The present invention provides a method for rapidly detecting the content of malondialdehyde (MDA) in food, which is a method for determination and analysis by means of a high-performance liquid chromatography (HPLC) fluorescence detector. The method can detect the content of the MDA in the food based on peak retention time and peak area by the obtained liquid chromatographic spectrum. The method achieves an accurate control of the content of the MDA in the food.

21: 2022/13224. 22: 2022/12/06. 43: 2023/04/26
51: G21C
71: JOINT-STOCK COMPANY "TVEL"
72: KARPYUK, Leonid Aleksandrovich, LYSIKOV, Aleksandr Vladimirovich, MIKHEEV, Evgeniy Nikolaevich, MISSORIN, Denis Sergeevich,

NOVIKOV, Vladimir Vladimirovich, SIVOV, Roman Borisovich, SHIPUNOV, Nikolay Ivanovich

54: METHOD FOR PRODUCING PELLETIZED FUEL FROM URANIUM-MOLYBDENUM POWDERS

00: -

The invention relates to the nuclear industry and can be used for producing fuel pellets from uranium-molybdenum metal powders enriched to 7% uranium 235 for nuclear reactor fuel elements. The pellets are sintered in an inert atmosphere of argon at a temperature ranging from 1100 degrees Celsius to 1155 degrees Celsius, and the initial powder is a uranium-molybdenum powder having a fraction size of 160 micrometers and a molybdenum content of from 9.0 to 10.5 wt%. The powder is pre-heated at a temperature of 500 degrees Celsius for 10-20 hours (in an atmosphere of argon) and is subsequently cold pressed into pellets in a die under a force of up to 950 MPa. In an alternative embodiment for producing uranium-molybdenum pellets with a binder (plasticizer), the step of sintering is preceded by heating the pellets in an atmosphere of argon at from 300 degrees Celsius to 450 degrees Celsius for 2-4 hours to remove the binder. The invention makes it possible to increase the uranium intensity of the fuel, reduce the amount of heat buildup in a reactor core, and lower the amount of energy released in the event of abnormalities in the operation of a nuclear reactor, thus providing increased reactor safety and resilience to accidents.

21: 2022/13557. 22: 2022/12/14. 43: 2023/05/10
51: A01N; A01P
71: OLMIX
72: DARIDON, Bruno, LEVERGE, Clément, AUDIER, Thierry, NYVALL-COLLEN, Pi
33: FR 31: 2006760 32: 2020-06-26

54: USE OF AN ORGANO-MINERAL COMPOSITION BY FOLIAR APPLICATION TO STIMULATE PLANT DEVELOPMENT IN THE PRESENCE OF AT LEAST ONE ABIOTIC STRESS OR BIOTIC STRESS

00: -

The invention relates to the use of an organo-mineral composition by foliar application to stimulate plant development in the presence of at least one abiotic stress, said composition comprising the following compounds: - algae extract 5 to 50% - soluble silica expressed as SiO2 0.5 to 2.5% - mineral nutrients 0 to 30% - trace elements 0 to 12% - organic acids 0 to 30%, the percentages being expressed as weight of dry matter of each of said compounds with respect to the total weight of dry matter of said organo-mineral composition.

21: 2022/13670. 22: 2022/12/19. 43: 2023/05/26
51: G06F
71: AWALE, Rohan Rajesh, WANKHADE, Anushka Anil, RAJUSKAR, Tejas Rajendra, SAKHARKAR, Asawari Kishor, MESHRAM, Pranav Kumar, TAMBE, Pushpa Sambhaji
72: AWALE, Rohan Rajesh, WANKHADE, Anushka Anil, RAJUSKAR, Tejas Rajendra, SAKHARKAR, Asawari Kishor, MESHRAM, Pranav Kumar, TAMBE, Pushpa Sambhaji

54: DATA LOGGER FOR SMART INDUSTRIES

00: -

Data logger is designed to seamlessly integrate with the IoT and analytical processing systems. Data Logger Module is for storage of analog and digital data at remote place. It consists of 12 Analog signal interface or 384 digital input data on RS485. Amazon cloud (AWS) is used to receiving live and historical data. This data shown on user friendly graphical display on remote PC. Data logger logs and uploads live data via HTTP over WiFi network. User can access data on any web browser through admin username and password. Data Logger is collecting the analog/digital sensors data and transmitted securely, then it stored on Amazon cloud-server or a customer's on-premises server. Data Loggers are remotely configurable, and data can be visualized and managed via a private web-based IoT Platform

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21: 2022/13753. 22: 2022/12/20. 43: 2023/05/31
51: A23K; A61K; A61P
71: ANHUI SCIENCE AND TECHNOLOGY UNIVERSITY
72: LI, Lei, LIU, Chang, LI, Shenghe, LI, Jing, WANG, Zhiwei, TUMEN, Baya'er, SUN, Jie, NING, Yan, WANG, Jin, ZHANG, Yu, ZHANG, Mengge

54: TRADITIONAL CHINESE MEDICINE COMPOSITION FOR TREATING/PREVENTING MYCOTOXICOSIS AS WELL AS PREPARATION METHOD AND APPLICATION THEREOF

00: -

The present invention relates to the technical field of traditional Chinese veterinary medicines, and in particular to a traditional Chinese medicine

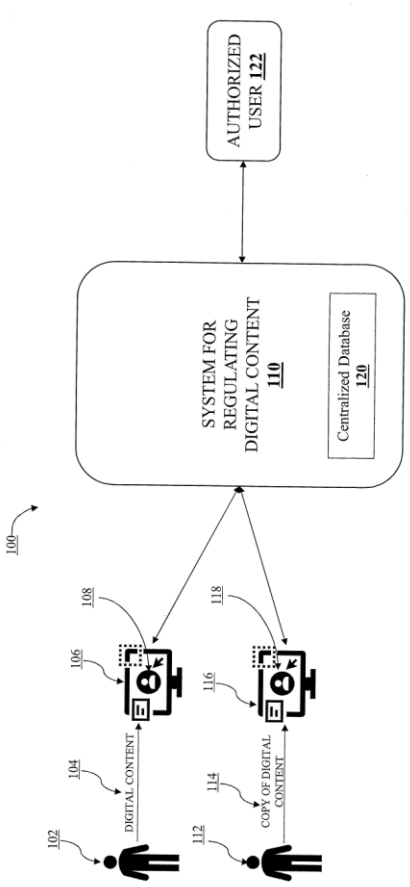
composition for treating/preventing mycotoxicosis as well as a preparation method and an application thereof. The traditional Chinese medicine composition is prepared from the following raw materials in parts by weight: 30-36 parts of Flos lonicerae, 24-31 parts of Radix bupleuri, 15-21 parts of Radix scutellariae, 8-14 parts of Herba artemisiae scopariae and 8-14 parts of Radix curcumae. The traditional Chinese medicine composition of the present invention can enhance the immunologic function of the body and improve the growth state while curing the disease; the traditional Chinese medicine composition can further effectively treat various symptoms induced by mycotoxicosis, enhance the detoxification ability of livers, promote the toxin excretion of kidneys, prevent secondary infection and improve the disease resistance of the body.

21: 2022/13943. 22: 2022/12/22. 43: 2023/05/10
51: A23B; A23L
71: PURAC BIOCHEM B.V.
72: KARLEEN, Saffiera, WIJMAN, Johanna Gerarda Elisabeth, KUMAR, Saurabh, HILHORST, Gerrit Anthon Rene, MCCOY, Garrett Douglas
33: US 31: PCT/US2020/039037 32: 2020-06-23
54: COMPOSITION FOR PRESERVING AND/OR IMPROVING THE QUALITY OF MEAT PRODUCTS
00: -
The present invention provides a composition for preserving or improving the quality of meat products and meat analogues, said composition comprising on a dry matter basis: (a) between 30 and 80% (w/w) acid equivalent of lactate and acetate in a weight ratio acetic acid equivalent to lactic acid equivalent of between 0.8/1 and 2.6/1; (b) between 0.04 and 2.5% (w/w) of anthocyanidin; wherein lactate and acetate are contained in the composition in a molar ratio of lactic acid equivalent: acetic acid equivalent of 0.5:1 to 1.7:1. The invention also relates to a method for the preparation of the aforementioned composition, the method comprising - providing a vinegar product containing on a dry weight basis at least 30% (w/w) of acetic acid equivalent, wherein the acetate is selected from sodium acetate, potassium acetate, calcium acetate, acetic acid and combinations thereof; - providing a lactic acid fermentation product containing on a dry weight basis at least 30 % (w/w) of lactic acid equivalent, wherein the lactate is selected from sodium lactate, potassium lactate, calcium lactate, lactic acid and combinations thereof; - providing a source of anthocyanidin containing on a dry weight basis at least 0.1 % (w/w) of anthocyanidin; - mixing the vinegar product, the lactic acid fermentation product and the source of anthocyanidin. The invention also relates to a process of preparing meat products or meat analogues, said process comprising adding the composition according to the invention to processed meat in an amount of between 0.5 and 15% (w/w) dry matter.

21: 2023/00592. 22: 2023/01/13. 43: 2023/05/12
51: A01K
71: Institute of Animal Husbandry and Veterinary, Jiangxi Academy of Agricultural Science
72: Huo Junhong, Zhan Jinshun, Wu Yanping, Wang Haibo, Xu Xiang, Ding Chao, Ji Jiequan, Huang Liewu
54: METHOD FOR ALLOCATING AND TRANSPORTING BREEDING SHEEP
00: -
The invention discloses a method for allocating and transporting breeding sheep, belonging to the technical field of sheep breeding. The method includes a breeding sheep selection stage, a transportation stage and an adaptive feeding stage, aiming at the breeding sheep's morbidity and even death caused by stress in the introduction process, and develops a breeding sheep introduction and transportation method which can effectively alleviate the breeding sheep introduction stress and reduce the morbidity and mortality of introduced breeding sheep. By using the method, the stress of breeding sheep introduction can be effectively relieved during breeding sheep transportation, and the survival rate of introduced breeding sheep can reach more than 90%, and the disease incidence rate is less than 20%.

21: 2023/01310. 22: 2023/02/01. 43: 2023/04/11
51: G06F
71: Comviva Technologies Limited
72: JAIN, Manish, GOYAL, Gaurav
33: IN 31: 202211005885 32: 2022-02-03
54: SYSTEM AND METHOD FOR DETERMINING OWNERSHIP, AND REGULATING DIGITAL CONTENT THEREOF
00: -

The present subject matter refers to a system and method for determining an ownership and regulating a digital content in a social networking platform. The present subject matter includes receiving the digital content and a metadata associated with the digital content published by a first user at the social networking platform. Further, the digital content and the metadata is stored in a centralized database. The present subject matter includes generating an ownership chain of the digital content. Further, a copy of the digital content and the metadata associated with the copy of the digital content published by a second user at the social networking platform received and determined if the copy of the digital content is similar to the digital content already stored in the centralized database. The present subject matter provides determining the ownership of the digital content based on the ownership chain and regulating the digital content on the social networking platform, based on addition of the blocking tag.



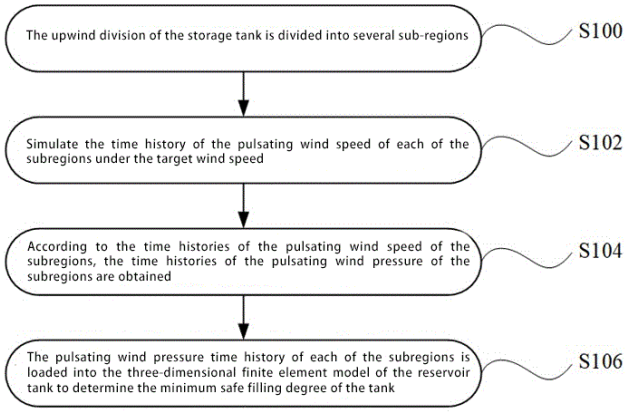
21: 2023/01702. 22: 2023/02/10. 43: 2023/06/02
51: G06F
71: SHENZHEN URBAN PUBLIC SAFETY AND TECHNOLOGY INSTITUTE
72: Dayong Xu, Qingrui Yue, Huichun Jiang, Gansu Shen, Yu Qin, Fang Dong, ShuFeng Xi, Zhongqi Shi, Jun Ling
33: CN 31: 202210854333.5 32: 2022-07-20

54: THE METHOD AND DEVICE OF FILLING DEGREE EVALUATION FOR VERTICAL OIL STORAGE TANK UNDER WIND PRESSURE

00: -

This application discloses a filling degree evaluation method for a vertical oil storage tank under wind pressure. It includes: the upwind division of the storage tank is divided into several sub-regions; To simulate the time history of the pulsating wind speed of each of the multiple subregions under the target wind speed; According to the time history of the pulsating wind speed of each of the subregions, the time history of the pulsating wind pressure of each of the subregions is obtained. The pulsating wind pressure time history of each of the subregions is loaded into the three-dimensional finite element

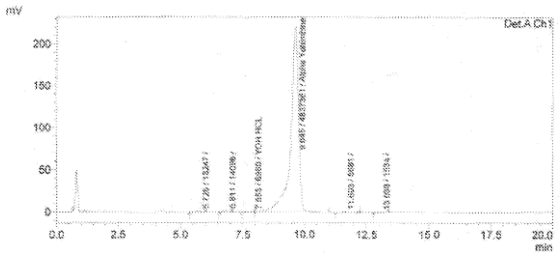
model of the oil storage tank to determine the minimum safe filling degree of the oil storage tank; Wherein, the minimum safe filling degree refers to the minimum liquid level value of the oil storage tank to ensure that the maximum damage degree in the windward area is lower than the preset standard under the target wind speed.



21: 2023/01905. 22: 2023/02/16. 43: 2023/05/09
51: A01N; A61K; D04H
71: ROHIT KUMAR, DR. RAMRATAN, DR. ANUPAM KUMAR
72: ROHIT KUMAR, DR. RAMRATAN, DR. ANUPAM KUMAR
33: IN 31: 202211009120 32: 2022-02-21
54: NON-WOVEN SHEET FROM NERIUM OLEANDER STEM FIBERS AND METHOD OF MANUFACTURING
00: -
The present invention discloses non-woven sheets from Nerium oleander stem fiber. The present invention comprises of the steps of procurement of Nerium oleander stem fiber, Web formation i.e. carding of the fiber to separate small tufts to individual fibers, Web bonding/consolidation of fiber web by needle punching technique. The prepared non-woven sheets possesses excellent absorbance, good filterability and permeability. The non-woven sheet of present invention is of 5 to 5.5 mm thickness and 960 g tensile strength. Further the non-woven sheet of present invention possesses higher water absorbency i.e., 14.6 to 22.7% and higher elongation (%) i.e, 10 to 11.8%



21: 2023/01926. 22: 2023/02/16. 43: 2023/05/09
51: A61K; C07D
71: KUMAR GOEL, Pawan
72: BALI, Manoj, KUMAR CHOUHAN, Ashok, TIWARI, Dr Kiran
33: IN 31: 202111012485 32: 2021-03-23
54: IMPROVED INDUSTRIAL PROCESS FOR EXTRACTION OF ALPHA YOHIMBINE FROM RAUWOLFIA SPECIES AND THE EXTRACT THEREOF
00: -
The present invention discloses an improved process for the extraction of alpha yohimbine from leaves of Rauwolfia species, preferably Rauwolfia canescens/Rauwolfia tetraphylla. Process involves use of non-polar alcoholic solvent e.g. methanol for precipitating the compound of interest, repetitive washing with halogenated solvents and washing with hexane or petroleum ether to obtain high yields of high purity extract. Use of organic acids such as tartaric acid, acetic acid and organic solvent ethyl acetate etc. is eliminated making the process less time consuming and economical. The yield of the final product is 50-60% higher i.e. 600-670 mg/100g dry leaves, than prior art process. Further, the extract obtained by the process of present invention contains yohimbine hydrochloride as a marker compound in analytically detectable amounts of more than 0.1% of the extract.



Detector A Ch1 229nm

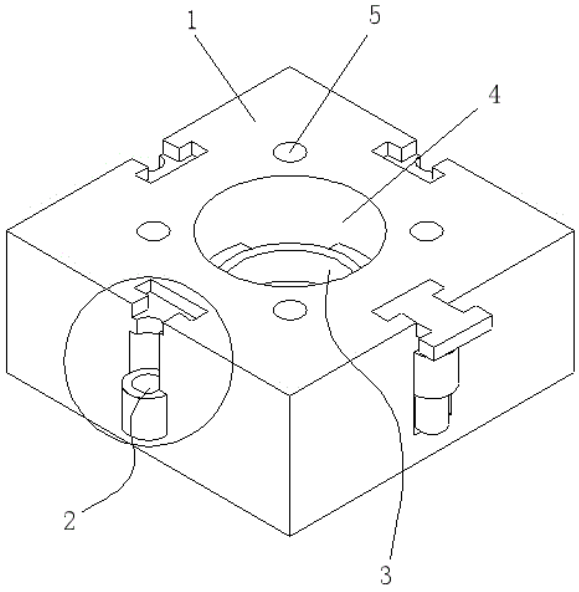
Peak#	Name	Ret. Time	Area	Area %	Relative Retention Time
1		5.725	13347	0.272	0.594
2		6.811	14096	0.289	0.706
3	YOH HCL	7.855	6969	0.143	0.814
4	Alpha Yohimbine	9.645	4827361	99.149	1.000
5		11.603	5681	0.116	1.203
6		13.038	1534	0.031	1.352
Total			4878878	100.000	

21: 2023/01970. 22: 2023/02/17. 43: 2023/05/09
51: A01G
71: Nanchang Institute of Technology
72: Lichao Zhang, Xiao Xiao, Peilin Ge, Xuhua Huang, Jinwen Xia, Hong Cheng, Minghao Mo, Yuejun Song, Shuanglong Li, Feifei He, Qianya Yang

54: A NEW TYPE OF ECOLOGICAL BRICK

00: -

The invention discloses a new ecological brick belonging to the technical field of environmental protection. The invention comprises an ecological brick body, wherein the ecological brick body is provided with a hole inside, the hole is embedded with an ecological component, and the side of the ecological brick body is provided with a connecting component. By setting a connecting component, the connecting components are staggered up and down to insert each other into the corresponding connecting groove. After the two connecting components are aligned, the fixing component can be inserted into the through hole of the connecting component, and the fixing component can complete the connection limit of the two ecological brick bodies. The top of the fixing component and the top reinforcement groove of the side of the ecological brick can make the splicing between the ecological brick and each other more firm, and their use effect is better. By setting ecological components, the bowl-like structure of the base can store water properly for the green plants when it rains, and the absorbent cotton layer can better lock water to ensure humidity and provide a good growing environment for the green plants, so as to make the ecological brick more beautiful.



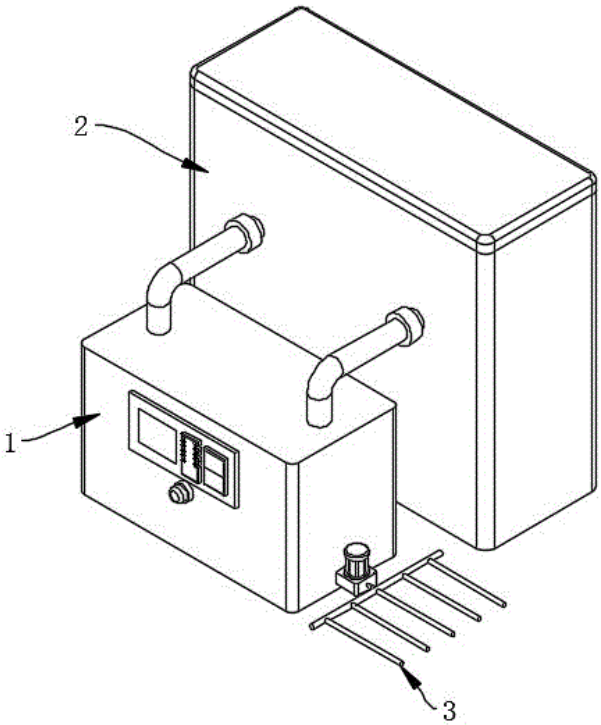
21: 2023/01977. 22: 2023/02/17. 43: 2023/06/01
51: A01C
71: GUANGXI NORMAL UNIVERSITY FOR NATIONALITIES
72: Baohai Yang, Yaxun Shi, Jiarong Kang, Quanhui Ren, Donghong Fan, Ruili Li
33: CN 31: 202211680206.4 32: 2022-12-27

54: AN AGRICULTURAL FERTILIZER EQUIPMENT BASED ON THE INTERNET OF THINGS

00: -

The invention relates to the technical field of agricultural planting, in particular to an agricultural fertilization equipment based on the Internet of Things. The invention includes a fertilizer machine, a storage box and a fertilization pipeline. The fertilizer machine is arranged in the front side of the storage box, and the two sides of the storage box are respectively provided with water and fertilizer chamber and water storage chamber. fertilizer adding chamber and water adding chamber are provided on both sides of the inside of the fertilizer machine, and a discharge pipe is installed between the water and fertilizer adding chamber. A drainage pipe is arranged between the water storage chamber and the water purification adding chamber, and the fertilizer machine is provided with a batching component. The ingredients include fertilizer distribution roller, water purification distribution roller, motor, brake gear and agitator. The fertilizer distribution roller and water purification distribution

roller are respectively installed in the fertilizer adding chamber and water purification adding chamber through a rotating shaft. A connecting groove is provided between the fertilizer adding chamber and the water purifying adding chamber. The invention can realize automatic quantitative fertilizer preparation through the batching component, and can accurately control the proportion of fertilizer and water use, so as to achieve the most accurate fertilizer application amount.

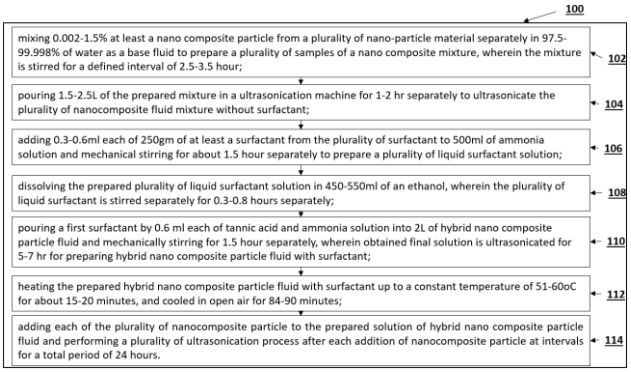


21: 2023/02067. 22: 2023/02/20. 43: 2023/04/26
51: C08J
71: Uttarakhand Science Education & Research Centre, SHIVALIK COLLEGE OF ENGINEERING DEHRADUN, Shivasheesh Kaushik, Nikhil Kanojia, Shailesh Ranjan Kumar, Anil Kumar Chhotu, Ashutosh Kumar, Dr. Lokesh Pandey
72: Shivasheesh Kaushik, Nikhil Kanojia, Dr. Satyendra Singh, Dr. Prahlad Singh, Dr. Saba Sabir, Shailesh Ranjan Kumar, Anil Kumar Chhotu, Ashutosh Kumar, Dr. Lokesh Pandey

54: A COMPOSITION AND A METHOD FOR SYNTHESIZING HYBRID NANO COMPOSITE PARTICLE FLUID

00: -

A composition and a method (100) for synthesizing hybrid nano composite particle fluid, comprises of: mixing 0.002-1.5% each of a plurality of nano-particle material separately in 97.5-99.998% of water to prepare a mixture, wherein the mixture is stirred for a defined interval of 2.5-3.5 hour; ultrasonicating 1.5-2.5L of the prepared mixture in a ultrasonication machine for 1-2 hr separately to prepare a plurality of nanocomposite fluid mixture; adding 0.3-0.6ml each of 250gm of a plurality of surfactant separately and mechanical stirring for about 1.5 hour separately to prepare a plurality of liquid surfactant solution; pouring a first surfactant by 0.6 ml each of tannic acid and ammonia solution into 2L of hybrid nano composite particle fluid and mechanically stirring for 1.5 hour separately; and heating the prepared hybrid nano composite particle fluid up to constant temperature of 51-60oC for about 15-20 minutes, and cooled in open air for 84-90 minutes.



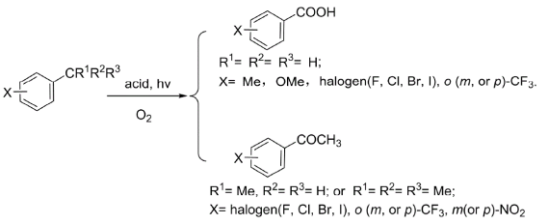
21: 2023/02089. 22: 2023/02/20. 43: 2023/06/02
51: C07C
71: NANJING TECH UNIVERSITY
72: LI, Yufeng, ZHU, Hongjun, MA, Hongfei, BU, Hongzhong, WU, Jieqing, GU, Jiefan, CHEN, Jiwei, ZHANG, Haoyue, WANG, Chen
33: CN 31: 2021112736482 32: 2021-10-29

54: ACID-CATALYZED PHOTOCATALYZED OXIDATION REACTION OF BENZYLIC C-H BONDS OF AROMATIC COMPOUND

00: -

Provided is a photo-oxidation reaction of benzylic C-H bonds of an aromatic compound under the catalysis of an acid catalyst. The method aims to synthesize aromatic acids and acetophenones. The acid catalyst is one of Bronsted acids, including one or a mixture of two or more selected from the group consisting of hydrochloric acid, phosphoric acid, sulfuric acid, p-toluenesulfonic acid, methanesulfonic acid, trifluoromethanesulfonic acid, trifluoroacetic acid, and potassium hydrogen sulfate, as well as N-propylsulfonate pyridinium hydrogensulfate, N-

butylsulfonate pyridinium hydrogensulfate, N-propylsulfonate pyridinium trifluoromethanesulfonate, N-butylsulfonate pyridinium trifluoromethanesulfonate, N-propylsulfonate pyridinium tetrafluoroborate, and N-butylsulfonate pyridinium tetrafluoroborate. The oxidation reaction is conducted under mild conditions (normal temperature and pressure) using air or oxygen as the oxidant in the presence of recyclable catalyst and solvent.

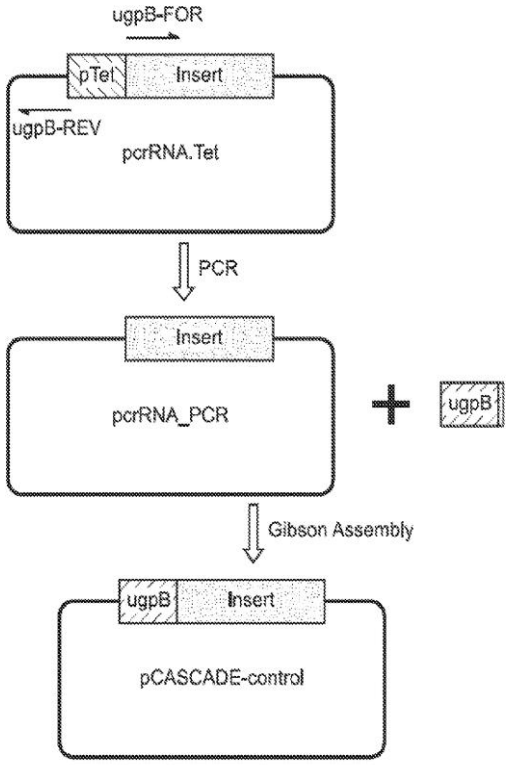


21: 2023/02090. 22: 2023/02/20. 43: 2023/04/18
51: C12N
71: DUKE UNIVERSITY
72: LYNCH, Michael David, LI, Shaui
33: US 31: 63/056,031 32: 2020-07-24

54: METHODS AND COMPOSITIONS FOR THE PRODUCTION OF ACETYL-COA DERIVED PRODUCTS

00: -

A genetically engineered microbial strains and related bioprocesses for the production of products from acetyl-CoA. Specifically, the use of dynamically controlled synthetic metabolic valves to reduce the activity of certain enzymes, leads to increased product production in a two-stage process.



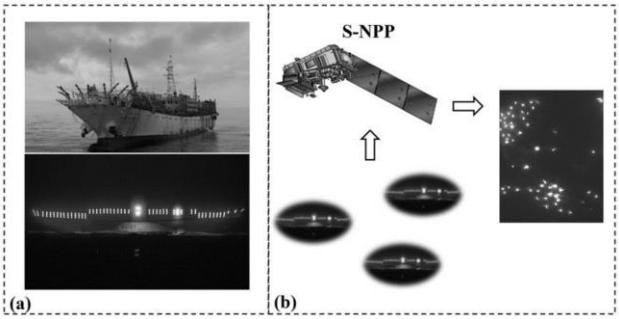
21: 2023/02182. 22: 2023/02/22. 43: 2023/05/22
51: G06K
71: Ocean University of China
72: LIU, Yang, TIAN, Hao, ZHU, Zhengguang, LI, Jianchao, TIAN, Yongjun

54: METHOD OF EXTRACTING OPERATION STATUSES OF PACIFIC SAURY FISHING SHIPS ON NORTHWEST PACIFIC OCEAN USING REMOTE SENSING NIGHT LIGHT DATA

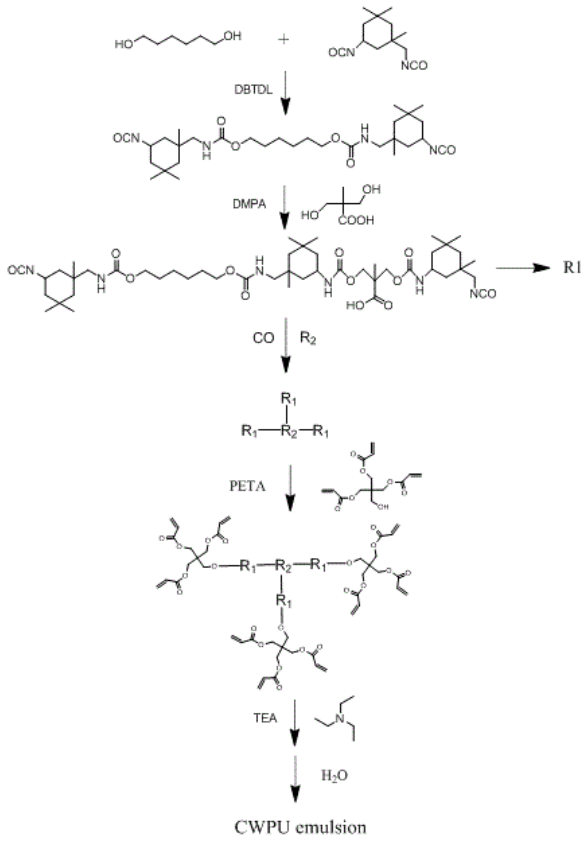
00: -

The present invention provides an identification and extraction method applied to Pacific Saury fishing ships and operation statuses thereof and belongs to the field of remote sensing technology for marine fisheries. By positioning the Pacific Saury fishing ships in visible infrared imaging radiometer suite day-night band (VIIRS DNB) data by means of automatic identification system (AIS) data, determining the operation statuses of the fishing ships by means of light radiation values, identifying and extracting the Pacific Saury fishing ships in the VIIRS DNB data by means of data preprocessing, pixel value mutation point detection, light radiation region target locking and other methods, the present invention may provide real-time effective data for

understanding the quantity of the Pacific Saury fishing ships and changes of fishing grounds on high seas of the northwest Pacific Ocean.

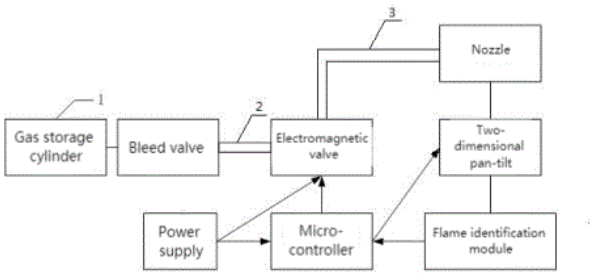


21: 2023/02183. 22: 2023/02/22. 43: 2023/05/22
51: C09D
71: Taiyuan University of Technology, Shanxi-Zheda Institute of Advanced Materials and Chemical Engineering
72: Heng ZHANG, Yixin YAN, Wenwen YU, Lan JIA, Lin CHEN
33: CN 31: 202211235735.3 32: 2022-10-10
54: A METHOD FOR THE PREPARATION OF WATER-BASED POLYURETHANE WATER-RESISTANT COATINGS
00: -
The present invention discloses a method for the preparation of a waterborne polyurethane water-resistant coating, which belongs to the technical field of anticorrosive coating preparation and solves the problem of insufficient water resistance in the anticorrosive performance of existing waterborne polyurethane coatings, the specific technical solutions are: including the preparation of waterborne coatings and the preparation of anticorrosive coatings in two steps, this coating is based on waterborne polyurethane as the main matrix, the first step includes the preparation of the prepolymer of the emulsion and the waterborne emulsion. The second step is the preparation of the anticorrosive coating. During the preparation of the emulsion, the chain molecule structure is modified by adding a multifunctional compound to cross-link the chain molecule structure, and the chain polyurethane is capped by a capping agent with a double bonding group. The raw materials are easy to obtain, the operating process is easy to grasp and the product performance is excellent, it can be used in scenarios such as waterproofing and corrosion resistance of wood products and metals.

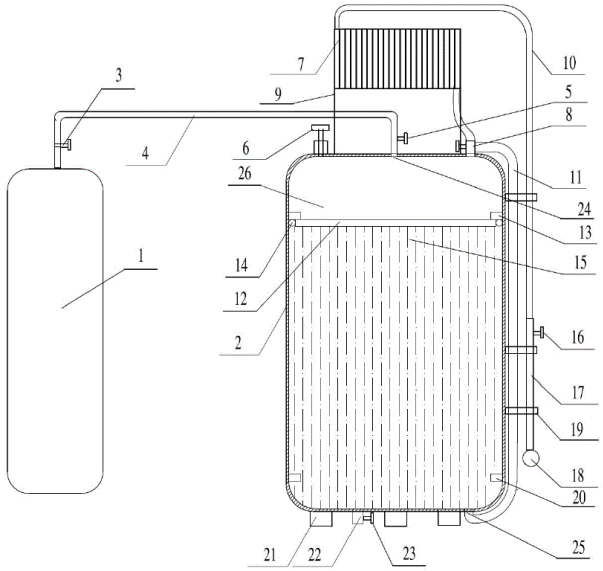


21: 2023/02184. 22: 2023/02/22. 43: 2023/05/19
51: A62C
71: Hefei University of Technology
72: Changjian WANG, Shenlin YANG, Quan LI
54: AN AUTOMATIC GAS FIRE EXTINGUISHING DEVICE AND ITS APPLICATION
00: -
This invention discloses an automatic gas fire extinguishing device and its application, including a power supply, a gas storage cylinder, a bleed valve, an electromagnetic valve, a nozzle, a flame identification module, and a microcontroller. The output end of the gas storage cylinder is connected to the input end of the bleed valve. The output end of the bleed valve is connected to the electromagnetic valve through the first gas pipeline, and the other end of the electromagnetic valve is connected to the nozzle through the second gas pipeline. The nozzle and the flame identification module are installed on the two-dimensional pan-tilt. The invention adopts an automatic gas fire extinguishing device with the above structure, which has the advantages of simple structure, small volume, lightweight and strong portability, and it is easy to be installed on miniature

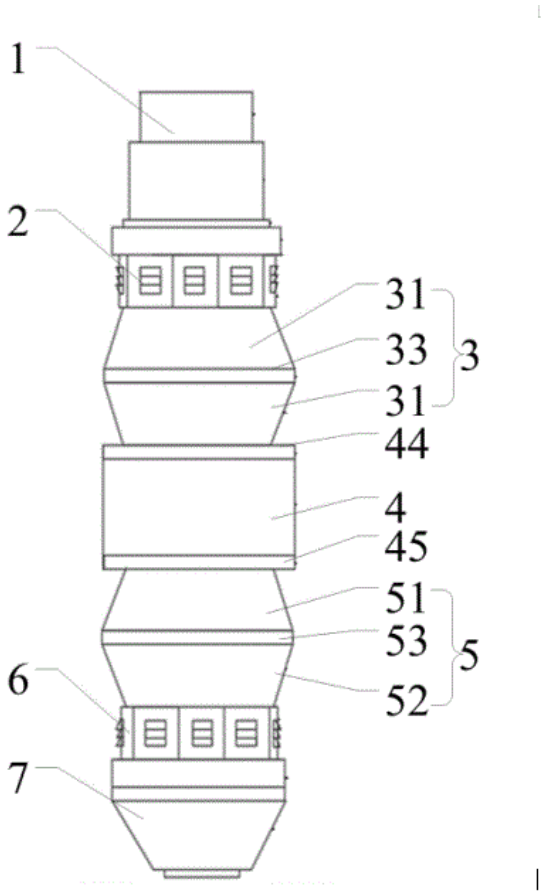
firefighting robots, firefighting vehicles, and factory workshop patrol robots in the fire field; the gas storage cylinder is designed with a hollow sphere to ensure the maximum gas load and inflation pressure while minimizing the weight.



21: 2023/02185. 22: 2023/02/22. 43: 2023/05/19
51: A62C
71: Hefei University of Technology
72: Changjian WANG
54: A HIGH-PRESSURE DRIVEN WATER MIST FIRE EXTINGUISHING EQUIPMENT
00: -
The invention discloses a high-pressure driven water mist fire extinguishing equipment, which is characterized in that: it includes a high-pressure gas cylinder, a storage tank, a nozzle, a canister hose, and a hose. The top of the storage tank is equipped with a gas valve, a safety valve, a high-pressure gas inlet, a three-way valve, and a reel support. The inside of the storage tank is equipped with an upper limit block, a piston, a sealing ring, and a lower limit block. The top of the storage tank is equipped with a reel. The hose is coiled on the reel, and one end of the hose is connected to the upper port of the three-way valve of the storage tank, while the other end is connected to the nozzle through the nozzle handle with a valve; The outer circle of the piston is equipped with a sealing ring. The piston and the sealing ring move up and down in the tank. The upper lower limit blocks realize the limit of up and down movement. The piston divides the tank inner cavity into two parts: the upper part is high-pressure gas and the lower part is water. The fire extinguishing equipment of the invention has compact structure and is convenient for rapid movement in the space capsule. The fire extinguishing equipment is clean and efficient, which is used to put out early fires or larger fires in time.



21: 2023/02186. 22: 2023/02/22. 43: 2023/05/19
51: E21B
71: Taiyuan University of Science and Technology
72: Baosheng LIU, Wentao LIU, Shuo YU, Yuezhong ZHANG
33: CN 31: 2022108029939 32: 2022-07-07
54: A BIODEGRADABLE BI-DIRECTIONAL CAVA ABUTMENT BRIDGE PLUG
00: -
The first bi-directional clamping table and the upper clamping table, the second bi-directional clamping table and the lower clamping table form a clamping assembly in the process of axial pressure transmission of the bridge plug; the first bi-directional clamping table and the intermediate, the intermediate and the second bi-directional clamping table fit together in the process of axial pressure transmission of the bridge plug to form the blocking structure of the bridge plug. The above-mentioned structure of a biodegradable bi-directional cavity press bridge plug solves the technical problems of unstable blocking, residual particles after dissolution of the dissolvable bridge plug and the cost of the bridge plug in the prior art.

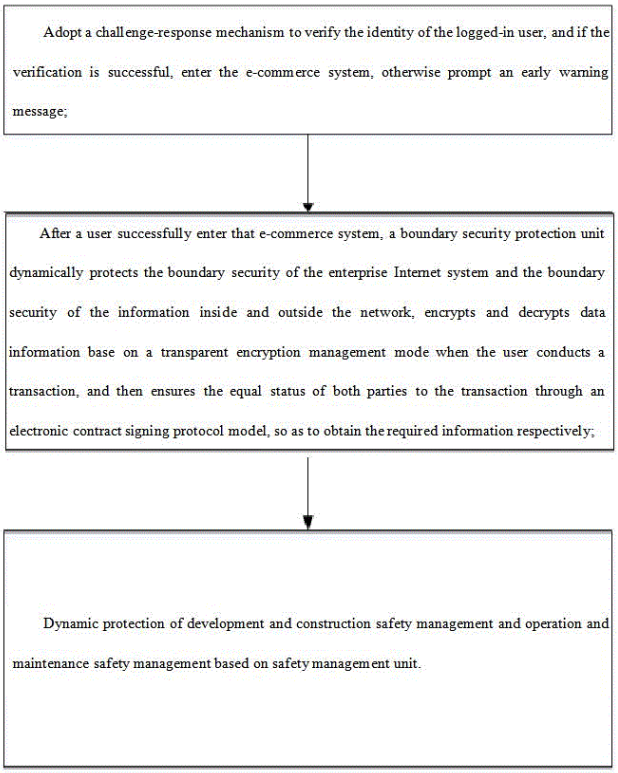


21: 2023/02188. 22: 2023/02/22. 43: 2023/05/19
51: G06Q
71: Henan University of Urban Construction
72: NI Likun, WANG Binggang, ZHENG Meng, LONG Dan, LAN Na, WANG Yadi, CHENG Wenyue, WANG Ziting, KAN Qianxi

54: METHOD OF E-COMMERCE SECURITY RISK MANAGEMENT

00: -

The invention provides an e-commerce security risk management method, which comprises the following steps: adopting a challenge-response mechanism to verify the identity of a logged-in user, if the verification is successful, entering an e-commerce system, otherwise prompting early warning information; Aft a user successfully enter that e-commerce system, a boundary security protection unit dynamically protects the boundary security of the enterprise Internet system and the boundary security of the information inside and outside the network, encrypts and decrypts data information base on a transparent encryption management mode when the user conducts a transaction, and then ensures the equal status of both parties to the transaction through an electronic contract signing protocol model, so as to obtain the required information respectively; Dynamic protection of development and construction safety management and operation and maintenance safety management based on safety management unit. The invention improves the security of e-commerce operation with multiple security protection measures, and realizes the dynamic security protection of e-commerce system.



21: 2023/02189. 22: 2023/02/22. 43: 2023/05/19
51: C12N
71: AGRICULTURAL ENVIRONMENT AND RESOURCES INSTITUTE, YAAS
72: YANG Jida, ZHANG Qing, ZHU Hongye, FU Chengxiu, YANG Peiwen

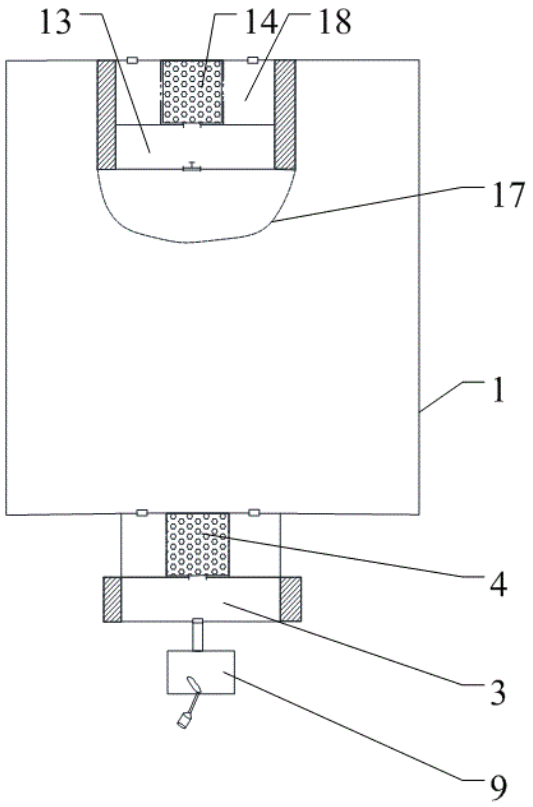
54: MICROBIAL AGENT FOR DECOMPOSING FRUIT AND VEGETABLE WASTES, APPLICATION METHOD THEREOF AND PREPARED ORGANIC MATRIX

00: -

The invention provides a decomposing microbial inoculum for fruit and vegetable wastes, a using method thereof and an organic matrix prepared by the decomposing microbial inoculum, which is made

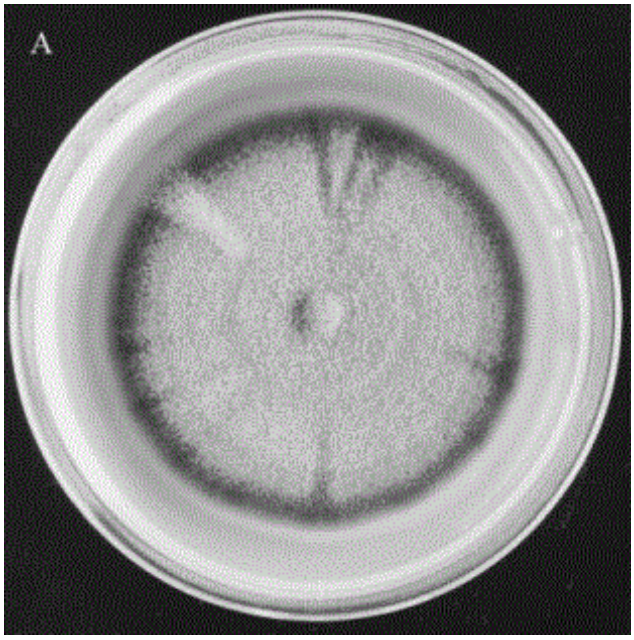
of the following raw materials in percentage by weight: 10-15 percent of Clostridium cellulolyticum solid microbial inoculum, 8-12 percent of Geotrichum candidum solid microbial inoculum, 5-10 percent of Bacillus natto solid microbial inoculum, 3-6 percent of Penicillium oxalate solid microbial inoculum, 2-5 percent of Bacillus mucilaginosus solid microbial inoculum, 2-5 percent of Candida utilis solid microbial inoculum and the balance of auxiliary materials. The application method of the decomposed microbial inoculum comprises the following steps: 1, crushing vegetable waste, then adding straw crushing material and rapeseed cake powder, and adjusting the carbon-nitrogen ratio and water content; Adding decomposed microbial inoculum, and stirring; 2, fermenting to obtain fermented material; the organic matrix is prepared by the following methods: uniformly mixing fermentation materials with peat soil, decomposed cow dung, expanded perlite powder and biogas residue; the decompose microbial inoculum can rapidly decompose vegetable wastes, has short fermentation period and high degradation rate, and that prepare organic substrate can effectively improve the yield and quality of crops.

21: 2023/02190. 22: 2023/02/22. 43: 2023/05/19
51: C02F
71: Gaoyou City Sunshine Specialized Aquatic Cooperative
72: Daxi DAI, Nan XU
54: A KIND OF INLET AND OUTLET WATER TREATMENT DEVICE FOR POND CULTURE
00: -
This patent discloses an inlet and outlet water treatment device for pond breeding, including a breeding pond, an inlet water treatment device and a drainage treatment device. The inlet water treatment device includes a water injection pond and a first filter pond, and the bottom of the water injection pond is provided with a water inlet and a pumping port. The pumping mouth is connected to the water injection pipe. The other end of the water injection pipe is connected to the water collection pool, and the water collection pool is connected to the water supply pump pipe. The end of the water supply pump pipe connected to the catch basin is provided with a net bag, and the other end of the water supply pump pipe is connected with a net cover. The drainage treatment device includes a drainage basin and a second filter basin. The bottom of the drainage pond is provided with a drainage gate and a drainage outlet, and an anti-escape net is connected to the outside of the drainage pond. This patent adopts the above structure of an inlet and outlet water treatment device for pond breeding, the inlet water treatment device reduces the pollution of the water body of the outer river to the water body of the breeding pond by 3 times filtering treatment; the drainage treatment device reduces the pollution of the water body of the breeding pond to the outer river water body by the setting of the filtering device.



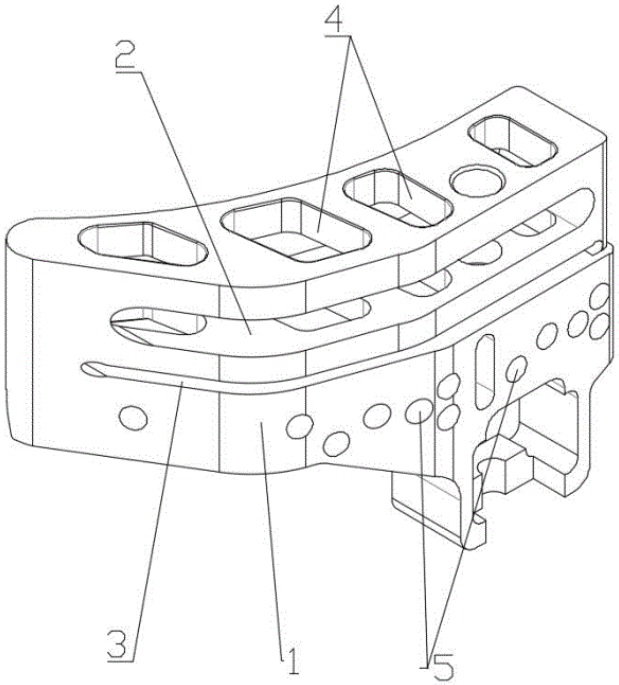
21: 2023/02191. 22: 2023/02/22. 43: 2023/05/22
51: C12N
71: The Citrus Research Institute of Zhejiang Province
72: Du DanChao, Lu Lianming, Pu ZhanXu, Liu Shunming, Huang Zhendong
54: BACTERIAL STRAIN OF CLADOSPORIUM MINUTUM FOR CONTROLLING CITRUS PESTS SUCH AS PANONYCHUS CITRI
00: -
The present invention provides a bacterial strain of Cladosporium minutum for controlling citrus pests

such as panonychus citri. The bacterial strain of Cladosporium minutum for controlling citrus pests such as panonychus citri is bacterial strain HGYC11, and a preservation number of the bacterial strain is CGMCC No.40264. According to the present invention, the bacterial strain HGYC11 has strong pathogenicity to panonychus citri and diaphorina citri, an analysis of biological characteristics shows that the bacterial strain has excellent characteristics of fast growth speed, a large spore yield, a high spore germination rate, etc., the panonychus citri treated by the conidial suspension having a concentration of 1.0×108 spores/mL of the Cladosporium minutum HGYC11 has corrected mortality rates on the 2nd d, 4th d and 6th d of 18.13 percent, 55 percent and 68.33 percent, the diaphorina citri has the corrected mortality rates on the 2nd d, 4th d and 6th d of 36.9 percent, 69.44 percent and 75.2 percent, and the bacterial strain HGYC11 provided by the present invention has a good control effect on the panonychus citri and diaphorina citri.



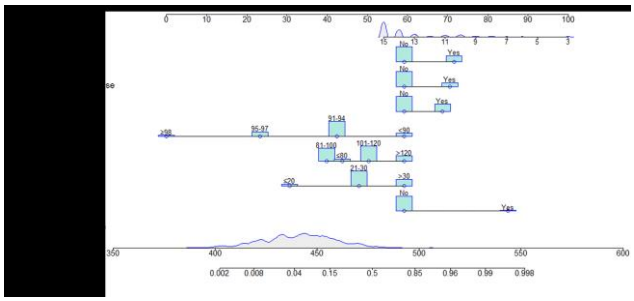
21: 2023/02192. 22: 2023/02/22. 43: 2023/05/22
51: A61B
71: Zhou Daozheng
72: Zhou Daozheng
54: A TIBIAL OSTEOTOMY PLATE FOR KNEE REPLACEMENT
00: -

The invention discloses a tibial osteotomy plate for knee replacement, comprising an osteotomy plate; the front of the osteotomy plate is provided with a strip slot A and a strip slot B parallels to it, and the upper end is provided with several observation holes. The strip slot A is located above the strip slot B, and the width is larger than the latter; the strip slot A is used to observe the bone, and the strip slot B is for inserting the scalpel. The osteotomy plate is provided with several positioning holes, and the positioning holes are located at the lower part of the strip slot B. The several observation holes are a plurality of holes with different geometries, communicating with the strip slot A and the strip slot B. The advantages of the invention are: the bone condition can be observed from multiple angles while processing the osteotomy, helping the operation smoother and more accurate, which presents high value of practical and promotion.

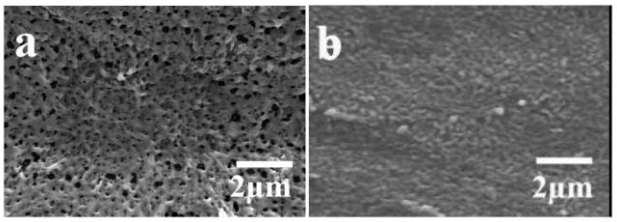


21: 2023/02193. 22: 2023/02/22. 43: 2023/05/22
51: G06Q
71: Peking Union Medical College Hospital, Chinese Academy of Medical Sciences
72: Cui Na, Li DongKai, Du Bin, Li ZunZhu, Luo HongBo, Long Yun, Cheng Wei, Zhang JiaHui
54: PREDICTION MODEL FOR READMISSION TO ICU OR UNEXPECTED DEATH OF CRITICALLY ILL PATIENTS AFTER EMERGENCY GENERAL SURGERY AND ITS CONSTRUCTION METHOD

00: -
The invention provides a prediction model for readmission to ICU or unexpected death of critically ill patients after emergency general surgery and its construction method, and relates to the technical field of biomedicine. The prediction model for readmission to ICU or unexpected death of patients after emergency general surgery comprises a regression analysis model, a nomogram and the multi-step verification of model verification set. And through statistical methods such as nomogram, in the invention, the complex prediction model is successfully and simply visualized, which is convenient for clinicians to quickly and accurately predict the risk of readmission to ICU or unexpected death of critically ill patients after emergency general surgery, thus effectively intervening and preventing.

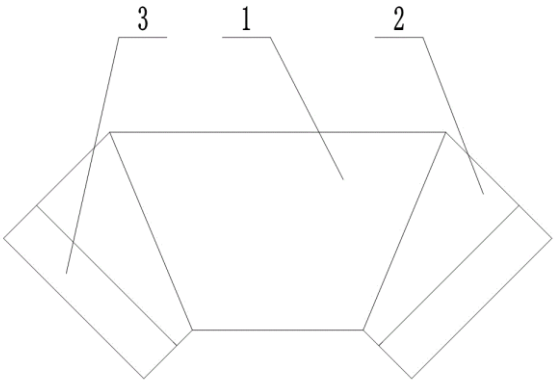


21: 2023/02194. 22: 2023/02/22. 43: 2023/05/19
51: C08L
71: Taiyuan University of Technology, Zhejiang University, Shanxi-Zheda Institute of Advanced Materials and Chemical Engineering
72: Xiaohong LIANG, Lan JIA, Heng ZHANG, Hongwei HE, Wenwen YU, Yanan YE, Min ZUO
33: CN 31: 202211330729.6 32: 2022-10-28
54: A PREPARATION METHOD OF CELLULOSE NANOCRYSTALS MODIFIED WATERBORNE POLYURETHANE COMPOSITES AND IT APPLICATION
00: -
The invention discloses a preparation method of cellulose nanocrystals modified waterborne polyurethane composites and its application, the preparation process is: Prepare the Cellulose nanocrystals by reacting microcrystalline cellulose with sulfuric acid. Carry out the amino surface modification of cellulose nanocrystals; Obtain the first prepolymer after stirring the heating dehydrated macromolecular diol with diisocyanate for reaction. Obtain the second prepolymer after the first prepolymer is reacted with a hydrophilic chain extender, small molecule diol chain extender, internal crosslinking agent, and catalyst. Disperse the modified cellulose nanocrystals in acetone and react with the second prepolymer. Add the neutralization agent for neutralization, and finally add the deionized water and diamine, and the cellulose nanocrystals modified waterborne polyurethane composites are obtained. The invention uses the amino terminal group to promote the crosslinking polymerization of cellulose nanocrystals and waterborne polyurethane, it cooperates with the small molecule internal crosslinking agent to enhance the mechanical properties, thermal stability, and water resistance of the composite material. The composite material can be applied to the field of anti-corrosive coatings.

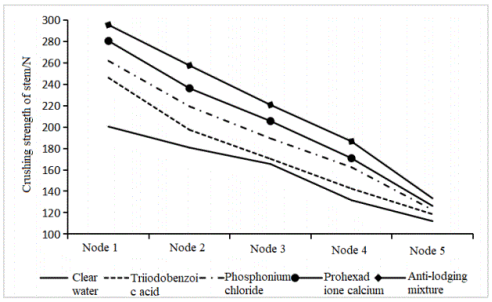


21: 2023/02195. 22: 2023/02/22. 43: 2023/05/19
51: A61L
71: JILIN UNIVERSITY
72: QU Wenrui, GUO Wenlai, HAN Qinghe, TIAN Heng, ZHOU Huidong, GUO Deming, WU Siyu, FENG Yuqi, ZHOU Jinrui
54: ARTIFICIAL BLOOD VESSEL WITH END-TO-SIDE ANASTOMOSIS
00: -
The invention relates to the technical field of artificial blood vessels, in particular to an artificial blood vessel with end-to-side anastomosis, which comprises an artificial blood vessel, where both ends of the artificial blood vessel are fixedly connected with a connecting component, and the connecting component comprises a fixed end, which is fixedly connected and communicated with the artificial blood vessel, and is detachably connected with a movable end, which is detachably connected with a human blood vessel. According to the invention, the movable end is placed at the inner wall of the human blood vessel, so that the tapered column penetrates through the inner wall of the human blood vessel and is inserted into the limiting hole, so that the human blood vessel and the artificial blood vessel can be rapidly anastomosed and communicated, the

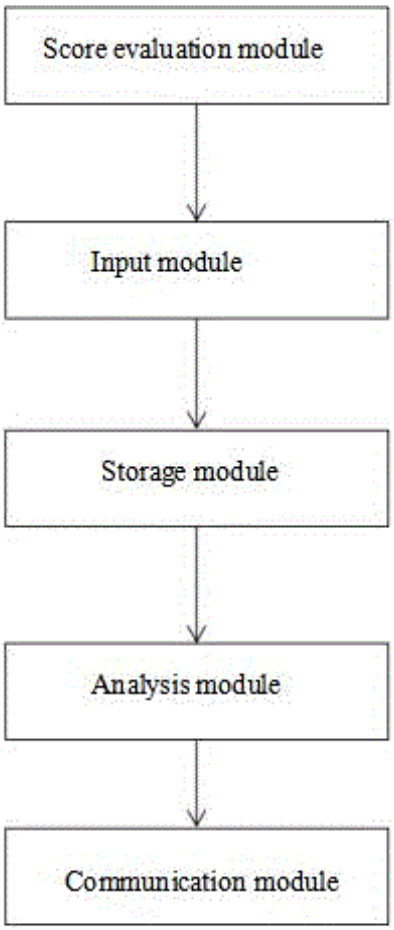
anastomosis speed of the human blood vessel and the artificial blood vessel is effectively improved, and the problems of poor blood flow and leakage are effectively avoided.



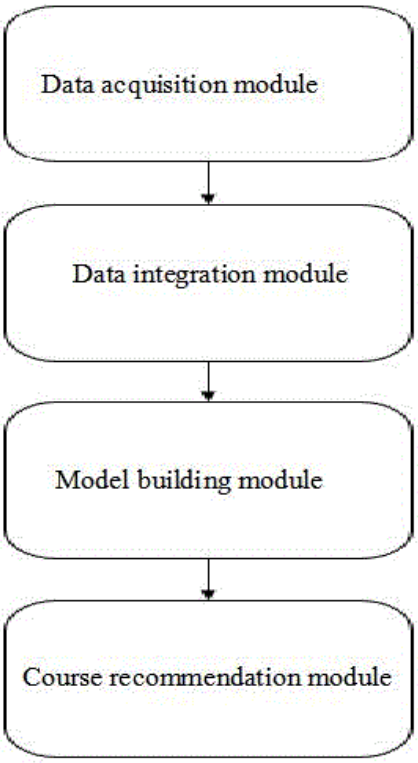
21: 2023/02196. 22: 2023/02/22. 43: 2023/05/19
51: G01N
71: Soybean Research Institute of Heilongjiang Academy of Agricultural Sciences
72: REN, Honglei, ZHANG, Fengyi, ZHANG, Bixian, WANG, Jiajun, ZHANG, Ruiping, LIU, Xiulin, WANG, Xueyang, ZHAO, Kezhen, SUN, Mingming, HAN, Xinchun, ZHU, Xiao, ZHANG, Xin, HE, Wenjin
54: METHOD FOR IMPROVING LODGING RESISTANCE CAPABILITY OF SOYBEAN AND APPLICATION THEREOF
00: -
The present invention provides a method for improving the lodging resistance capability of soybean, and belongs to the technical field of phytophytochemical control. The present invention provides an anti-lodging spraying mixture for soybeans, and the mixture includes the following active ingredients at corresponding mass concentrations: 4.0 - 6.0 percent prohexadione calcium, 3.0 - 5.0 percent triiodobenzoic acid and 3.0 - 5.0 percent phosphonium chloride. The present invention realizes phytochemical control of soybean by means of spraying prohexadione calcium, triiodobenzoic acid and phosphonium chloride before an initial flowering stage of soybean, which can lower the plant height/stem diameter ratio and field lodging grade, improve the crushing strength of stems and the lodging resistance capability of soybean, and avoid reduction of soybean yield due to lodging.



21: 2023/02197. 22: 2023/02/22. 43: 2023/05/19
51: G09B
71: ZHENGZHOU RAILWAY VOCATIONAL & TECHNICAL COLLEGE
72: ZHANG Haoyi, WANG Yaqing, LIU Hongwei, GAO Qian, ZHANG Qian, FU Rong, YANG Li'na, QIAO Cong, ZHAO Jiancheng, XUE Ming, LEI Hua, YU Chunping, ZHANG Zexin
54: STUDENT ACHIEVEMENT MANAGEMENT SYSTEM FOR RUSSIAN TEACHING
00: -
The invention discloses a student achievement management system for Russian teaching, which comprises: an achievement evaluation module for evaluating students' achievements; the input module is used for inputting student information, teaching contents, examination paper contents and the student scores; the storage module is connecte with that input module and used for store the input student information, teaching contents, examination papers and student achievement; the analysis module is connected with the storage module and used for analyzing according to the students' grades to obtain an analysis result; And the communication module is connected with the analysis module and used for sending the student scores and analysis results to students and teachers. Through the analysis of the test results by the analysis module, this system can quickly and accurately complete the analysis of students' scores, let students know that they have weak knowledge points, and let teachers explain the weak knowledge points for students again, so as to achieve the goal of quickly improving Russian scores and learning Russian.

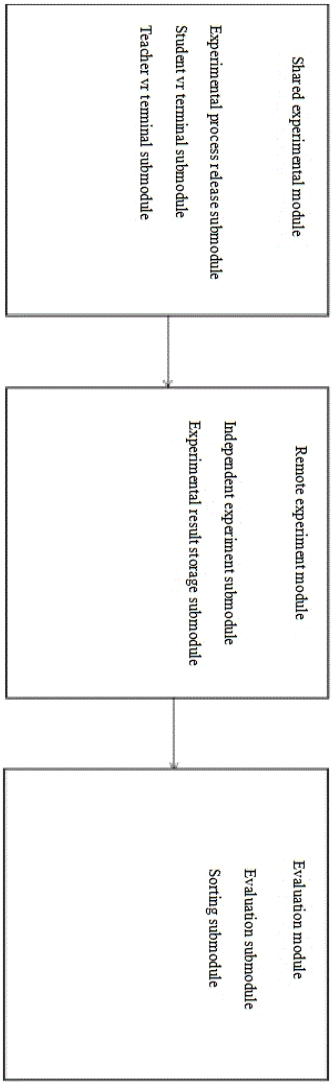


21: 2023/02199. 22: 2023/02/22. 43: 2023/05/19
51: G09B
71: ZHENGZHOU RAILWAY VOCATIONAL & TECHNICAL COLLEGE
72: GAO Qian, ZHANG Qian, ZHANG Haoyi, WANG Yaqing, LIU Hongwei, LIANG Chaohui, LEI Hua, YU Chunping, HUANG Siyu, MA Weina
54: RUSSIAN COURSE RECOMMENDATION SYSTEM BASED ON BIG DATA
00: -
The invention discloses a Russian course recommendation system based on big data, which comprises a data acquisition module for acquiring students' search course data and existing course data; The data integration module is used for extracting the keywords of the student search course data and the keywords of the existing course data; The model building module is used for building a similarity scoring model based on the neural network; The course recommendation module is used for recommending Russian courses based on the similarity scoring model. According to the invention, a keyword matching model is constructed, and courses are recommended based on the model, so that the blindness of students in Russian course selection can be effectively solved; In addition, the model can be better trained by using good school curriculum data and student search data, and the accuracy is improved. At the same time, the invention can provide word and part-of-speech retrieval with high accuracy, and at the same time, it eliminates the problem of low accuracy of data generated during course recommendation.



21: 2023/02200. 22: 2023/02/22. 43: 2023/05/19
51: G09B
71: ZHENGZHOU RAILWAY VOCATIONAL & TECHNICAL COLLEGE
72: CHEN Bin, WANG Hongtao, WU Lin, LI Jin, DONG Dandan, ZHANG Caixia
54: REMOTE TEACHING SYSTEM OF UNIVERSITY CHEMICAL EXPERIMENT
00: -
The invention relates to a remote teaching system for university chemical experiments, which comprises a shared experiment module, a remote virtual experiment module and an evaluation module; the sharing experiment module is used for

carrying out virtual chemistry experiments; the remote virtual experiment module is used for conducting a remote experiment by learning the virtual chemistry experiment; the evaluation module is used for evaluating the remote experiment. According to the invention, students can truly experience the experimental process, and safety can be ensured without pollution.

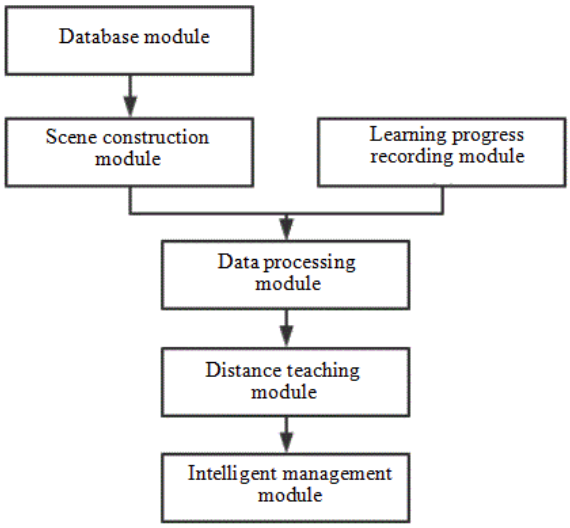


21: 2023/02202. 22: 2023/02/22. 43: 2023/05/19
51: G09B
71: ZHENGZHOU RAILWAY VOCATIONAL & TECHNICAL COLLEGE
72: ZHOU Sujing, ZHANG Ying, YU Min, ZHANG Yuling, GUO Qiongqiong, YANG Junhong, CHEN Bin
33: CN 31: 2023100536516 32: 2023-01-30

54: INTERNET-BASED MATHEMATICS DISTANCE TEACHING SYSTEM

00: -

The invention provides an Internet-based mathematics distance teaching system, which comprises a database module for storing the identity information of teachers and students, teaching resources and preset classroom full-motion video; the scene construction module is used for constructing a classroom virtual environment and a virtual functional area; the learning progress recording module is used for recording the online learning progress; the data processing module is used for fusing the students' grades and the learning progress of corresponding subjects, and comparing the fused values with preset threshold intervals to generate corresponding learning signals; the distance teaching module is used for receiving learning signals, selecting corresponding teaching resources and teacher grades, and selecting corresponding virtual scenes to carry out online teaching; the intelligent management module is used to collect and analyze the students' operation data in the teaching process to obtain the students' learning situation and feed it back to the corresponding teachers. According to the invention, the teaching content can be customized for students in a targeted way, so that the teaching is more efficient.



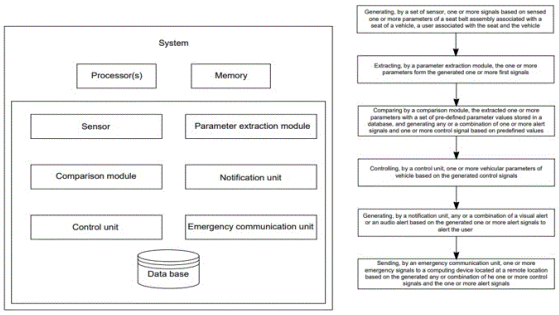
21: 2023/02203. 22: 2023/02/22. 43: 2023/05/19
51: B60R; G05D; B60W

71: Dr. Bindu Kumar Karthikeyan, Dr. Remesh Babu Kaippilly Raman, Dr. Sangeetha Unnikrishnan
72: Dr. Bindu Kumar Karthikeyan, Dr. Remesh Babu Kaippilly Raman, Dr. Sangeetha Unnikrishnan

54: VEHICLE OCCUPANTS SAFETY SYSTEM

00: -

A vehicle occupants safety system, comprising seating platforms positioned within a cabin of a vehicle that are accessed by a user(s) to attain a sitting posture, a weight sensor for detecting successful accommodation of user(s) on platforms, an audio-visual alerting unit for generating an audio-visual alert in order to notify user(s) to engage a seatbelt with a seatbelt buckle, a pressure sensor for detecting locking of a seatbelt tongue, a sensing module for detecting consumption of alcohol by user(s) along with speed of vehicle while driving, an ECU (Engine Control Unit) for controlling operation of a TCU (Transmission Control Unit) for locking a gear box unit, and a heart-beat monitoring sensor integrated on seat belt for detecting heart rate of user(s) while driving vehicle.



21: 2023/02204. 22: 2023/02/22. 43: 2023/05/22
51: G01N
71: The First Affiliated Hospital of Chongqing Medical and Pharmaceutical College
72: FU Guanyan, XU Shangcheng, ZHOU Qu, YANG Fucheng, GONG Jin, SHI Si, LENG Xiaoxiao, PEI Wen, ZHANG Maolin, ZHU Bingfeng

54: METHOD FOR RAPIDLY DETECTING PARAQUAT IN URINE BY COLLOIDAL GOLD IMMUNOCHROMATOGRAPHIC TEST STRIP

00: -

The invention relates to the technical field of biological detection, and particularly discloses a method for rapidly detecting paraquat in urine by colloidal gold immunochromatographic test strip, which comprises the following steps: preparing a colloidal gold solution containing colloidal gold particles with a particle size of 10-30nm by using chloroauric acid aqueous solution and trisodium citrate aqueous solution as raw materials; Labeling the monoclonal antibody of paraquat with colloidal gold solution: centrifuge the colloidal gold solution, discard the supernatant, adjust the pH value of the precipitate with potassium carbonate solution, add the monoclonal antibody of paraquat, stir evenly and let stand; Dropping sterile bovine serum albumin, stirring, and standing overnight at room temperature; Centrifuging the labeled colloidal gold solution again, discarding the supernatant, and redissolving the precipitate with a heavy suspension to obtain a colloidal gold labeled monoclonal antibody solution of paraquat; Colloidal gold immunochromatographic test strip assembly: the gold label pad is sprayed with gold, and the nitrocellulose membrane is coated with C line and T line. Based on the principle of colloidal gold immunochromatography, the constructed colloidal gold test strip for paraquat can simply, accurately and quickly screen paraquat in urine, and the sensitivity of the test strip can reach 10ng/mL.

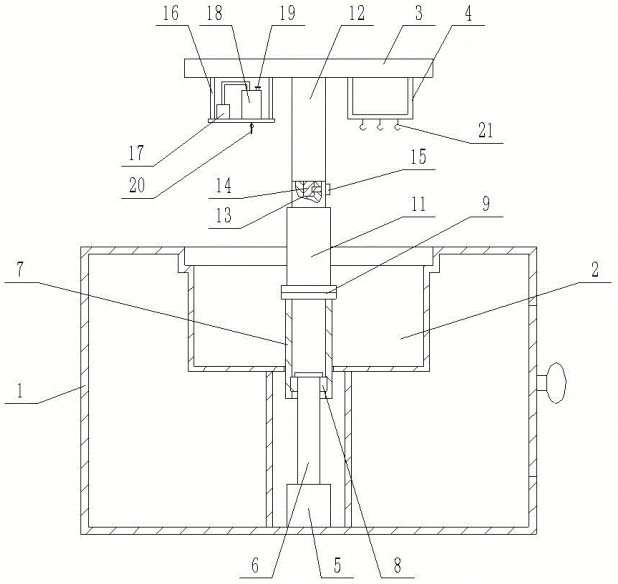
21: 2023/02205. 22: 2023/02/22. 43: 2023/05/22
51: A61G
71: WEIFANG MEDICAL UNIVERSITY
72: WU Jianyan, MA Huijie, SUN Yingui, WANG Guizhi

54: ANESTHESIA AUXILIARY SUPPORT FOR ANESTHESIA

00: -

The invention discloses an anesthesia auxiliary support for anesthesia, which comprises a base, wherein a storage groove is arranged at the top end of the base; a cavity is arranged in the base, a lifting mechanism is installed in the cavity, a support plate is fixedly installed at the top end of the lifting mechanism, and the support plate is matched with the storage groove; the bottom end of the support plate is provided with an injection mechanism and a storage box, and both the injection mechanism and the storage box are arranged in the storage groove. The invention is simple in structure, convenient to use, and has a good adjustment function, and can adjust the height and angle of the anesthesia auxiliary support, so that the use of the anesthesia auxiliary support is more humanized and the use experience of users on the anesthesia auxiliary

support is improved; when not in use, the support plate, the injection mechanism and the storage box on it can be stored in the storage groove on the base, occupying only the size of the base, and will not affect the work of medical staff; moreover, the cavity arranged in the base can be used as a locker.

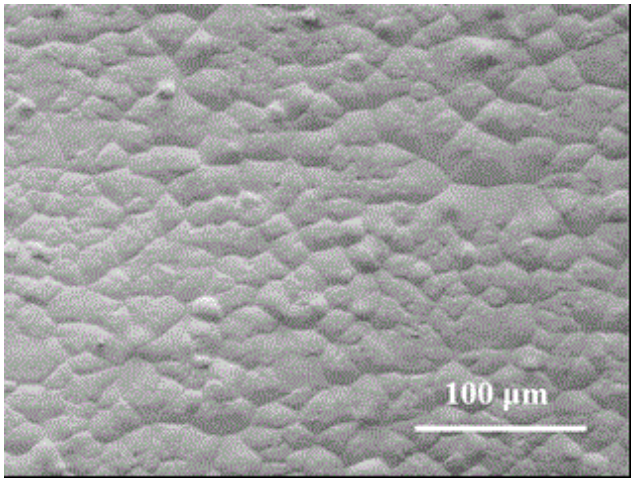


21: 2023/02206. 22: 2023/02/22. 43: 2023/05/22
51: G01L
71: Beijing Information Science and Technology University
72: Chen Yanxia, Chen Chen, Qin Lei

54: PREPARATION AND APPLICATION OF THE FLEXIBLE BIOSENSOR WITH HIGH MECHANICAL STRENGTH

00: -

The invention discloses the preparation and application of the flexible biosensor with high mechanical strength, and the preparation compriseing the following steps: coat the chitosan solution on a glass sheet to form the chitosan coating; prepare mineralizing solution; completely immerse chitosan mineralizing solution to form calcium carbonate coating; immerse the calcium carbonate coating in sodium hydroxide solution to remove the film to form the calcium carbonate film; immerse the calcium carbonate film in octadecyl trichlorosilane solution to form a hydrophobic layer; pattern the hydrophobic layer, and simultaneously form the hydrophobic region and the hydrophilic region. According to the invention, the calcium carbonate film is used as the base material, which solves the problems of easy damage, poor stability and low mechanical strength of the existing biosensor, prolongs the detection life of the biosensor, and simultaneously has a simple manufacturing process and reduces the manufacturing cost. In addition, the invention can simultaneously carry out sensing detection by colorimetric method and fluorescence method, and besides multi-component detection, it can also carry out statistics of sweat volume and sweat rate.

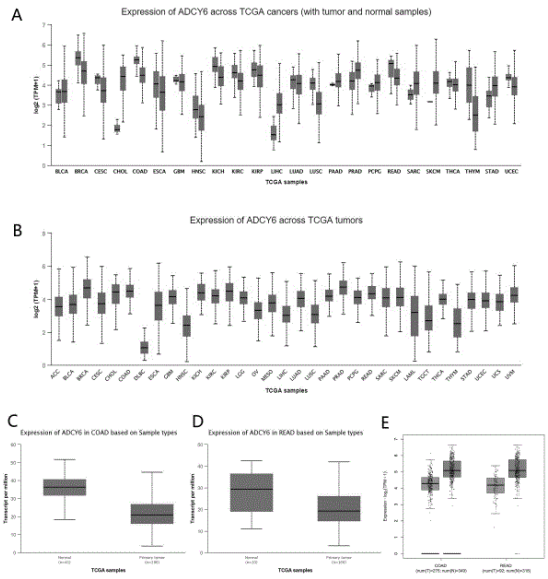


21: 2023/02207. 22: 2023/02/22. 43: 2023/05/22
51: A61K
71: The Affiliated Nanchong Center Hospital of North Sichuan Medical College
72: Hong PENG, Rong JIA, Juan LIU, Mingsha PENG, Lei GONG

54: AN APPLICATION OF ADCY6 IN THE INHIBITION OF COLORECTAL CANCER

00: -

The present invention relates to the technical field of colorectal cancer, and specifically discloses an application of ADCY6 in suppressing colorectal cancer, where overexpression of ADCY6 inhibits the proliferation of CRC cells in vitro and in vivo, and overexpression of ADCY6 inhibits the migration and invasion of CRC cells. The present invention employs one of the above-mentioned applications of ADCY6 in suppressing colorectal cancer and identifies ADCY6 as a tumor suppressor gene and a promising therapeutic target for colorectal cancer.

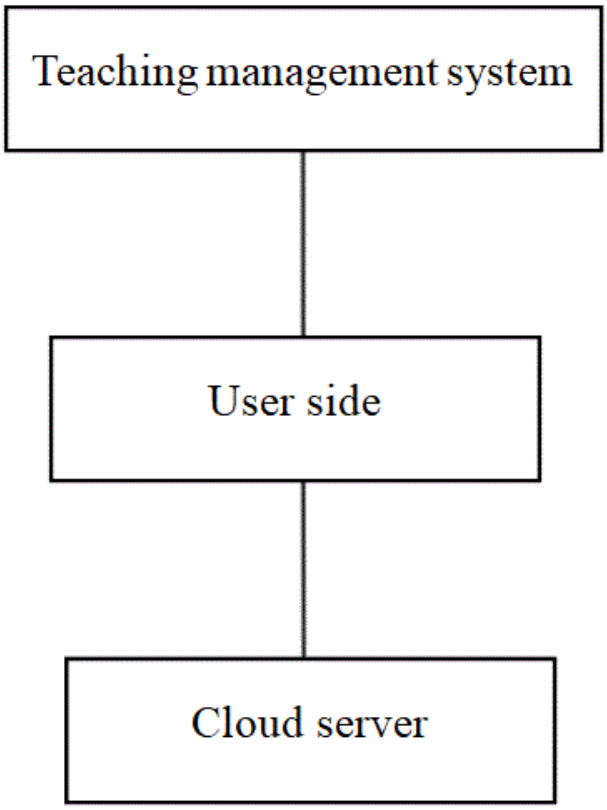


21: 2023/02210. 22: 2023/02/22. 43: 2023/05/19
51: G09B
71: ZHENGZHOU RAILWAY VOCATIONAL & TECHNICAL COLLEGE
72: LIU Hongwei, GAO Qian, ZHANG Qian, ZHANG Haoyi, WANG Yaqing, YANG Peng, LIU Shaoqing, XUE Ming, NIU Mingmin

54: RUSSIAN ONLINE TEACHING SYSTEM

00: -

The invention discloses a Russian online teaching system, which comprises a teaching management system, a user side and a cloud server which are connected in sequence; where, information transmission is supervised and controlled based on the teaching management system, so that users can obtain the teaching content and data information of the teaching system through the user terminal, and store the data information to the cloud server, and the cloud server analyzes the data information and calls it according to requirements. The invention solves the problem of shortage of educational resources at present, saves teachers' resources to the greatest extent, simplifies teaching methods and further improves teaching efficiency.



21: 2023/02211. 22: 2023/02/22. 43: 2023/05/22
51: A23K
71: China Agricultural University
72: WU, Yi, ZHANG, Mingrui, WANG, Haotian, MO, Ruixia, LIU, Tianyi, LIU, Pan

54: NUTRITIONAL PASTE BENEFICIAL TO BLOOD REPLENISHING OF PETS AND PREPARATION METHOD THEREOF

00: -

The present invention discloses a nutritional paste beneficial to blood replenishing of pets. The nutritional paste contains natural blood-enriching and qi-tonifying plant extract components, and through reasonable proportioning, the hematopoietic ability of pets can be safely and efficiently improved; and the nutritional paste can effectively improve the iron-deficiency anemia of pets, help postoperative pets to replenish blood, assist the physical recovery of the pets and enhance the immunity of the pets.

21: 2023/02212. 22: 2023/02/22. 43: 2023/05/22
51: A23K
71: China Agricultural University
72: WU, Yi, MO, Ruixia, ZHANG, Mingrui, LIU, Pan, WANG, Haotian, LIU, Tianyi

54: DIET WITH PREVENTIVE AND HEALTHCARE EFFECTS FOR PET DOGS AND PREPARATION METHOD THEREOF

00: -

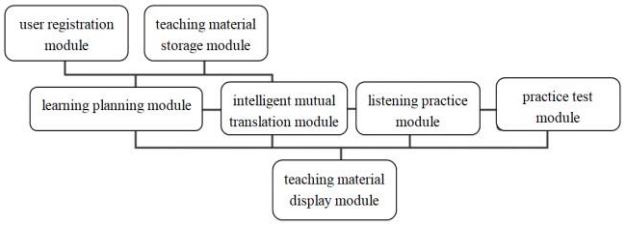
The present invention discloses a diet with preventive and healthcare effects for pet dogs. The anti-oxidation state of the bodies of pet dogs can be improved, oxidative damage can be resisted, and the physical health of pet dogs can be enhanced; and thus, the diet for pet dogs has preventive and healthcare effects.

21: 2023/02213. 22: 2023/02/22. 43: 2023/05/19
51: G09B
71: ZHENGZHOU RAILWAY VOCATIONAL & TECHNICAL COLLEGE
72: WANG Yaqing, LIU Hongwei, GAO Qian, ZHANG Qian, ZHANG Haoyi, GAO Yang, YU Chunping, LEI Hua, WANG Xuejiao

54: MULTIMEDIA TEACHING SYSTEM FOR RUSSIAN TEACHING

00: -

The invention discloses a multimedia teaching system for Russian teaching, which comprises a user registration module for inputting and saving basic information of users; a teaching material storage module is used for inputting and storing teaching material files that users need to upload; a learning planning module is used for learning planning for users according to the teaching material files and the basic information of users; an intelligent mutual translation module is used for translating the teaching material files into Russian and other languages; a listening practice module is used for playing the teaching material file to the user for the user to learn pronunciation; a practice test module is used for users to conduct listening test and written test; a teaching material display module is used for displaying the contents of teaching material files, learning plans, translation contents and test contents in real time. This system supports listening test, pronunciation test and written test, which can simultaneously improve users' Russian listening, speaking, reading and writing level.

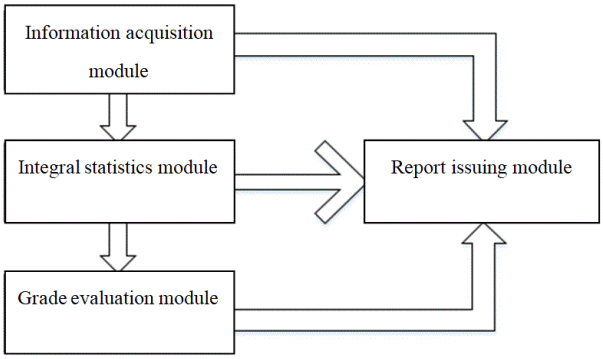


21: 2023/02214. 22: 2023/02/22. 43: 2023/05/19
51: G09B
71: ZHENGZHOU RAILWAY VOCATIONAL & TECHNICAL COLLEGE
72: ZHANG Qian, ZHANG Haoyi, WANG Yaqing, LIU Hongwei, GAO Qian, QIAO Cong, ZHANG Xiaojing, GAO Qifeng, LIANG Chaohui, WANG Ningxin, ZHAO Jiancheng, LEI Hua, JIANG Ge, QI Hui

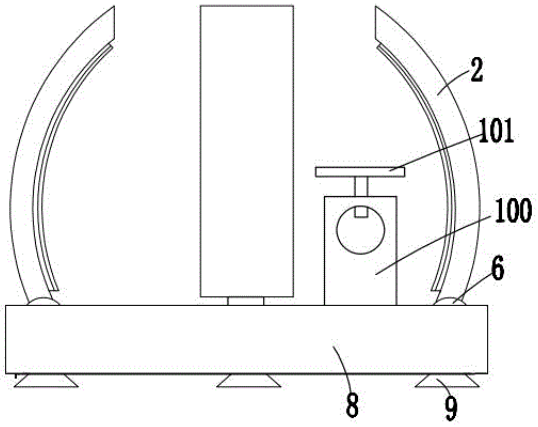
54: INTELLIGENT EVALUATION SYSTEM OF STUDENTS' COMPREHENSIVE LEVEL FOR RUSSIAN TEACHING

00: -

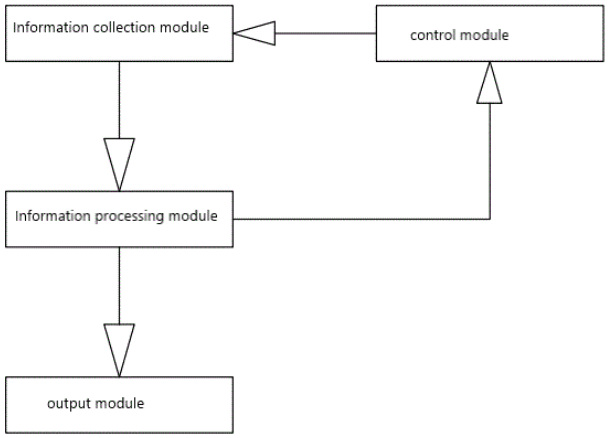
The invention discloses an intelligent evaluation system of students' comprehensive level for Russian teaching, which comprises an information acquisition module, an integral statistics module, a grade evaluation module and a report issuing module; the information acquisition module, the integral statistics module and the grade evaluation module are connected in sequence, and the information acquisition module, the integral statistics module and the grade evaluation module are connected with the report issuing module respectively; where, the information acquisition module is used for acquiring students' personal information, process learning information and result learning information; the integral statistics module is used for calculating the Russian learning integral of students based on the process learning information and the result learning information; the grade evaluation module is used for dividing the Russian learning level grades of students based on the Russian learning points; the report issuing module is used to issue students' Russian comprehensive level reports. The invention evaluates and grades students' Russian learning level, which is convenient for evaluation participants and users to understand.



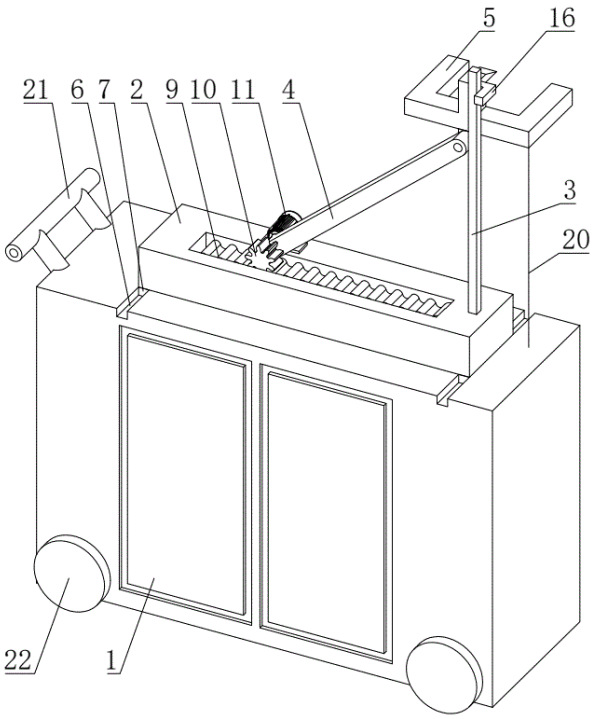
21: 2023/02218. 22: 2023/02/22. 43: 2023/05/22
51: A61M
71: The Second Affiliated Hospital of Shantou University Medical College
72: Zhiyang Li, Yexi Chen, Yiyuan Liu, Juan Zou, Jiehui Cai, Jinyao Wu, Weixun Lin, Jiehua Zheng, Lingzhi Chen, Zeqi Ji, Huiting Tian, Qiuping Yang, Haiting Wang, Zhongming Zhou, Daitian Zheng, Xiaoqi Lin, Yanxian Chen, Liuming Lin, Qingjun Lin, Zhiyao Lin
33: CN 31: 202210599837.7 32: 2022-05-30
54: A SURGICAL DRAINAGE FIXING DEVICE FOR THYROID, BREAST SURGERY
00: -
The invention discloses a surgical drainage fixing device for thyroid, breast surgery that plays a limiting role on the breast. It includes a mounting ring, the upper part of the mounting ring is provided with four arc limiting plate, the top of the mounting ring is fixed with a fixed mechanism, the top of the mounting ring is provided with four rotating grooves, the opposite side of the two rotating grooves away from each other are provided with an opening, rotating groove between the two sides of the inner wall is installed with a rotating shaft, the shaft is fixed sleeve with a rotating drive mechanism. The invention is convenient to fix the whole device through four silicone suction cups and realize the purpose of enhancing the internal negative pressure of silicone suction cups synchronously while driving the four curved limit plates to rotate. It can improve the stability of fixation and effectively reduce the risk of displacement of the whole device in the process of use. By synchronously driving the four curved limit plates to shrink the limit inward, it can effectively reduce the phenomenon of breast deformation affecting drainage in the process of drainage and reduce the potential safety risks.



21: 2023/02219. 22: 2023/02/22. 43: 2023/05/22
51: H04N
71: Zhengzhou University of Aeronautics
72: Ren Hongjuan, Ding Fei, Yin Junwei, Song Jingjing, Duan Xinxin, Gaobo
54: A CLASS MONITORING SYSTEM FOR INTELLIGENT EDUCATION
00: -
The invention discloses a smart education classroom monitoring system, including an information acquisition module, an information processing module, an output module, and a control module. The information acquisition module includes a monitoring camera. The information acquisition module collects the status information of students in the classroom through the face recognition function of the monitoring camera, and transmits the information to the information processing module, The information processing module records and stores the processed information through the output module, and also includes the support mechanism. The monitoring camera is set on the ceiling of the classroom through the support mechanism. The control module is used to control the status of the monitoring camera. The system can well replace the teacher to record the classroom performance of each student in detail. The support mechanism of the monitoring camera can enable the monitoring camera to patrol the classroom in real time. Through the movement of the monitoring camera, there is no dead corner in the monitoring. In addition, the system can stop and collect the surrounding information in time after the change of the student status is detected during the patrol process.

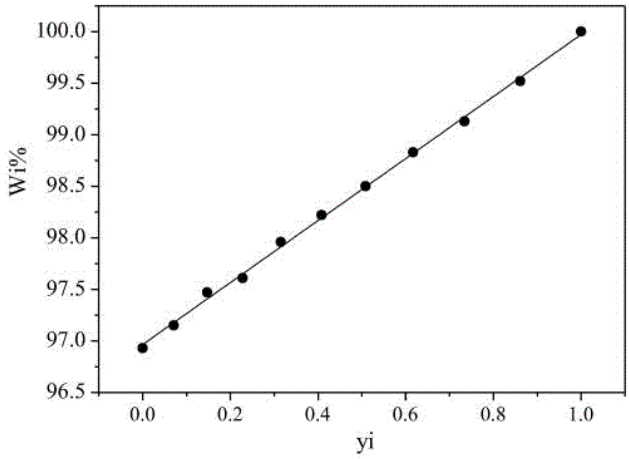


21: 2023/02220. 22: 2023/02/22. 43: 2023/05/22
51: B25J
71: Zhengzhou University of Aeronautics
72: Zhao Ruihan, Bi Liping, Ye Peng, Zhu Hongtao
54: A CONVENIENT BOOK PLACEMENT PLATFORM
00: -
The invention discloses a book placement platform that is easy to take and place, including a mobile car. The mobile car is equipped with a mounting base that can move back and forth. The mounting base has a single fixed vertical bar, the left end of the vertical bar has a diagonal bar, the left end of the diagonal bar is placed on the mounting base and can move left and right, and the right end of the diagonal bar rests on the left end face of the vertical bar; The right end of the diagonal bar is hinged with a clamping claw, and the right end of the diagonal bar moves up and down to drive the clamping claw to move up and down along the vertical bar; The clamping claw can clamp the books placed vertically and rotate them to the horizontal position, or rotate the books placed horizontally on the clamping claw to the vertical position. The invention solves the problem that the books placed in a higher position are easy to be damaged.



21: 2023/02221. 22: 2023/02/22. 43: 2023/05/22
51: C01F; G01N
71: HUZHOU COLLEGE
72: CHEN Haifeng, CAO Feng, WANG Yongya, YU Ying, LUO Wenqin, HAO Lifeng
54: METHOD FOR QUICKLY DETECTING CONVERSION RATE OF MAGNESIUM OXIDE TO MAGNESIUM HYDROXIDE
00: -
The invention discloses a method for rapidly detecting the conversion rate of magnesium hydroxide generated by magnesium oxide, which comprises the following steps: 1. making a standard sample, first mixing raw magnesium oxide with the standard magnesium hydroxide, then adding sodium dodecyl benzene sulfonate equal to the raw magnesium oxide, then adding anhydrous ethanol as a solvent, stirring, filtering and vacuum drying to obtain a batch of mixed standard samples with different magnesium hydroxide contents, and calculating the conversion rate of the mixed standard samples; 2. detecting the color difference of the mixed standard sample by using a color difference meter to obtain a group of L, a and b; 3. according to the whiteness calculation formula, the whiteness is obtained; 4. performing linear fitting on the whiteness and conversion rate of the mixed standard sample to obtain a linear fitting equation; 5. During

detection, random sampling is carried out on site, and whiteness is measured and calculated by color difference meter, which is brought into the above linear fitting equation to obtain the conversion rate. The invention greatly reduces the test cost, operation difficulty and test time, and is very beneficial to the rapid detection in real time in large quantities on site.

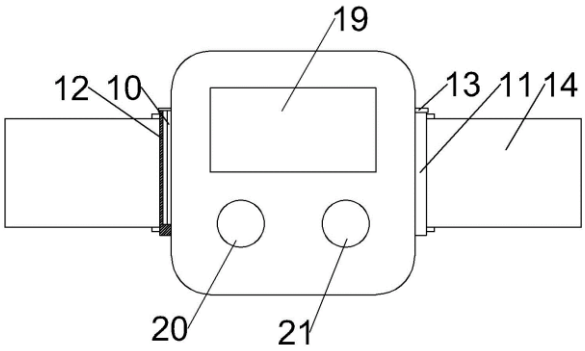


21: 2023/02222. 22: 2023/02/22. 43: 2023/05/22
51: G08B
71: XUZHOU COLLEGE OF INDUSTRIAL TECHNOLOGY
72: HAN Shanhua

54: INTELLIGENT PAGER FOR DISABLED ELDERLY PEOPLE AGED AT HOME

00: -

The invention relates to the technical field of pagers, and in particular to an intelligent pager for the disabled elderly aged at home, including an upper shell and a lower shell, wherein a sliding connection component is arranged between the upper shell and the lower shell; a slot is horizontally arranged on one side wall of the lower shell; a socket is detachably and slidably connected in the slot; the socket is correspondingly arranged with the sliding connection component; two opposite outer walls of the lower shell are respectively fixedly connected with bosses; the bosses are opposite to the slot; two groups of bosses are correspondingly provided with wearing parts or clamping parts; the upper shell and the lower shell are respectively provided with paging units and alarm components; and the alarm components are correspondingly arranged with the sliding connection component. The invention has simple operation, makes the elderly quickly call for help when an emergency occurs, and may be fixed in various ways at the same time.

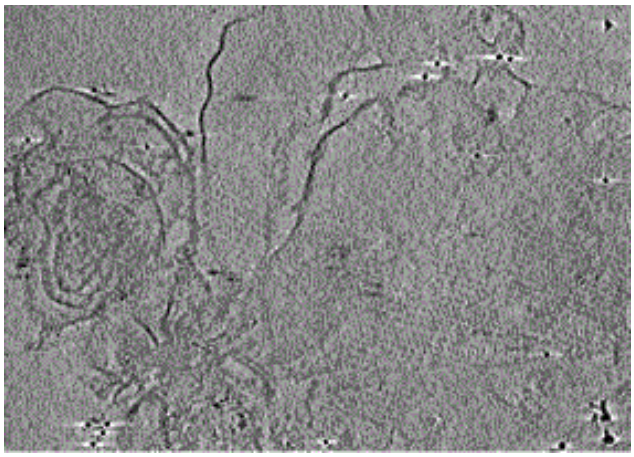


21: 2023/02223. 22: 2023/02/22. 43: 2023/05/22
51: C12Q; G01N
71: XIANGYA HOSPITAL CENTRAL SOUTH UNIVERSITY
72: KUANG Xuyuan, CHEN Ruochan, WANG E, PENG Zhengrong, BAI Sufen

54: METHOD FOR SIMULTANEOUS IDENTIFICATION OF PROTEIN AND STRUCTURE THEREOF

00: -

The invention provides a method for simultaneous identification of protein and structure thereof, which comprises the following steps: 1) pretreating grids of the cryoelectron microscope by using poly-L-lysine solution and PBS respectively; 2) placing the grid face up in a culture dish, dripping samples onto the grid, standing and incubating, and eluting with PBS; 3) adding a sealing agent into a culture dish, standing and incubating, and eluting with PBS; 4) adding a primary antibody, namely a specific antibody of a target protein, into a culture dish, standing and incubating, and eluting with PBS; 5) adding a secondary antibody, i.e., an immunogold antibody selected according to the species of the primary antibody, into a culture dish, standing and incubating, and eluting with PBS; And 6) taking out the grid and imaging with a cryoelectron microscope, and analyzing the image data to obtain a target protein structure. According to the invention, the advantages of an immunolabeling protein technology and a freezing electron microscope tomography technology are combined, so that the target protein can be observed in freezing electron microscope imaging, and the structure can be analyzed simultaneously.

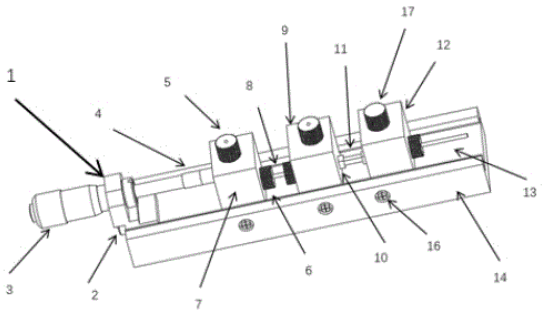


21: 2023/02224. 22: 2023/02/22. 43: 2023/05/22
51: G01N
71: China Jiliang University
72: QIAN Lijuan, ZHU Chenlin, JIANG Zhitao, WU Chenghui

54: MULTI-STAGE FINE-TUNING COAXIAL CAPILLARY MICROFLUIDIC CHIP AND EMULSION PREPARATION METHOD

00: -

The invention discloses a multistage fine-tuning coaxial capillary microfluidic chip and a preparation method of emulsion, belonging to the technical field of microfluidic chips. The chip comprises a focusing tube tube, a collecting tubetube and a square tube tube, and also comprises a slide rail provided with a chute, a feeding device with adjustable distance, a forward liquid inlet platform, a middle liquid inlet platform and a rear liquid inlet platform. The middle liquid inlet platform and the rear liquid inlet platform are respectively fixed at appropriate positions on the slide rail; two ends of the square tube are respectively placed in the square grooves on the two square bosses, and a collecting tubeenters the square groove through a circular threaded hole; A focusing tube tube is inserted into the circular threaded hole of the right plate of the forward liquid inlet platform, and then it is moved to an appropriate position on the slide rail as a whole, so that the other end of the focusing tube tube enters the square groove of the right plate through the circular threaded hole of the left plate of the middle liquid inlet platform. This integral structure can realize multiple arrays in the same direction, connected by rubber hoses, and used to prepare complex micro-droplets. By combining 3D printing technology, the invention can quickly and efficiently prepare chips, adopts a split modular assembly method, and has the characteristics of real-time adjustment of experiments. This multistage structure greatly improves the speed of liquid droplet preparation, greatly reduces the material cost and the complexity of assembly, and also makes the preparation of complex liquid droplets no longer a problem.

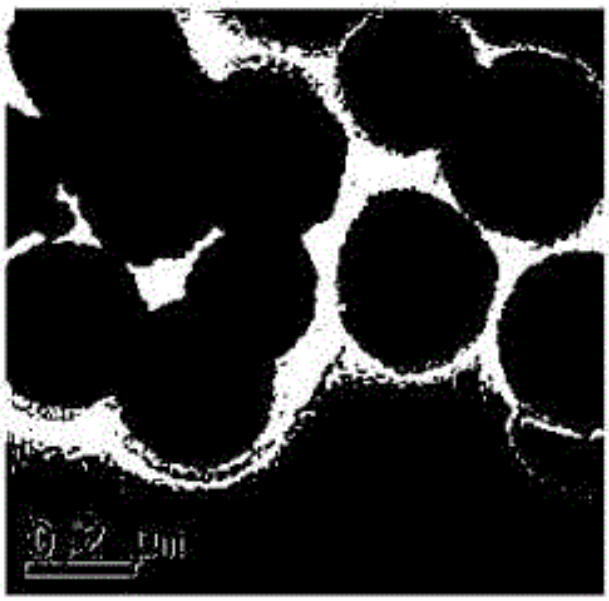


21: 2023/02225. 22: 2023/02/22. 43: 2023/05/22
51: A23L
71: Central South University of Forestry and Technology
72: XIE Lianwu, GUO Yaping, YUAN Deyi, DENG Huiyun, ZHONG Yujun, LI Zhiyang

54: METHOD FOR QUICKLY REMOVING CAFFEINE FROM BEVERAGE

00: -

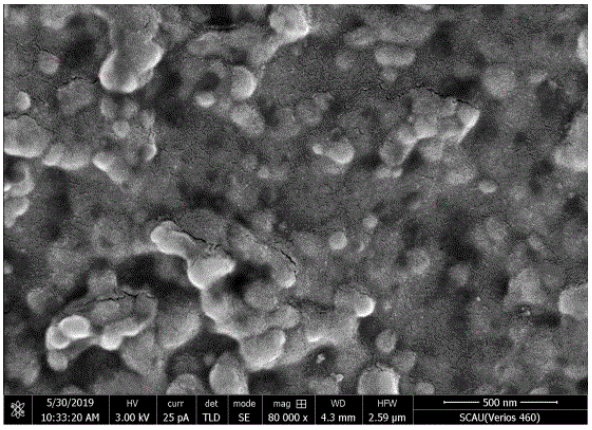
The invention discloses a method for quickly removing caffeine from drinks. Using surface molecularly imprinted technology, using caffeine as template molecule, alpha-methacrylic acid as functional monomer, ethylene glycol dimethacrylate as cross-linking agent and azoisobutyronitrile as initiator, mesoporous SiO2 surface molecularly imprinted microspheres were prepared. The prepared molecularly imprinted microspheres were used as solid-phase extraction materials, which were sealed in mixed fiber filter bags, and then the caffeine in drinks was quickly removed before drinking. The method is not only convenient and rapid, but also has no influence on other active ingredients, therefore, the invention not only eliminates the complicated process of caffeine removal in the production process, but also reduces the production cost, and can ensure the original quality of the beverage.



21: 2023/02226. 22: 2023/02/22. 43: 2023/05/22
51: A01N
71: South China Agricultural University, Institute of Environment and Plant Protection, Chinese Academy of Tropical Agricultural Sciences, Guangzhou Jinnong Technology Development Co., Ltd.
72: Zhixiang ZHANG, Ruifei WANG, Chao YAN, Qun ZHENG, Yongqing WANG, Hanhong XU, Changan HUANG

54: A PH-SENSITIVE RESPONSIVE CONTROLLED-RELEASE PESTICIDE FORMULATION FOR YOUNG FRUIT WOUND LIQUID AND ITS PREPARATION METHOD

00: -
This invention discloses A pH-sensitive responsive controlled-release pesticide formulation for young fruit wound liquid, including chitosan, acid reagent, pesticide active ingredient, crosslinking agent solution, carboxymethyl chitosan solution, and emulsion; The preparation method: (1)The raw materials are weighed; (2) Chitosan is dissolved in the acid reagent and then mixed with the pesticide active ingredient; (3) The cross-linking agent solution is added and mixed for reaction. (4) Carboxymethyl chitosan solution is added to the mixed solution B obtained by step (3) while stirring, and then the pH value of the solution is adjusted to 4~7, the reaction is stirred and then centrifuged, the pesticide nanoparticles are obtained after freeze-drying. (5) The pesticide nanoparticles are added to the emulsion and mixed evenly. The pesticide nanoparticles in the pesticide preparation of the invention have small particles, high dispersion, excellent anti-photolysis, and acid-release properties, and the preparation method is simple and reproducible.

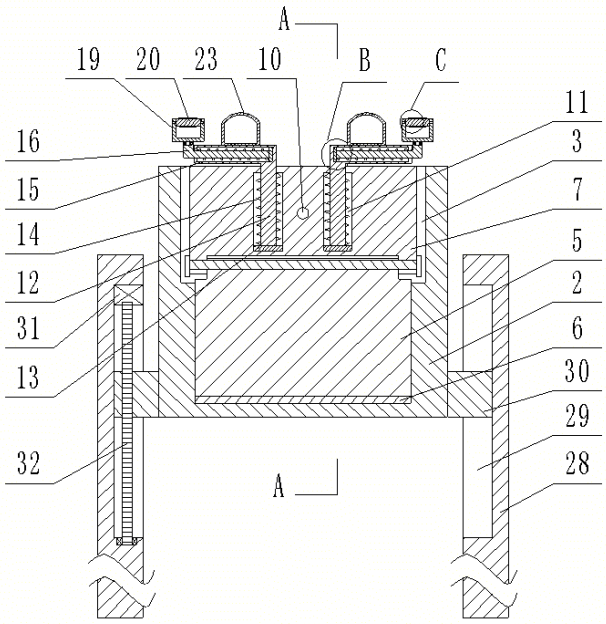


21: 2023/02227. 22: 2023/02/22. 43: 2023/05/19
51: A61H; A63B
71: Affiliated Hospital of Beihua University
72: ZHENG Shiyu

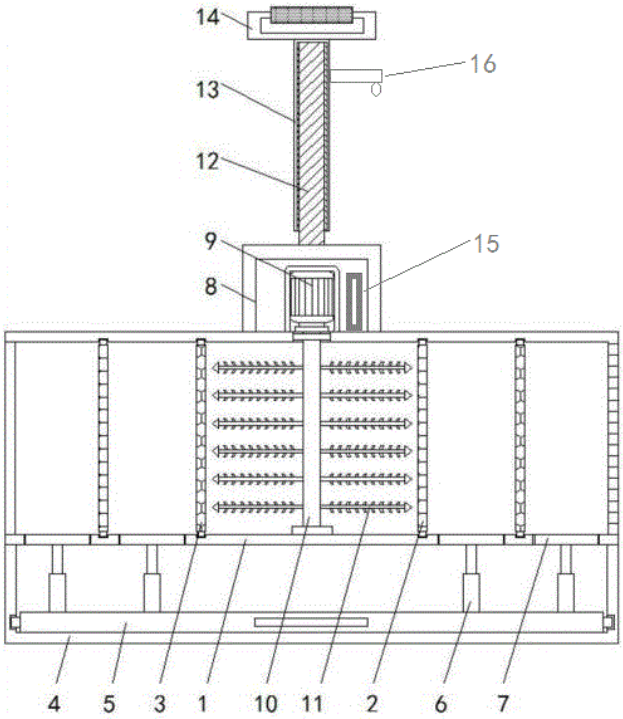
54: CLINICAL EXERCISE DEVICE FOR CARDIOVASCULAR MEDICINE DEPARTMENT

00: -
The present invention provides the following scheme: a clinical exercise device for cardiovascular medicine department comprises a bed body, wherein a lifting component is installed at one end of the bed body, a placing plate is installed at the moving end of the lifting component, and a chute is opened at the top of the placing plate, and two limit blocks are fixedly connected to the side wall of the chute; a limit plate and a sliding plate are slidably connected in the chute, the top of the limit plate is fixedly connected with the bottom of a support plate, the top of the support plate is rotatably connected with the bottom of the sliding plate, the limit block is located on the sliding plate and the limit plate, and the placing plate is provided with a positioning component detachably connected with the sliding plate; the sliding plate is provided with two first telescopic rods arranged in parallel, the telescopic ends of the first telescopic rods are provided with a second telescopic rod perpendicular to the first telescopic rods, and the two second telescopic rods are arranged away from each other, and the telescopic ends and the fixed ends of the second telescopic rods are respectively provided with a

handle component and a pedal component. The invention can exercise arm muscles and leg muscles, and can be stored and placed, thus reducing the occupied area and improving the convenience of use of the device.

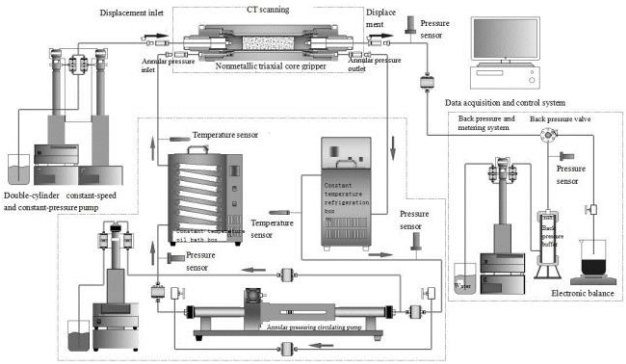


21: 2023/02228. 22: 2023/02/22. 43: 2023/05/19
51: E02F
71: Beibu Gulf University
72: DENG Shaoyun, QIU Qinghua
54: COLLECTION MECHANISM OF A CLEANING DEVICE FOR RIVER GARBAGE TREATMENT
00: -
The utility model relates to the technical field of rivers, in particular to a collection mechanism of a cleaning device for river garbage treatment. And it comprises a fixed box, and a collection adjusting component is arranged on the fixed box; The collection adjusting component comprises a baffle and a mesh plate located inside the fixed box, wherein the bottom of the fixed box is fixedly connected with a centralized collection bin; The inside of the centralized collection bin is slidably connected with a movable plate, and the top of the movable plate is fixedly connected with a hydraulic cylinder, and the output shaft of the hydraulic cylinder is fixedly connected with a fixed plate, According to the collection mechanism of a cleaning device for river garbage treatment, through the collection adjusting component arranged on the fixed box, it is convenient for the device to adjust the depth of entering the river to collect or filter the garbage or sand at the bottom of the river by adjusting the length of the device. When in water, it is not convenient to adjust the height of the device according to the height of the water source, resulting in that the device cannot enter the bottom to clean the garbage and sand deposited at the bottom during cleaning.

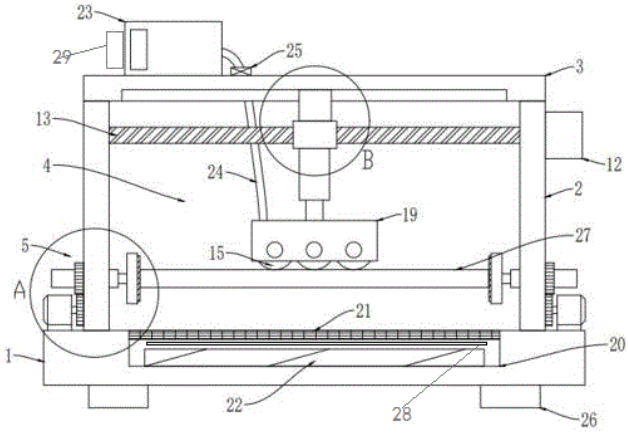


21: 2023/02229. 22: 2023/02/22. 43: 2023/05/19
51: G01N
71: Taiyuan University of Science and Technology
72: XIE Jianlin, MENG Tao, LIANG Xufeng, ZHANG Dengke, ZHAO Guanghui
54: SOLID PRESSURE TRANSMISSION AND COMPUTER TOMOGRAPHY COOPERATIVE DISPLACEMENT SYSTEM
00: -
The invention discloses a solid pressure transmission and CT cooperative displacement system, which belongs to an experimental system for testing rock mechanical properties. On the basis of CT scanner, rock samples are measured online during displacement. A solid pressure transmission and CT cooperative displacement system comprises an injection system, a model system, a production metering system, a data acquisition and automatic control system; the injection system is used for pumping saturation, fluid injection and real-time

pressure monitoring of rock samples during displacement testing; the model system is used for triaxial loading and heating of rock samples; the production metering system is used for metering the displacement outlet fluid; the data acquisition and control system carries out automatic data acquisition and equipment control. The solid pressure transmission and CT cooperative displacement system provided by the invention can successfully monitor the mechanical response and failure characteristics of rock samples in the in-situ state (temperature field, physical field and chemical field), and monitor the evolution law of microscopic structures such as internal structures, pores and fractures and mineral components of the samples in real time.



21: 2023/02232. 22: 2023/02/22. 43: 2023/05/19
51: B05C
71: Beibu Gulf University
72: DENG Shaoyun, QIU Qinghua
54: EFFICIENT BRUSHING DEVICE
00: -
The utility model discloses an efficient brushing device, which comprises a base, wherein two side ends of the base are provided with lateral plates, and a supporting plate is provided on the lateral plate; A movable uniform brushing component is arranged under the supporting plate, and a turnover type clamping and fixing component is arranged on the lateral plate. The utility model belongs to the technical field of brushing devices, in particular to an efficient brushing device which can firmly clamp and fix steel, turn the fixed steel over, and conveniently paint all surfaces of the steel evenly.

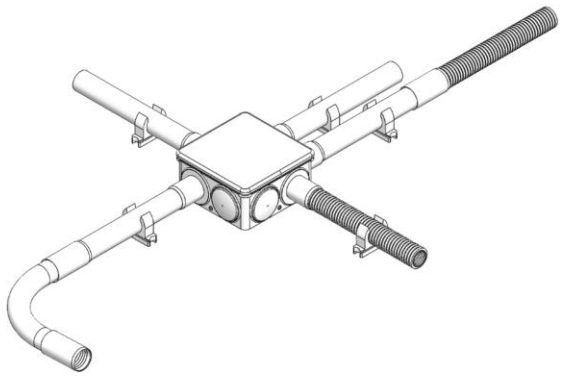


21: 2023/02237. 22: 2023/02/22. 43: 2023/05/19
51: A61K; A61P
71: Ran Yao, Guofu Guan, Lican Yao
72: Ran Yao, Guofu Guan, Lican Yao
54: PRESCRIPTION FOR TREATING PROSTATE CANCER
00: -
The invention discloses a prescription for treating prostate cancer, comprising the following compositions: 4 times-dropped maitake mushroom D, NK natural killer cytokines, high content medical grade long-acting vitamin C, compound saw palmetto extract essence, choline-inositol capsules, compound vitamin mineral tablets, compound MGC7 mushroom, compound prostate nutrients, and chlorella. The prescription of the invention can treat various types including precancerous prostate cancer, and the therapeutic effect is remarkable; in particular, it is also applicable to the treatment of prostate cancer including middle and advanced stages, with a wide range of treatment, a short course of treatment and few side effects; moreover, the invention can not only treat prostate cancer with chemotherapeutic drugs, but also be used for prostate cancer chemotherapy or postoperative prognosis treatment, with good prognosis effect and can greatly reduce the pain of patients.

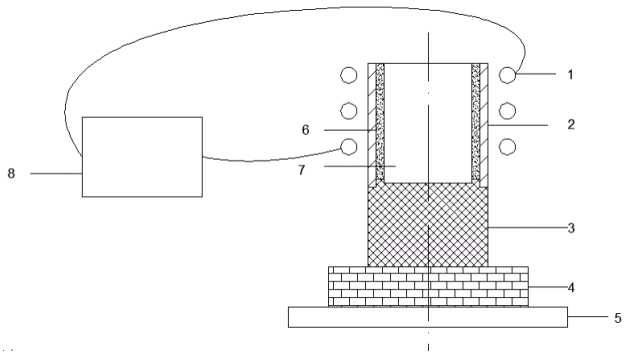
21: 2023/02238. 22: 2023/02/22. 43: 2023/05/19
51: A61K; A61P
71: Ran Yao, Guofu Guan, Lican Yao
72: Ran Yao, Guofu Guan, Lican Yao
54: A PRESCRIPTION FOR TREATING ESOPHAGEAL CANCER
00: -
A prescription for treating esophageal cancer, which consists of long-acting mineral vitamin C, compound

maitake mushroom extract, DIM, Annona squamosa extract, compound vitamin and mineral tablets, compound MGC7 mushroom extract, compound organic fruit extracts, IP6, whole-system health nutrients, resveratrol and grape seed extract mixture, coenzyme Q10, NAD. The prescription of the invention can be applied to the treatment of the whole stage of esophageal cancer including the middle and late stage, and the treatment range is wide, and the course of treatment is short, and the side effect is small; moreover, the invention can not only be used in combination with chemotherapy drugs to treat esophagus, but also can be used for chemotherapy or postoperative prognosis and treatment of esophageal cancer, the prognosis is good, and can greatly reduce the suffering of patients.

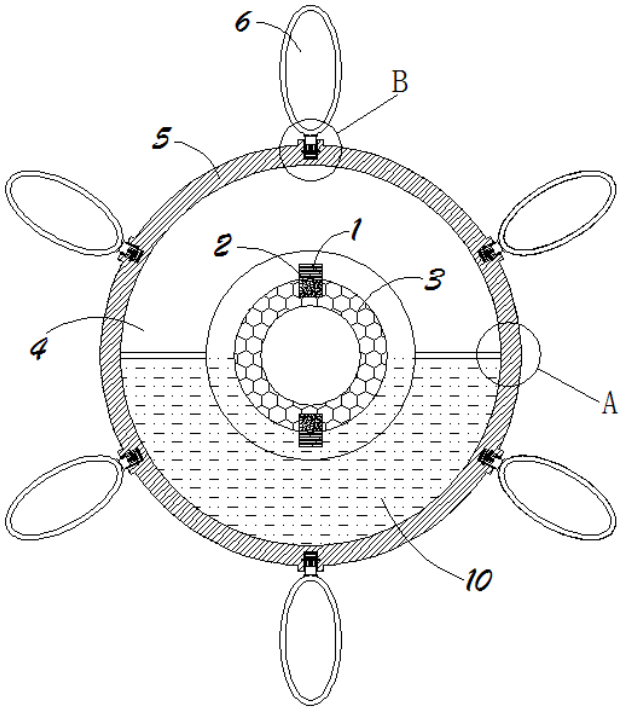
21: 2023/02239. 22: 2023/02/22. 43: 2023/05/26
51: H01B; H02G
71: EMM. KOUVIDIS SA
72: KOUVIDIS, Konstantinos
33: GR 31: 20230100079 32: 2023-02-10
54: SYSTEM OF THERMOPLASTIC CONDUITS, JUNCTION BOXES AND FITTINGS FOR ELECTRICAL INSTALLATIONS THAT PROVIDES PROTECTION AGAINST SURFACE WEAR
00: -
A component of a system and a system of plastic conduits, junction boxes and fittings for electrical installations including rigid single-layer and multi-layer conduits (1), pliable corrugated single-layer and multi-layer conduits (2), corrugated double wall conduit for underground and overhead networks, (3), coupler (4), single-layer and multi-layer bends (5), clip (6), junction box (7), cover of junction boxes (8), plug-in seal of junction boxes (9), spout adaptor of junction boxes (10). The component is made of a thermoplastic material that comprises a polymer and an additive with an anti-scratch/mar active ingredient which provides increased protection against mechanical wear of the component surface when compared with the mechanical wear of a similar component made of the same polymer without the additive. The increased protection against mechanical wear is assessed via measurement of the indentation depth, the class of anti-scratch behavior, the critical nominal load or the friction coefficient.



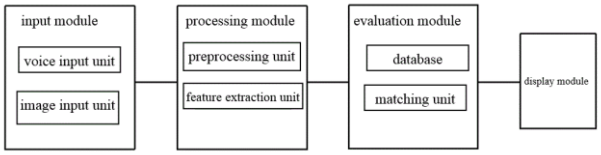
21: 2023/02264. 22: 2023/02/22. 43: 2023/05/19
51: C23C
71: Shenyang University of Technology
72: ZHUANG, Siming, ZHANG, Chunhua, HAN, Xue, DU, Yi, WU, Chenliang, ZHANG, Song
54: A MATERIAL AND METHOD FOR INDUCTION CLADDING RARE EARTH MODIFIED NICKEL BASE ALLOY COATINGS
00: -
The invention relates to a material and a method for induction cladding rare earth modified nickel base alloy coating. The ultrasonic frequency induction heating power supply was used for the induction cladding of nickel-based alloy powder mixed rare earth oxide La2O3. A rare earth modified nickel base alloy coating with certain thickness was successfully prepared on the cylindrical surface of C45E4 steel rod-like workpiece by induction cladding technology. There is a strong metallurgical bond between the coating and C45E4 steel substrate, and there are no defects such as incomplete fusions and cracks in the coating. Induction cladding technology can effectively avoid the decrease of coating hardness and wear resistance caused by dilution rate and microstructure coarsening, effectively improve the hardness, wear resistance and corrosion resistance of C45E4 steel, and play a long-term protection effect on C45E4 steel substrate, and extend the service life of mechanical components of C45E4 steel.



21: 2023/02280. 22: 2023/02/22. 43: 2023/05/22
51: G01P
71: Guangdong Ocean University
72: PANG Jianhua, ZHONG Linsen, ZHANG Jiwei, CHEN Hui, ZHONG Yinghao, ZHANG Feihu, WU Zongduo, WANG Wei, PAN Xinxiang
33: CN 31: 202110734761X 32: 2021-06-30
54: ROLLER TYPE SOLID-LIQUID CONTACT WIND SPEED SENSOR BASED ON FRICTION NANO-GENERATOR
00: -
The invention provides a roller-type solid-liquid contact wind speed sensor based on a friction nano-generator, comprising: a rotating shaft with a hollow structure in the middle as a whole, a cover with a circular structure as a whole, a low magnetic block fixedly installed at that open position outside the shell body, limit holes arranged at the symmetrical position of the inner wall at the opening position outside the shell main body, the air cups detachably installed outside the shell main body, the first metal layer fixedly electroplated on that surface of the inner wall of the shell main body, dielectric layer uniformly arranged on that out surfaces of the first metal layer and the second metal layer, and deionized water. The roller-type solid-liquid contact wind speed sensor based on the friction nano-generator adopts a novel structural design, so that the pulse current generated by the friction nano-generator is positive, so the output is direct current, and the size can be flexibly designed as required, so that the device can be widely used in the fields of ship engineering and marine meteorology.



21: 2023/02302. 22: 2023/02/23. 43: 2023/05/19
51: G06F
71: XUZHOU COLLEGE OF INDUSTRIAL TECHNOLOGY
72: HAN Shanhua
54: INTELLIGENT LEARNING SYSTEM FOR ENGLISH PHONETIC SYMBOLS
00: -
The invention provides an intelligent learning system of English phonetic symbols, which comprises an input module, a processing module, an evaluation module and a display module; the input module, used for inputting voice signals and image information of the mouth; the processing module, used for preprocessing the input voice signal and the image information, and extracting feature parameters from the preprocessed voice signal and the image information; the evaluation module, used for evaluating the feature parameters extracted by the processing module according to the standard voice feature parameters and the standard image feature parameters to obtain the evaluation results of the English phonetic alphabet; the display module, used for displaying the evaluation results. The invention can effectively analyze and feedback the pronunciation learning of phonetic symbols, and guide learners to improve the pronunciation accuracy of phonetic symbols, thus improving the oral English level.

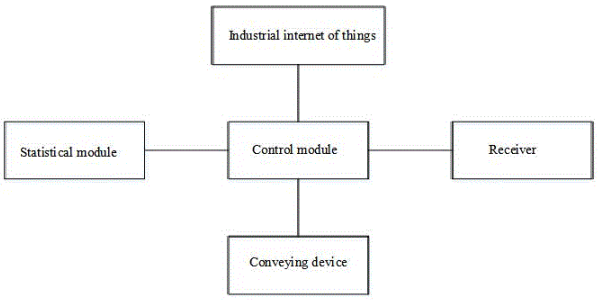


21: 2023/02303. 22: 2023/02/23. 43: 2023/05/19
51: G06Q
71: TANGSHAN UNIVERSITY
72: GUO Yaohua, MA Junshuang

54: INTELLIGENT CONTROL SYSTEM FOR INDUSTRIAL MATERIAL DISTRIBUTION

00: -

The invention discloses an intelligent control system for industrial material distribution, which comprises a statistical module, a conveying device, an industrial internet of things, a control module and a receiving module; The control module is respectively connected with the statistical module, the conveying device, the industrial Internet of Things and the receiving module; Wherein the storage information of industrial materials is obtained through a statistical module; Obtaining obstacle information in the distribution scene through the industrial Internet of Things; According to the storage information and obstacle information of industrial materials, the control module carries out path planning for the transport device, transports industrial materials according to the path planning results, receives the transported industrial materials through the receiving module, and transmits the receiving results to the control module to realize intelligent distribution of industrial materials.

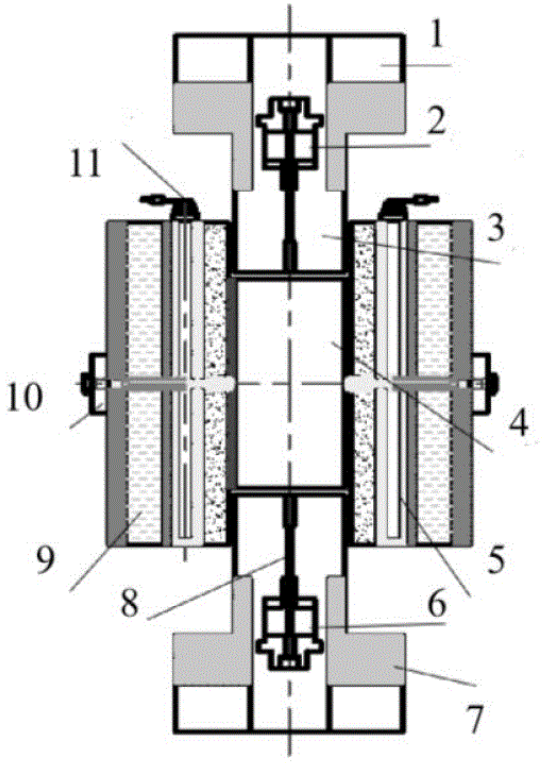


21: 2023/02304. 22: 2023/02/23. 43: 2023/05/19
51: G01N
71: Taiyuan University of Science and Technology
72: MENG Tao, LIANG Xufeng, ZHANG Dengke, ZHAO Guanghui

54: UNIFORM APPLICATION DEVICE FOR MEASURING TOTAL STRAIN OF ROCK UNDER HIGH-TEMPERATURE AND HIGH-PRESSURE CONDITION

00: -

Accurate prediction of deformation parameters and pore structure evolution (axial and radial strain) of rock materials under in-situ (real-time high-temperature and high-pressure) conditions is an essential exploration link in deep geotechnical engineering. However, due to the complex geological environment of high-temperature (> 500 degree Celsius) and high-pressure (> 20 MPa), the uneven deformation of rocks will increase the accurate measurement of mechanical parameters of rocks in situ. Based on this limitation, the invention designs a clamping device which can uniformly apply environmental pressure, including five subsystems: an environmental pressure system, a data acquisition system and an automatic control system. The beneficial results of the invention are as follows: by arranging four crescent-shaped uniform pressure transmission devices around the core, the interference of local deformation on the acquisition of radial strain data of rocks is effectively reduced, and the maximum temperature that the devices can bear is 600 degree Celsius, and the maximum confining pressure is 60 MPa; by detecting the cumulative propagation volume and permeability rate of pore pressure fluid, the evolution law of meso-pore structure of rock under in-situ conditions is obtained. The device can accurately measure the relevant mechanical parameters of rocks under in-situ conditions, and provide design parameters and theoretical basis for the safety design and stability evaluation of underground engineering.

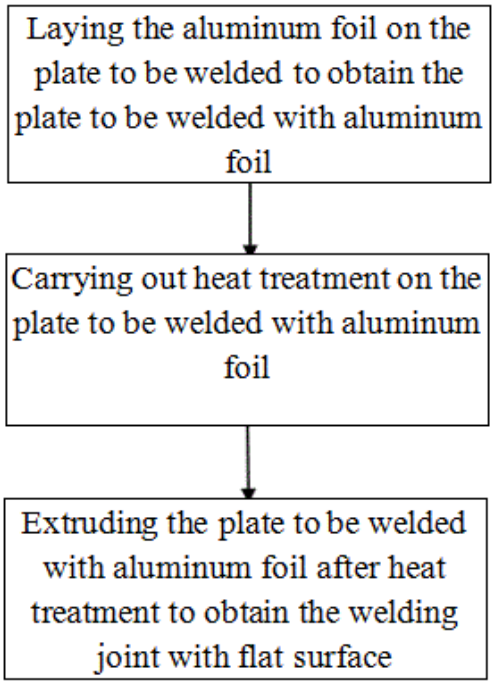


21: 2023/02305. 22: 2023/02/23. 43: 2023/05/19
51: B23K
71: Northwestern Polytechnical University, Shanghai Aerospace Equipments Manufacturer Co., Ltd.
72: TANG Huawei, LI Wenya, ZOU Yangfan, CUI Fan

54: METHOD FOR REMOVING SURFACE DENT OF REFILL FRICTION STIR SPOT WELDING JOINT

00: -

The invention relates to a method for removing surface dent of refill friction stir spot welding joint, which comprises the following steps: selecting the plate to be welded, determining a welding target area of the plate to be welded, and carrying out pretreatment on the welding target area; laying hot stamping materials on the welding target area to obtain the area to be welded with the hot stamping materials; and processing the area to be welded to obtain a welding spot with a flat surface, and detecting the flatness of the welding spot. According to the invention, the aluminum foil with a certain thickness is added on the upper surface of the welding target plate, and the surplus part is torn off after welding, so that the surface dent of the refill friction stir spot welding joint is improved, the height difference of the welding spot surface is reduced, and the mechanical property, corrosion resistance and service life of the joint are improved. The method has the advantages of simple process, high production efficiency and easy batch production and application.



21: 2023/02306. 22: 2023/02/23. 43: 2023/05/19
51: A61K
71: Institute of Chinese Materia Medica, China Academy of Chinese Medical Sciences
72: ZHAO Xiaoang, JIN Rixian, TIAN Jixiang, ZHANG Dong, LIU Ting, ZHAO Chunhui, ZHANG Haijing, YANG Yifei, YANG Weipeng

54: MEDICINAL PLANT EXTRACT, PREPARATION AND APPLICATION THEREOF

00: -

The invention relates to a medicinal plant extract, a preparation and an application thereof. The invention also relates to a pharmaceutical composition containing the total extract. The invention uses one or more technological methods such as solvent extraction, solvent extraction, resin adsorption and the like to prepare the total extract of compound Zhichigan, and makes the total extract into internal dosage forms for oral administration, injections and external dosage forms for non-oral administration, such as powder, granules, tablets, capsules, pills, suppositories, intestinal solvents, injections, syrups,

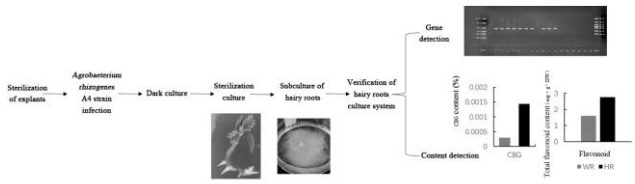
emulsions, suspensions, tinctures, ointments and external dosage forms. The total extract of the invention may be used for treating mental system diseases such as neurasthenia, anxiety and depression, and diseases such as gastritis, gastric ulcer, hypomnesis, senile dementia, climacteric syndrome, osteoporosis, insomnia, hepatitis, coronary heart disease, hyperlipidemia, hypertension and the like.

21: 2023/02307. 22: 2023/02/23. 43: 2023/05/18
51: A01G; C12N
71: INSTITUTE OF CHINESE MATERIA MEDICA CHINA ACADEMY OF CHINESE MEDICAL SCIENCES, Shandong Shuangda Biotechnology Co, Ltd
72: DONG Linlin, LIU Lanlan, DONG Xu, ZHOU Yuxin

54: TRANSGENIC HAIRY ROOT CULTURE SYSTEM OF INDUSTRIAL HEMP

00: -

The invention establishes a culture system of industrial hemp hairy roots by using Agrobaeterium rhizogenes without adding any hormones, and belongs to the technical field of plant tissue culture. Specifically, it includes the following steps: taking the intact seedlings of industrial hemp seeds on the 5th day as explants, infecting their stem segments with A4 strain, co-culturing and degerming to obtain hairy roots, and identifying them as transgenic hairy roots by PCR, with the induction rate of 42.86 percent and the growth rate of subculture of 0.9 gram per day. The content of CBG in hairy roots is detected by HPLC-MS, and the CBG content is 375.99 percent higher than that of wild type. The content of total flavonoids is 2.75 milligram per gram DW, 72.08 percent higher than that of wild type, and the content of total phenols is 25.42 micromole per gram DW. The induction of hairy roots in the invention has the characteristics of high induction rate, vigorous growth, extremely short culture period, simple conditions, high component content, simple explant source, easy operation, low cost, etc. The generation of hairy roots shortens the planting period of industrial hemp, reduces time and cost, and provides chassis materials for the production of effective components, so that the production of effective components is not limited by planting.



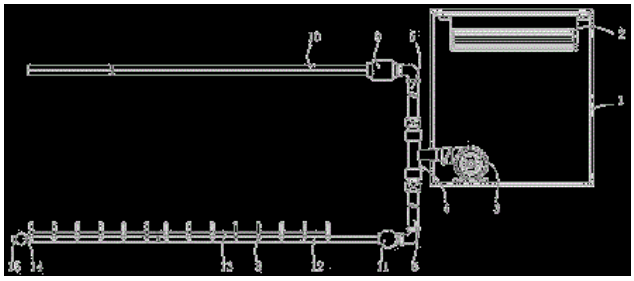
21: 2023/02308. 22: 2023/02/23. 43: 2023/05/18
51: A01G
71: Anhui Academy of Agricultural Sciences Institute of Fisheries
72: JIANG Yelin, CHEN Zhu, Krishna R.Salin, Isagani P. Angeles Jr, Yew-Hu CHIEN, WANG Fen, WANG Ling, JIANG Jingling, Thay Somony, Lumpan Poolsawat, SONG Guangtong, ZHOU Xiang, HOU Guanjun, XU Xiaona, JI Suofei, WANG Jiajia, ZUO Lin, XU Bin, ZHANG Kelai, ZHANG Ye, SU Youfeng, ZHANG Yu, SHAO Lin, LI Hu, LI Zhi, Meng-Chou Lee, Phyo Sandi, Le Viet Dung, Mohaddeseh Mousavi, Muhammad Saleem Chang, LIN Zuokun, CHEN Yongmei

54: TEMPERATURE REGULATING DEVICE FOR FISH-PLANT SYMBIOSIS SYSTEM

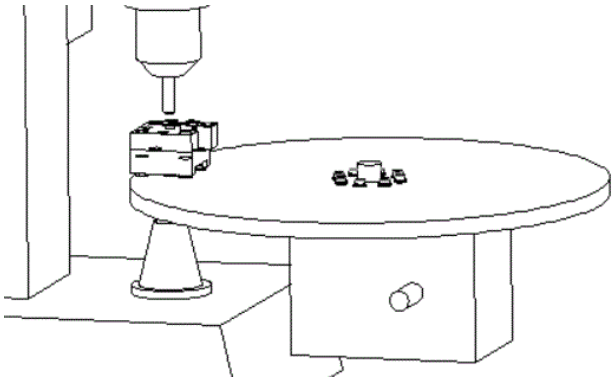
00: -

The invention provides a temperature regulating device for fish-plant symbiosis system, which comprises a temperature control box; a temperature control device, which is fixedly installed at the top of the inner wall of the temperature control box; an exhaust fan, which is fixedly installed at the bottom of the inner wall of the temperature control box, and the output end of the exhaust fan is communicated with a three-way pipe, both ends of which are located outside the temperature control box and are respectively communicated with a first conveying pipe and a second conveying pipe. The temperature regulating device for fish-plant symbiosis system provided by the invention is more convenient for regulating the temperature of the vegetable growth environment and the water body through one system; and by arranging the adjusting sealing devices in the first connecting pipe and the gas transmission pipe, the air flow can be uniformly discharged through the exhaust hole, so that the air flow can quickly fill the whole planting environment, and the temperature of the planting environment can be quickly adjusted; and by arranging a plurality of conductive pipes and a plurality of conductive assemblies, the contact area with the liquid can be increased, the conduction efficiency can be

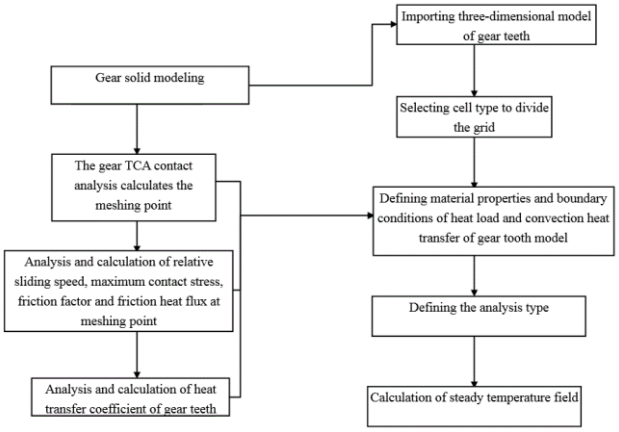
improved, and the water temperature can be quickly adjusted.



21: 2023/02309. 22: 2023/02/23. 43: 2023/05/18
51: B21J
71: ShanDong JiaoTong University
72: YAN Yongzeng
54: DEVICE AND METHOD FOR OFFSETTING PUNCHING FORCE IN RIVETING PROCESS OF PIN BLOCK
00: -
The invention discloses a device and a method for offsetting punching force in riveting process of pin block. The device comprises an upper carrier, a lower carrier, a force transmission shaft, a spring, an oil-free bushing, a hard limit and a rotating disk. The upper carrier, the force transmission shaft and the lower carrier are fixedly connected together to form a carrier body, and the force transmission shaft can move up and down without the restriction of an oil-free bushing. The carrier body and the rotating disk are loosely connected by screws, and there is a movable gap between them. A spring is installed at the optical axis of the screw to bounce the carrier body. A hard limit is arranged below the force transmission shaft. The invention is suitable for protecting the power rotary mechanism of the rotating disk and improving the service life and reliability of the equipment when there is stamping in the assembly line of the rotating disk.



21: 2023/02310. 22: 2023/02/23. 43: 2023/05/18
51: G06F
71: Fuzhou University
72: YAO Ligang, CHEN Ying, WANG Zhenya, LI Gaosong, WANG Xingsheng, ZHANG Dawei, DONG Wenqiang
54: SIMULATION METHOD OF TEMPERATURE FIELD IN NUTATION DRIVE OF DOUBLE CIRCULAR ARC SPIRAL BEVEL GEAR
00: -
The invention provides a simulation method of temperature field in nutation drive of double circular arc spiral bevel gear, which comprises the following steps: S1, making a gear meshing model; S2, according to the tooth surface contact analysis principle TCA, finding the contact point on the tooth surface of the double circular arc spiral bevel gear; S3, calculating relative sliding speed, maximum contact stress and tooth surface friction factors; S4, calculating the interpolation function of q; S5, discretizing the convex tooth surface and the concave tooth surface of the meshing surface into a contact meshing area; S6, calculating a command stream; S7, calculating the convection heat transfer coefficient h of different surfaces of the gear; S8, finally, calculating the temperature field of the double circular arc spiral bevel gear based on nutation transmission. The technical scheme innovatively introduces the principle of gear TCA contact analysis and APDL language programming into the simulation analysis of temperature field. This method has the advantages of simplicity, high efficiency and small memory occupation.

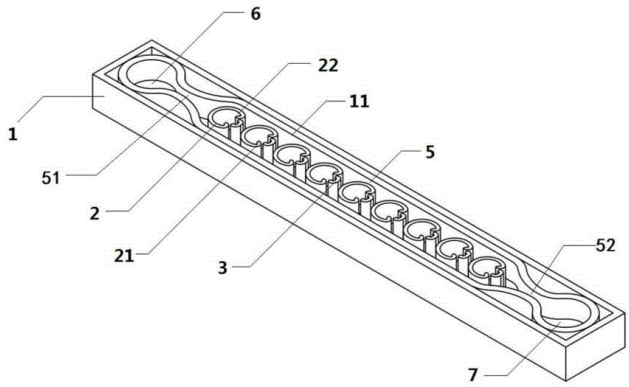


21: 2023/02312. 22: 2023/02/23. 43: 2023/05/19
51: C12M
71: Zhejiang University
72: Rao Jinpeng, Feng Chun, Jin Min, Jin Fan, Yu Ya
33: CN 31: 2022210835375 32: 2022-05-07

54: SPERM COUNTERCURRENT HUNTING DEVICE

00: -

The utility model discloses a sperm countercurrent hunting device. And the sperm countercurrent trapping device comprises a dish body, wherein an injection pool and an outflow pool are respectively arranged on the dish body, and the injection pool and the outflow pool are communicated through a horizontal laminar flow channel; And the horizontal laminar flow channel is provided with a sperm hunting structure for catching high-motility sperms reversely flowing from liquid flow in the horizontal laminar flow channel; The sperm hunting structure comprises a sperm hunting cavity, the sperm hunting cavity is provided with a sperm inlet facing the outflow pool; The sperm inlet is communicated with the horizontal laminar flow channel and the sperm hunting cavity; And the sperm hunting cavity is also provided with a sperm collecting opening, so that high-motility sperm enriched in the sperm trapping cavity can be collected at a fixed point, and the collection efficiency is high. Therefore, the specific gathering position of high-quality sperms is clear in the microfluidic chip used for separating and screening high-motility sperm, the collection efficiency of high-quality sperms is greatly improved.

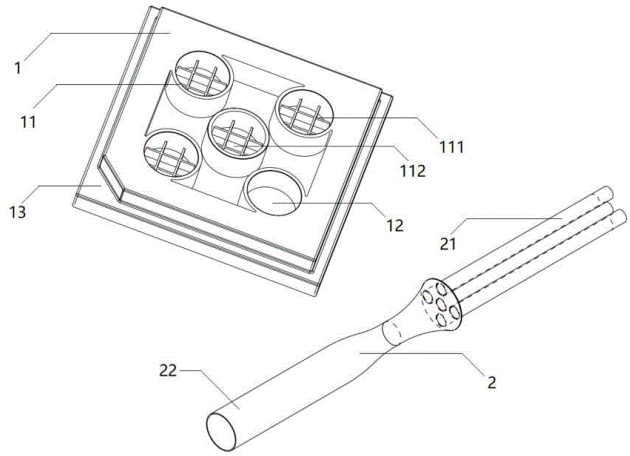


21: 2023/02313. 22: 2023/02/23. 43: 2023/05/19
51: C12M
71: Zhejiang University
72: Rao Jinpeng, Feng Chun, Jin Min, Jin Fan, Yu Ya
33: CN 31: 2022212580614 32: 2022-05-24

54: OOCYTE-CORONA-CUMULUS COMPLEX GRANULOSA CELL LOOSENING DEVICE

00: -

The utility model discloses an OCCC granulosa cell loosening device, and the device comprises a dish body and a blowing and sucking pipe; The dish body comprises dish cavities, wherein each dish cavity has at least two dish chambers, and each dish chamber is used for separately placing an OCCC; And the blowing and sucking pipe comprises a main pipe and at least two air outlet pipes, one end of each air outlet pipe is communicated with one end of the main pipe, the other end of the main pipe is used for connecting an air source; and the other end of each air outlet pipe corresponds to part or all of the dish chambers in a dish cavity one by one, so as to simultaneously blow some or all of the dish chambers in a dish cavity. Therefore, the device solves the problems of the prior art, which is the granulosa cells from different OCCCs in conventional in-vitro fertilization are easy to adhere to each other, thus affecting the operation efficiency of granulosa cell removal from OCCC and the subsequent success rate of in-vitro fertilization. And the device achieved the following beneficial effects, including higher penetrating efficiency of sperm through zona pellucida of oocyte, easier removal of granulosa cells, higher in-vitro operation efficiency and improved in-vitro fertilization success rate.

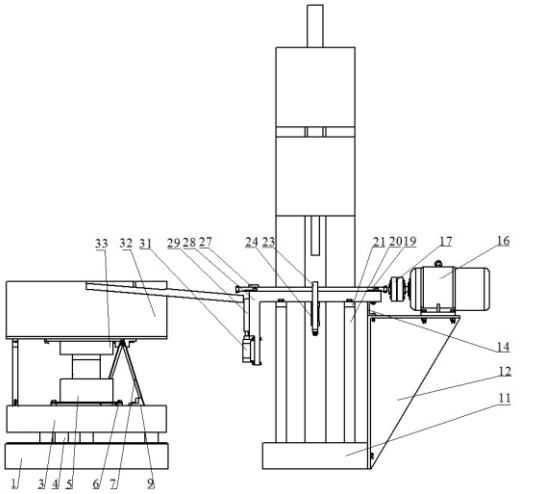


21: 2023/02315. 22: 2023/02/23. 43: 2023/05/19
51: B23P
71: QINGDAO UNIVERSITY OF TECHNOLOGY
72: WU Ningning, FENG Mingteng, LI Haolei, HAN Zongjie, LIU Shankao, LI Zhenxiao

54: AUTOMATIC PROCESSING DEVICE FOR BOLTS

00: -

The invention discloses an automatic processing device for bolts, which comprises a drilling machine body, wherein a conveying mechanism is arranged in the drilling machine body; the conveying mechanism comprises a rail which is in transmission connection in the drilling machine body; one end of the rail is in transmission connection with a driving part; the end of the rail far from the driving part is in transmission connection with a feeding mechanism; the feeding mechanism comprises a base; the top surface of the base is in transmission connection with a vibrating part; the top surface of the vibrating part is fixedly connected with a top tray cylinder; the inner wall of the top tray cylinder is provided with a spiral material groove; and the top tray cylinder is communicated with the rail. The invention can realize the automatic production of the drilling machine on the basis of reducing the reconstruction cost, reduce the manual labor, realize the automatic processing of the bolt top hole in combination with the needs of the factory, realize the accurate positioning of the drilling machine control, and reduce the bolt movement and processing error.

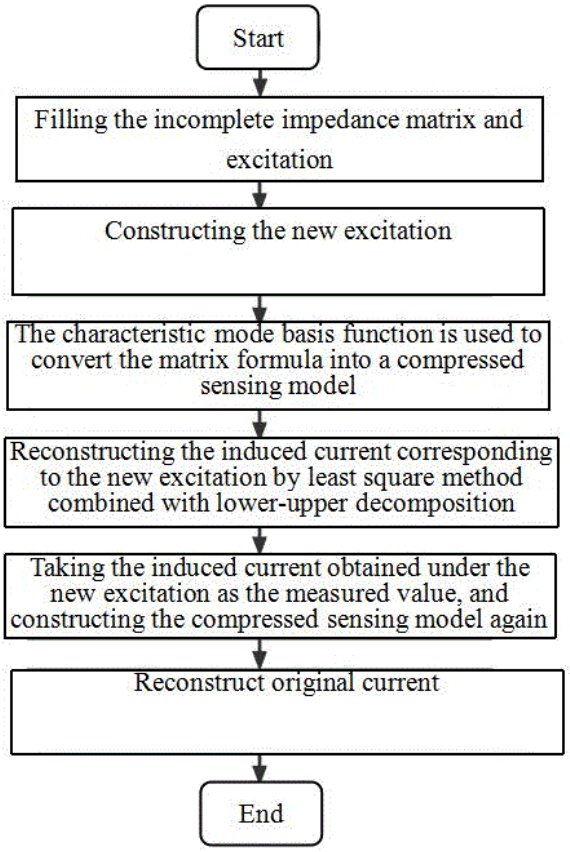


21: 2023/02316. 22: 2023/02/23. 43: 2023/05/19
51: G01S; G06N
71: SUZHOU UNIVERSITY
72: GAO Yalan, XU Xu, PAN Zhenggao, JIANG Fei, LI Songzhou, WANG Mengyu

54: DOUBLE-LAYER COMPRESSED SENSING METHOD FOR RAPIDLY SOLVING BISTATIC ELECTROMAGNETIC SCATTERING PROBLEM

00: -

The invention discloses a double-layer compressed sensing method for rapidly solving the bistatic electromagnetic scattering problem, which relates to the field of electromagnetic numerical calculation and can effectively improve the solving efficiency of a three-dimensional target bistatic electromagnetic scattering problem. Firstly, a new excitation source is constructed, and the matrix equation is transformed into a compressed sensing model by using the characteristic mode as the sparse basis. Then, the least square method combined with LU decomposition technology is used to accelerate the solution of the induced current corresponding to the new excitation source. Finally, the induced current corresponding to the new excitation source is taken as the measured value, and the compressed sensing model is constructed again to solve the original current. The method provided by the invention provides a new solution for solving the bistatic electromagnetic scattering problem of a three-dimensional target by the method of moments based on compressed sensing, and the calculation efficiency is obviously improved while ensuring the accuracy.

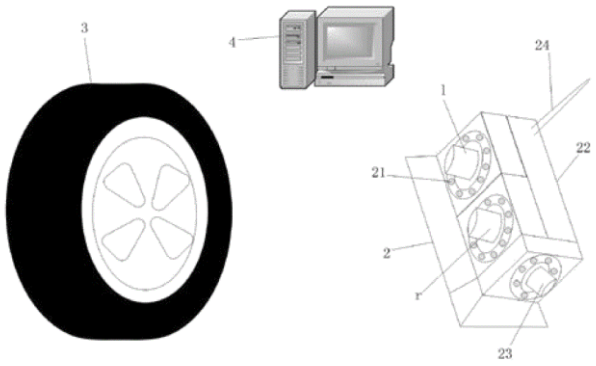


21: 2023/02317. 22: 2023/02/23. 43: 2023/05/18
51: B60S; G01B; G06T
71: Yantai University
72: BI Yuanwei

54: WHEEL SHOOTING AND MEASURING DEVICE AND MEASURING METHOD APPLIED TO FOUR-WHEEL ALIGNER

00: -

The application provides a wheel shooting and measuring device applied to a four-wheel aligner, which comprises an identification mechanism, a computer, a calibration target board and a side shooting device, wherein the side shooting device comprises a measuring camera, an auxiliary camera, an arithmetic processing unit, a data transmission unit and an LED auxiliary lighting lamp, and the measuring cameras are placed in parallel and their relative positions are fixed. The relative position of the auxiliary camera and the measuring camera is fixed. The application also provides a wheel measuring method applied to a four-wheel aligner. By using the computer vision method, the wheel hub edge is first found through image processing, and then the extracted wheel hub edge is stereo-corrected, so that the wheel hub edges extracted from the left and right view images are unified in the same plane and aligned in rows, so that the matching points of the wheel hub edge extracted from the corrected left (right) image and the wheel hub edge extracted from the corrected right (left) image are on the same row, thus realizing non-contact positioning of the wheel.

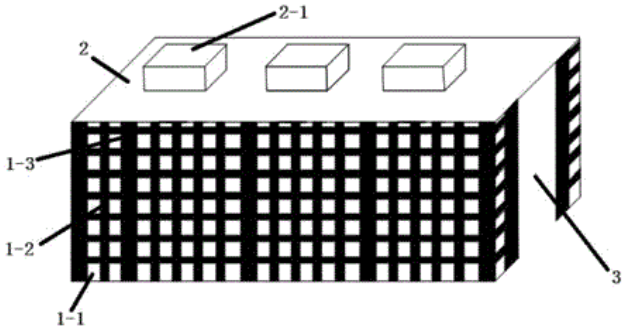


21: 2023/02318. 22: 2023/02/23. 43: 2023/05/18
51: A23B; A23N
71: Research Institute of Horticulture, Xinjiang Academy of Agricultural Sciences
72: XIE Hui, ZHANG Wen, QIN Lihuan, WANG Min, BAI Shijian, LIU Liyuan, WANG Zhiqiang, HAN Shou'an, ZHANG Yingchun, ZHOU Hui, WU Yuhua, Aiermaike Caikasimu

54: GRAPE DRYING ROOM AND DRYING METHOD

00: -

The invention relates to the technical field of agricultural product processing, in particular to a grape drying room and a drying method. The grape drying room provided by the invention comprises a hollow flower wall and a roof, and the roof is provided with a plurality of exhaust devices; The periphery of the hollow flower wall is provided with a heat preservation device. According to the invention, the ventilation effect in the drying room is improved by using the air exhaust device on the roof and the hollowed holes on the hollowed-out flower wall, the drying rate of grapes is improved, and the temperature and humidity in the drying room can be artificially controlled by cooperating with the heat preservation device, so that the drying time is shortened and the quality of raisin products is improved.

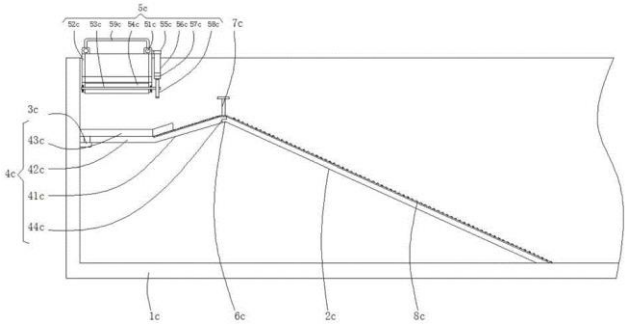


21: 2023/02319. 22: 2023/02/23. 43: 2023/05/18
51: A01G
71: Anhui Academy of Agricultural Sciences Institute of Fisheries
72: JIANG Yelin, CHEN Zhu, Krishna R.Salin, Isagani P. Angeles Jr, Yew-Hu CHIEN, WANG Fen, WANG Ling, JIANG Jingling, Thay Somony, Lumpan Poolsawat, SONG Guangtong, ZHOU Xiang, HOU Guanjun, XU Xiaona, JI Suofei, WANG Jiajia, ZUO Lin, XU Bin, ZHANG Kelai, ZHANG Ye, SU Youfeng, ZHANG Yu, SHAO Lin, LI Hu, LI Zhi, Meng-Chou Lee, Phyo Sandi, Le Viet Dung, Mohaddeseh Mousavi, Muhammad Saleem Chang, LIN Zuokun, CHEN Yongmei

54: AQUACULTURE SYSTEM BASED ON AQUAPONICS TECHNOLOGY

00: -

The invention provides an aquaculture system based on aquaponics technology, which is suitable for breeding special aquatic animals such as fish, soft-shelled turtle, turtle, shrimp, crab and the like in the aquaponics system, including: a culture pond; a climbing plate is fixed between two sides of the inner wall of the culture pond; a strip-shaped support plate is fixed on one side of the inner wall of the culture pond; a feeding plate is arranged between the climbing plate and the strip-shaped supporting plate; a feeding device is arranged between two sides of the inner wall of the culture pond. According to the special aquaculture device of the aquaponics system provided by the invention, the feeding device is arranged, the feeding box is driven to move, and at the same time, the gear is driven to move, and the gear acts with the toothed plate, so that the rotating rod is driven to rotate. The food is evenly dropped on the food throwing plate by poking the leaves, so that special aquatic animals such as soft-shelled turtles can eat more dispersedly, and the situation of food grabbing does not occur; and the poking leaves can rotate without power output such as a motor, which is more energy-saving and environment-friendly.



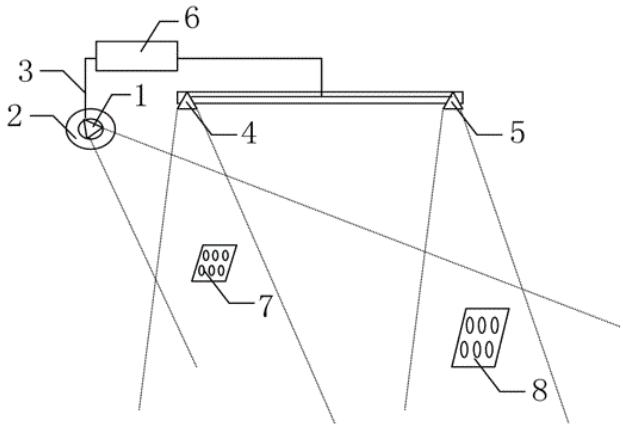
21: 2023/02320. 22: 2023/02/23. 43: 2023/05/18
51: A23K
71: South China Normal University
72: WANG Lei, YANG Zhixin, YU Jie, ZHONG Wanqing, NING Shengdi, CHEN Yaoyu, LIANG Yitian, MIAO Yutao, XUE Yuning

54: CHINESE HERBAL MEDICINE ADDITIVE FOR SHRIMP AND APPLICATION THEREOF

00: -

The invention discloses a Chinese herbal medicine additive for shrimps and an application thereof, and belongs to the technical field of aquaculture. The Chinese herbal medicine additive for shrimps comprises the following medicinal materials in parts by weight: 22-30 parts of Selaginella, 15-20 parts of herba violae, 13-17 parts of Cyrtomium fortunei, 6-10 parts of dandelion and 1-3 parts of dried tangerine peel. According to the invention, five Chinese herbal medicines, namely Selaginella, herba violae, Cyrtomium fortunei, herba violae and dried tangerine peel, are screened out; through reasonable compatibility and combining with a specific salt preparation method, the efficacy of the prepared Chinese herbal medicine additive is enhanced, and the contained salt can kill harmful bacteria on the body surface of shrimps, help drug absorption and stimulate appetite, thereby improving the self-immunity of shrimps; and experiments prove that the prepared Chinese herbal medicine additive has obvious efficacy, can completely replace antibiotics, effectively prevent and treat diseases of shrimps, and significantly reduce the mortality rate of aquatic animals.

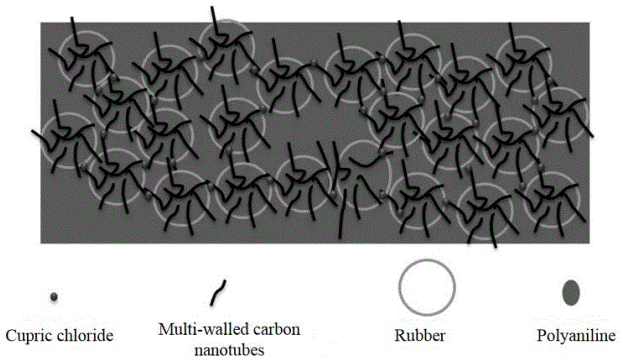
21: 2023/02328. 22: 2023/02/23. 43: 2023/05/19
51: G06T
71: Yantai University
72: BI Yuanwei
54: MULTI-CAMERA CALIBRATION METHOD BASED ON 3D AUTOMOBILE WHEEL ALIGNER
00: -
The invention provides a multi-camera calibration method based on 3D automobile wheel aligner, which is mainly used for calibrating a 3D automobile wheel aligner multi-camera system in production and maintenance. The relative position information of two target boards is obtained by the calibration camera, and the position information of one target board is obtained by each of the two measuring cameras. Finally, the relative position relationship between the second measuring camera and the first measuring camera is calculated. The calibration system does not need additional target plates, and the two target plates do not need to be rigidly connected by a calibration rod, so that the calibration result is high in accuracy, and the size and weight of the calibration system are greatly reduced, which is convenient for maintenance personnel to carry around, the calibration steps are simple, the operation is convenient, and the related costs are reduced.



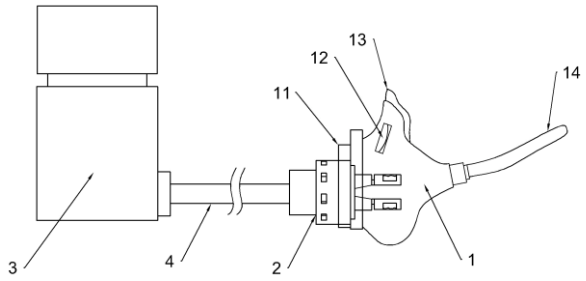
21: 2023/02329. 22: 2023/02/23. 43: 2023/05/18
51: A23L
71: Northwest University, Shaanxi Food and Agriculture Industry Technology Research Institute Co., Ltd.
72: Xingang LV, Chan SHI, Yixuan WANG, Meng ZHANG, Xi YANG
54: MYROSINASE MICROCAPSULE, AND SOLID BEVERAGE AND EFFERVESCENT TABLET PREPARED THEREFROM
00: -
The invention discloses a myrosinase microcapsule, a solid beverage and effervescent tablets prepared from the myrosinase microcapsule, wherein the average particle size of the myrosinase microcapsule prepared by the preparation method is less than 10 micron, and the myrosinase microcapsule is suitable for food application without obviously affecting the taste; Moreover, that preparation method of the invention belong to a normal temperature preparation method, and the myrosinase microcapsule can be prepared without adopt a higher temperature in the preparation process, so that the myrosinase microcapsule can be preserved. Maintain the activity of myrosinase and avoid the influence of high temperature on myrosinase activity. The activity of the myrosinase microcapsule prepared by the invention is 68 percent of that of the free enzyme, and the enzyme activity is decreased by 33.52 percent compared with that of the free enzyme after being placed for 3 months at normal temperature. This shows that the myrosinase microcapsule prepared by the invention has high myrosinase activity, and its activity can be maintained for a long time without rapid decline, so as to avoid the low amount of sulforaphane produced by broccoli sprouts or sprouts powder due to the rapid decline of myrosinase activity.

21: 2023/02330. 22: 2023/02/23. 43: 2023/05/18
51: H01L; B82Y
71: Lingnan Normal University, Agricultural products processing research institute, Chinese Academy of tropical Agricultural Sciences
72: Dongning HE, Jing CHEN, Tianming GAO, Jinlong TAO, Yanli WANG, Hongchao LIU, Dexin TAN, Wei GONG, Jiye YUAN, Lusheng LIAO
54: ORGANIC THERMOELECTRIC MATERIAL DOPED WITH CARBON NANOTUBES AND PREPARATION METHOD THEREOF
00: -
Disclosed is an organic thermoelectric material doped with carbon nanotubes and a preparation method thereof. Specifically, the preparation method of an organic thermoelectric material doped with carbon nanotubes includes: dissolving rubber, dispersing carbon nanotubes, preparing a cross-linking system solution, emulsification, cross-link curing, conductive polymer compounding, solvent removal and forming. The method provided by the

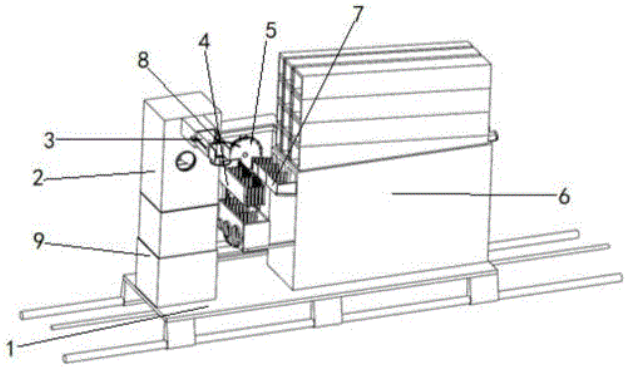
invention includes: homogenizing rubber, carbon nanotubes and cross-linking agent with the same solution, blending, emulsifying, solidifying, accelerating stirring to volatilize the solvent, further adding a stabilizer, concentrating and drying to prepare latex doped with carbon nanotubes, compounding the latex with soluble polyaniline, and performing solvent removal, hot pressing molding and other processes to prepare the finished product. The preparation method has little influence on the environment and human body, and the carbon nanotubes are distributed orderly; The organic thermoelectric materials prepared by this method have high conductivity, good thermal stability and high maximum power factor measured at 341K.



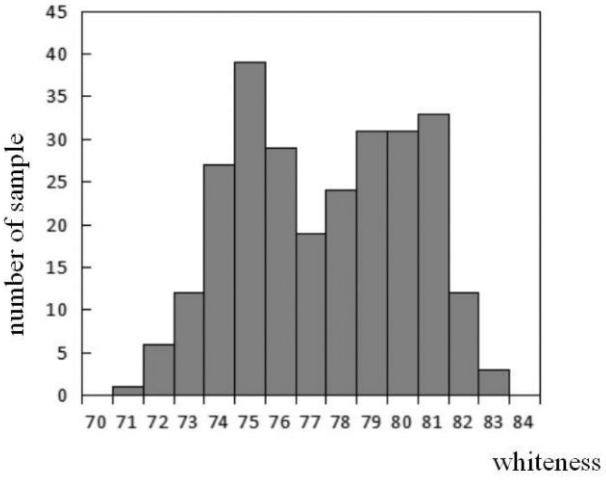
21: 2023/02331. 22: 2023/02/23. 43: 2023/05/18
51: A61M
71: The first affiliated hospital of bengbu medical college
72: DONG Huaifu, ZHENG Haiyan, DONG Xiaoyu, RONG Daoxiang, HUANG Feifei
54: RESPIRATORY ATOMIZATION THERAPY DEVICE FOR PEDIATRICS
00: -
The invention belongs to the technical field of medical devices, in particular to a respiratory atomization therapy device for pediatrics, which comprises a silicone mask, wherein the front end of the silicone mask is fixedly connected with a fixing ring, at least one one-way vent is fixedly connected with the silicone mask, and the rear end of the silicone mask is fixedly connected with a binding band; the fixing ring is sleeved with an occlusal ventilation head, and the end of the occlusal ventilation head far away from the silicone mask is fixedly communicated with an atomizer body through a connecting pipe. By using these structures, a device which can let children control whether the medicine mist enters or not according to their own situation is realized, and the occurrence of vomiting discomfort is avoided by using children's own judgment.



21: 2023/02335. 22: 2023/02/23. 43: 2023/05/19
51: A01D
71: Anhui Polytechnic University
72: ZHENG Yanchang, YANG Long, LU Yuelin, QIAN Liyong
54: ROUND FRUIT AND VEGETABLE HARVESTING ASSEMBLY LINE
00: -
The invention relates to a round fruit and vegetable harvesting assembly line, which belongs to the technical field of fruit and vegetable picking equipment. The round fruit and vegetable harvesting pipeline comprises a mobile platform, a screening module which can be lifted up and down is connected to the mobile platform, a horizontally retractable picking module is connected to the screening module, the picking module is connected to a sorting temporary storage bin through the screening module, and the sorting temporary storage bin is connected to a guide platform on a screening collection bin through a transmission module. According to the invention, automatic screening, classification and storage are carried out after round fruits and vegetables are picked, so that the automation degree of round fruits and vegetables harvesting is improved, the labor intensity is reduced, the harvesting efficiency is improved, and the labor cost is reduced.



21: 2023/02336. 22: 2023/02/23. 43: 2023/05/19
51: A01G; C12N
71: SHANDONG AGRICULTURAL UNIVERSITY
72: DENG Zhiying, WANG Guanying, TIAN Jichun, LI Wenshu, ZHAO Yingjie, BAO Yinguang
54: MAJOR QTL FOR CONTROLLING WHITENESS OF WHEAT FLOUR AND APPLICATION OF MOLECULAR MARKER
00: -
The invention provides a major QTL for controlling whiteness of wheat flour and application of molecular markers. SLAF-Seq technology is used to construct a high-density genetic map to locate the QTL of flour whiteness, and stable major QTL for controlling flour whiteness and its molecular markers and applications are identified on chromosomes 1D and 3A, which is of great significance for detecting varieties, strains and breeding materials with high whiteness of wheat flour, and molecular markers can be developed according to the SNP marker, thus accelerating the efficiency of wheat quality breeding.

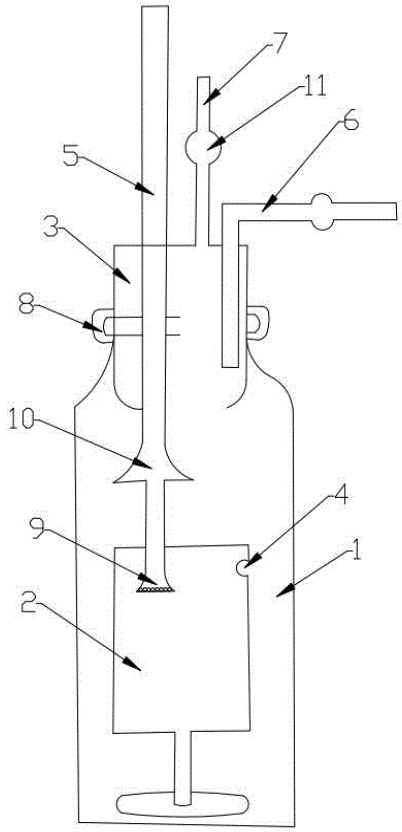


21: 2023/02337. 22: 2023/02/23. 43: 2023/05/19
51: A61K; A61P
71: Ran Yao, Guofu Guan, Lican Yao
72: Ran Yao, Guofu Guan, Lican Yao
54: A PRESCRIPTION FOR TREATING UTERINE-RELATED CANCERS
00: -
A prescription for treating uterine-related cancers, which consists of natural killer cell activin, long-acting and high-absorption lipid-soluble vitamin C, compound 7 mushroom extract, total vitamin and mineral mixture, compound maitake mushroom extract, compound seaweed extract, compound coenzyme Q10, chlorella extract, compound PQQ. The prescription of the invention can treat all kinds of uterine-related cancers including endometrial cancer and cervical cancer, and the therapeutic effect is remarkable; it can be applied to the treatment of the whole stage of uterine-related cancers including the middle and late stage, and the treatment range is wide, and the course of treatment is short, and the side effect is small; moreover, the invention can not only be used in combination with chemotherapy drugs to treat uterine-related cancers, but also can be used for chemotherapy or postoperative prognosis and treatment of uterine-related cancers, the prognosis is good, and can greatly reduce the suffering of patients.

21: 2023/02338. 22: 2023/02/23. 43: 2023/05/19
51: C22C
71: China University of Geosciences (Beijing)
72: Zhang Yihe, Zhang Na, Di Xiangyun, Zhang Youpeng, Ding Chong, Zhang Shuai
54: BASALT FIBER REINFORCED PVC MINERAL COMPOSITE MATERIAL AND ITS PREPARATION METHOD
00: -
The invention relates a basalt fiber reinforced PVC mineral composite material and its preparation method. The composite material comprises main material, heat stabilizer, plasticizer, lubricant and auxiliary agent, and the main material comprises tailings such as PVC resin, iron tailings and quartz tailings, solid wastes such as red mud and steel slag, and basalt fibers. And the composite material also comprises antibacterial modified polypropylene fiber and regulator, and the antibacterial modified polypropylene fiber is prepared by the blend spinning of tailings such as iron tailings, quartz tailings, solid wastes such as red mud and steel slag, and polypropylene. In addition, the composite

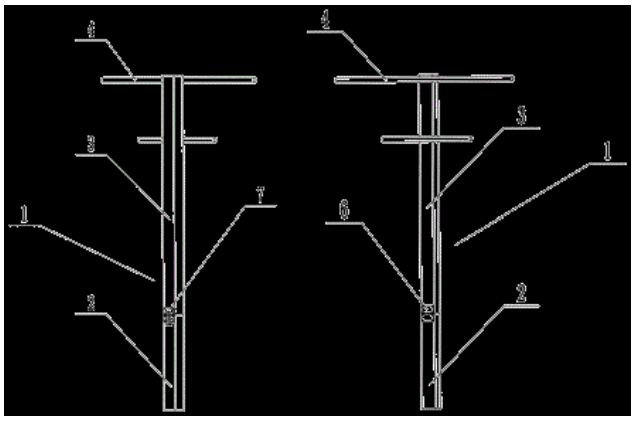
material comprises the following raw materials in parts by mass: 100 parts of PVC resin, 10-100 parts of tailings such as iron tailings and quartz tailings and solid wastes such as red mud and steel slag, 2-12 parts of basalt fiber, 2-8 parts of heat stabilizer, 1-5 parts of plasticizer, 0.1-1.5 parts of lubricant, 0.2-13 parts of auxiliary agent, 5-20 parts of antibacterial modified polypropylene fiber, and 5-10 parts of regulator; 0.2-4 parts of the tailings such as iron tailings, quartz tailings and solid wastes such as red mud and steel slag in the antibacterial modified polypropylene fiber, and the rest is polypropylene fiber.

21: 2023/02339. 22: 2023/02/23. 43: 2023/05/19
51: C01B
71: Chuanbao Yang
72: Chuanbao Yang, Li Wang
54: A HYDROGEN PRODUCTION METHOD BY DRIPPING ON SODIUM AND A DEVICE THEREOF
00: -
A hydrogen production method by dripping on sodium, obtains hydrogen through the reaction of 75% dripping ethanol and sodium covered by kerosene; the sodium metal is placed in the cuvette; the volume ratio of water is 25%; the prepared hydrogen is directly liquefied for hydrogen internal combustion engines, or purified by hydrogen purification devices and processes and then liquefied for use in hydrogen fuel cells; through the method of dripping reaction, the intensity of the reaction between sodium and a large amount of aqueous ethanol is better avoided, and the effect of safe hydrogen production is achieved. The advantage of the invention compared with the prior art: hydrogen is produced by the reaction of 75% dripping ethanol and sodium covered by kerosene, which is safe, continuous, long-term and controllable.



21: 2023/02343. 22: 2023/02/23. 43: 2023/05/18
51: A01G
71: Research Institute of Horticulture, Xinjiang Academy of Agricultural Sciences
72: ZHANG Wen, XIE Hui, WANG Min, ZHANG Dahai, HAN Shou'an, Aiermaike Caikasimu, Maimaitiaili, ZHONG Haixia, QIN Lihuan, ZHANG Fuchun, WANG Zhiqiang, WU Yuhua, BU Wenhong, Mayinuer Abudula
54: FOLDING RACK FOR GRAPE PLANTING AND USE METHOD THEREOF
00: -
The invention discloses a folding rack for grape planting and use method thereof, belonging to the technical field of grape cultivation, and comprising a cultivation rack and folding upright columns arranged at intervals along the same ridge side; the folding upright post comprises a fixed section buried in the soil and a folding section hinged at the top of the fixed section, and the folding section can be folded towards the adjacent folding upright post on the same ridge side, and a first locking mechanism is arranged between the folding section and the fixed section; the cultivation rack is erected on the folding upright post. The main vines of grapes are always

left on the cultivation rack. In winter, the folding upright posts are laid down, buried and covered with gardening ground cloth or other weaving materials, and then the soil is taken from the side of the planting ditch to cover them, so as to realize the burying and wintering. In spring, after removing the covering soil and covering the weaving materials, the folding upright posts are pulled up to make them stand upright, so that the grape can be put on the rack, which saves the tedious steps of removing and putting the vines on the rack. At the same time, the risk of scratching the buds is avoided because it is not necessary to put them on the rack again, and then the upright grape rack can be postponed.

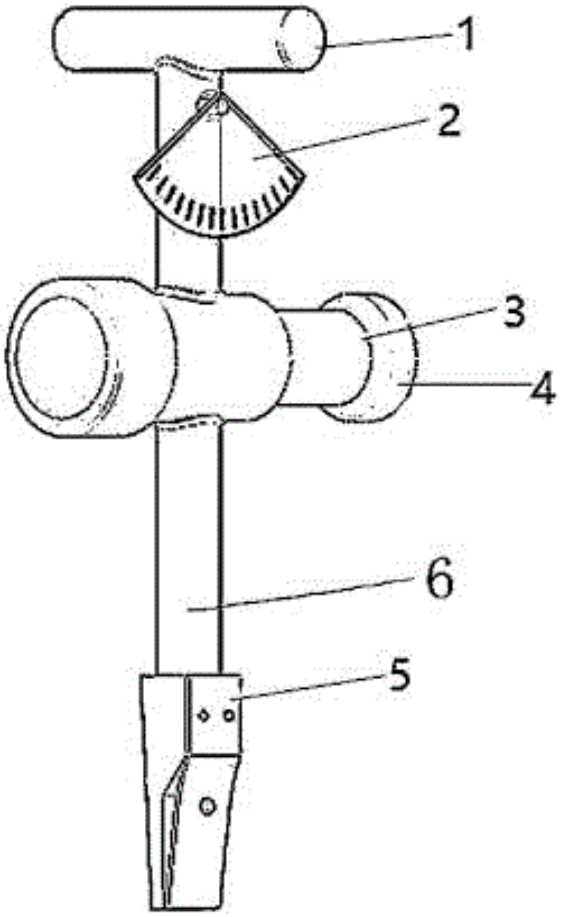


21: 2023/02344. 22: 2023/02/23. 43: 2023/05/18
51: A01G
71: Shandong Institute of Pomology, Handan Forestry Bureau, Weihai Academy of Agricultural Sciences
72: NIE Peixian, WANG Laiping, ZHANG Jianqiang, XUE Xiaomin, LYU Yi, GUAN Qiuzhu
54: METHOD FOR PROMOTING LATERAL BUD GERMINATION AT BRANCH BASES OF YOUNG APPLE TREES
00: -
Disclosed is a method for promoting lateral bud germination at branch bases of young apple trees, and relates to the technical field of apple cultivation. The method includes: spraying a mixed solution consisting of 6BA (6-benzylaminopurine) and GA4+7 (gibberellin) on the branch bases of young apple trees in April to promote the lateral bud germination at the branch bases after the young apple trees are planted, wherein a concentration of 6BA in the mixed solution is 300 mg/L, and a concentration of GA4+7 is 300 mg/L. The invention adopts 6BA and GA4+7 to jointly treat the branch bases of young apple trees, and utilizes the synergistic effect of the two to promote the lateral buds of the branch bases to germinate, form branches and then form flower buds, thereby promoting the yield.



21: 2023/02345. 22: 2023/02/23. 43: 2023/05/19
51: G01N
71: HENAN UNIVERSITY OF SCIENCE AND TECHNOLOGY
72: WANG Yaoli, WANG Guangxin, XIANG Nan, ZHANG Keke, ZHANG Xin, LIU Haiyang
54: CLAMPING DEVICE FOR WETTABILITY EXPERIMENT
00: -
The invention provides a clamping device for wettability experiment, which aims to solve the problem that the measurement result is inaccurate due to the large error between the preset immersion angle and the actual immersion angle of a sample to be tested in the prior art. The clamping device for wettability experiment comprises a suspension rod, the lower end of the suspension rod is provided with a fixture for clamping the sample to be tested, the suspension rod is provided with a marker for cooperating with an angle dial to measure the immersion angle of the sample to be tested, and the suspension rod is also provided with an angle controller which drives the suspension rod to swing to change the immersion angle of the sample to be tested, and the angle controller comprises a movable counterweight arranged on the suspension rod, and the moving direction of the counterweight is perpendicular to the swing axis of the suspension rod. The clamping device of the invention is in a

natural drooping state after clamping the sample, the immersion angle will not change, and the measurement result will not be inaccurate.

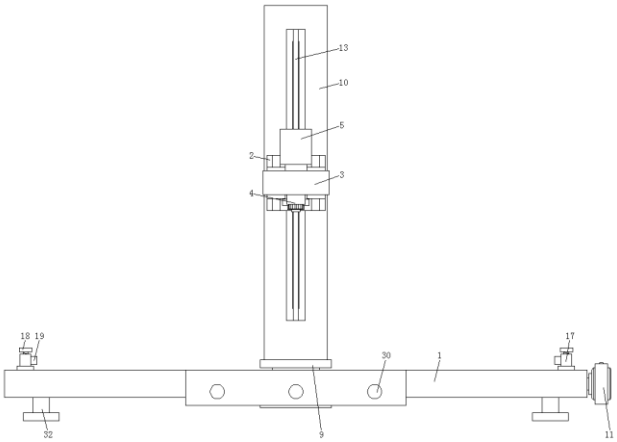


21: 2023/02346. 22: 2023/02/23. 43: 2023/05/19
51: A61B
71: HUAINAN NORMAL UNIVERSITY
72: ZUO Hongkun, ZHOU Yi, HUO Yuhong, GUO Xiangpeng

54: NEURON CALCIUM SIGNAL CONDUCTION DETECTION DEVICE

00: -

The invention discloses a neuron calcium signal conduction detection device. A fixed mounting plate is provided with a mobile adjusting mechanism, and that front side of the mobile adjusting mechanism is provided with a multi-section telescopic mechanism through a lifting seat; the front side of the multi-section telescopic mechanism is provided with an identification module and a two-photon calcium imaging detection head through the adjusting seat; the multi-section telescopic mechanism is provided with a main controller; the identification module is used for identifying the movement of a model animal in real time and sending data to the main controller; and the main controller is used for controlling the mobile adjusting mechanism and the multi-section telescopic mechanism to drive the two-photon calcium imaging detection head to follow the model animal for detection in real time; according to the invention, the following movement of the two-photon calcium imaging detection head is realized by identifying and controlling the mobile adjusting mechanism and the multi-section telescopic mechanism through the identification module, so that the model animal can be detected in a moving way without contacting the model animal, and the model animal neurons are not stimulated without contacting the model animal, so that the neuron experimental detection result is more convincing.



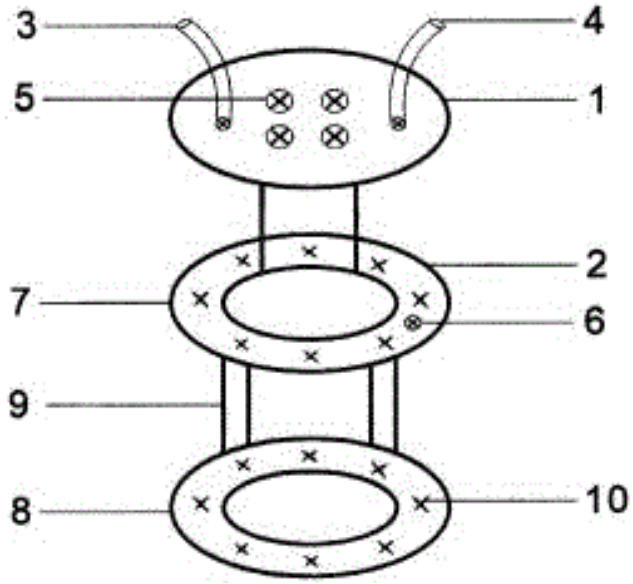
21: 2023/02347. 22: 2023/02/23. 43: 2023/05/19
51: A61B
71: AFFILIATED HOSPITAL OF WEIFANG MEDICAL UNIVERSITY
72: FENG Shuo, YAO Fuwang, JIANG Jun, WANG Xiaoyun

54: SINGLE-HOLE LAPAROSCOPIC MULTIFUNCTIONAL CHANNEL

00: -

The invention discloses a single-hole laparoscopic multifunctional channel, which relates to the field of medical instruments. In order to overcome the problems that the existing single-hole laparoscopic multifunctional channel can not be well fixed at the incision site, which is inconvenient to take out surgical specimens and expensive. The invention provides a single-hole laparoscopic multifunctional channel, which comprises an upper module and a lower module, wherein the upper end of the upper

module is provided with a smoke exhaust port, an air inlet, and three or more instrument channels; the lower module has an air injection hole, an upper chuck, and a lower chuck; the air injection hole is located in the upper chuck, and the upper chuck is connected with the lower chuck through a hollow support belt; and gas is injected through the air injection hole to expand the hollow support belt, the upper chuck is expanded, the lower part of the upper chuck is in close contact with the skin, the lower chuck is expanded, and the upper part of the lower chuck is in close contact with the parietal peritoneum. The invention has the beneficial effects that it can be well fixed on the surgical incision, is convenient for taking out the specimen, and has low price.

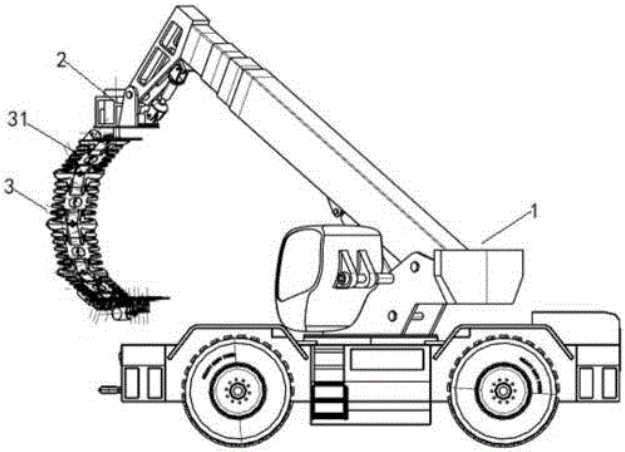


21: 2023/02348. 22: 2023/02/23. 43: 2023/05/19
51: A01D; A01G
71: Anhui Polytechnic University
72: ZHENG Yanchang, HE Jintao, QIAN Liyong, LU Yuelin

54: HEDGE TRIMMER WITH ADJUSTABLE TRIMMING SHAPE

00: -

The invention relates to a hedge trimmer with adjustable trimming shape, belonging to the technical field of garden trimming equipment; the hedge trimmer with adjustable trimming shape comprises a crane, wherein the end of a rotary telescopic arm of the crane is connected with a trimming mechanism through a rotary driving mechanism; the trimming mechanism comprises a plurality of trimming modules which can independently perform trimming work; two adjacent trimming modules are locked and connected through an angle adjusting mechanism I; the driving end of the rotary driving mechanism is locked and connected with the trimming module at one end of the trimming mechanism through an angle adjusting plate; the vehicle-mounted hedge trimmer has the beneficial effects that the overall structural design of the vehicle-mounted hedge trimmer is reasonable, the operation is convenient and flexible, the labor intensity of horticultural workers is reduced, the size and shape of the trimming diameter of seedlings can be automatically adjusted, the angle adjustment range is wide, and the adjustment is flexible, so that various gardening shapes can be constructed, which is more in line with the current greening requirements.



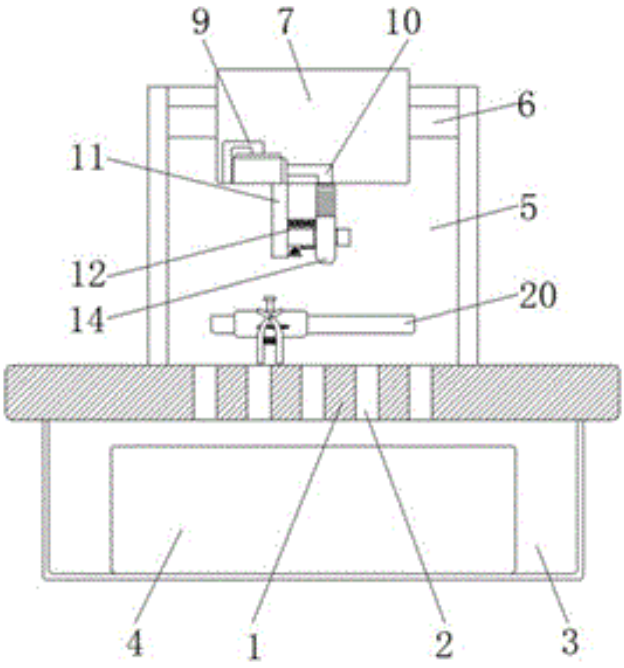
21: 2023/02349. 22: 2023/02/23. 43: 2023/05/19
51: A61M
71: The affiliated hospital of Qingdao university
72: DENG Yujie, LI Chengqian, WANG Ping, YU Qing, XU Shumin, WANG Xiaoxia

54: DEVICE FOR TREATING DIABETIC FOOT AND WORKING METHOD THEREOF

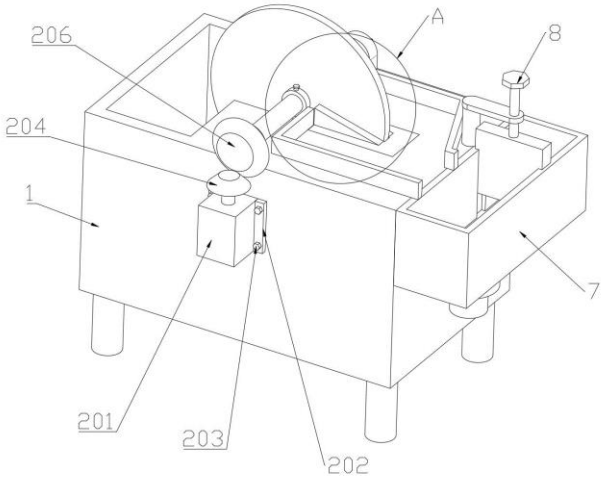
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The invention relates to the technical field of medical auxiliary equipment, and discloses a device for treating diabetic foot and a working method thereof, the device for treating diabetic foot comprises a machine frame, an arc-shaped cover plate, a connecting transverse plate, a liquid medicine tank, a debridement device, a pushing device and an automatic spreading device, where the arc-shaped cover plate is arranged at the top of the machine

frame, the connecting transverse plate is arranged at the inner side of the arc-shaped cover plate, the liquid medicine tank is arranged at the inner side of the arc-shaped cover plate and penetrates through the connecting transverse plate. According to the device for treating diabetic foot and its working method, by setting the bracing plates, patients can put their feet on the mounting plate during treatment, and pull out the bolt, so that the mounting slider drives the bracing plates to move left and right on the mounting cross bar to spread different diseased toes, and the tightening position of the mounting nut on the connecting bolt and the cooperation with the connecting spring control the spreading degree between the two bracing plates, which is convenient for different toes to be spread for treatment without manpower, and it is more protective and safer to use.

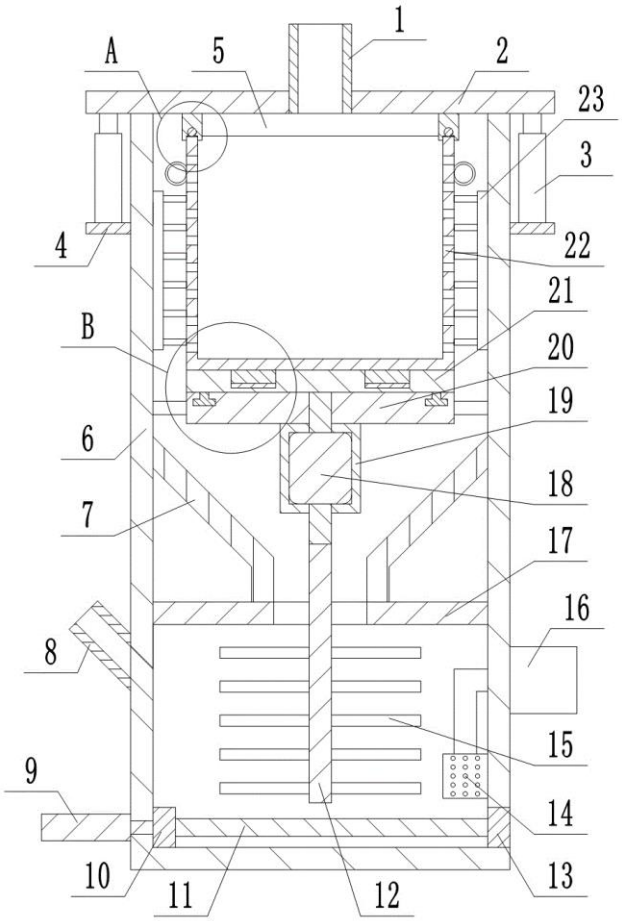


21: 2023/02350. 22: 2023/02/23. 43: 2023/05/19
51: C02F
71: TIANJIN RESEARCH INSTITUTE FOR WATER TRANSPORT ENGINEERING,M.O.T.
72: ZHANG Lu, SHOU Youping, DU Yunyi, ZHAO Yingjie, YE Wei, ZHAO Junjie, LI Zhendong, CHANG Fang
54: OIL POLLUTION TREATMENT DEVICE
00: -
Disclosed is an oil pollution treatment device, and relates to the field of oil pollution treatment. The invention includes a treatment box, wherein a lower part of the treatment box is provided with a second motor, and an output end of the second motor is provided with a rotating plate rotatably fitted in the treatment box; an upper end of the rotating plate is provided with a plurality of sector plates; an upper part of the treatment box is provided with a driving component, a scraping component, a liquid retaining component and a regulating component; the driving component is provided with an adsorption component, and a lower part of the adsorption component is located in the treatment box; the separation component includes a box body, a liquid collecting tank is arranged on an upper side of the box body, a reflux port is arranged on one side of an inner wall of the liquid collecting tank. The microemulsion cutting fluid in the treatment box is stirred by the sector plates, so that the iron chips in the microemulsion cutting fluid move towards the adsorption component in the central area, and the adsorption rate of the iron chips in the microemulsion cutting fluid is increased by the adsorption component; and the surface of the adsorption component is scraped through the scraping component.



21: 2023/02351. 22: 2023/02/23. 43: 2023/05/19
51: C02F
71: Beihua University
72: XIE Yi
54: EFFICIENT TREATMENT DEVICE FOR BUILDING CONSTRUCTION SEWAGE
00: -

The invention discloses an efficient treatment device for building construction sewage, which comprises a box body, wherein a partition board is fixedly connected in the box body, the partition board divides the box body into an upper chamber and a lower chamber from top to bottom, and an enclosed part is installed at the top of the box body; the filtering mechanism comprises a fixed seat and a rotary filtering part, wherein the fixed seat is fixedly connected with the upper chamber, a water collecting hopper is arranged between the fixed seat and the partition board, the water collecting hopper is fixedly connected with the box body, the water collecting hopper is communicated with the lower chamber, the bottom end of the fixed seat is fixedly connected with the power part, the rotary filtering part is rotatably connected with the top end of the fixed seat, and the rotary filtering part is in transmission connection with the power part; a settling mechanism, which comprises a medicine inlet pipe, a stirring part, a cleaning part and a drainage part, wherein the medicine inlet pipe and the drainage part are fixedly connected to the box body; the medicine inlet pipe and the drainage part are both communicated with the lower chamber; the stirring part and the cleaning part are both located in the lower chamber; and the stirring part is in transmission connection with the power part. The invention can achieve a better treatment effect on building sewage.



21: 2023/02352. 22: 2023/02/23. 43: 2023/05/19
51: A23L
71: The Third Affiliated Hospital of Xinxiang Medical University, Xinxiang Medical University
72: Jiang Hongbo, Li Chengzhang, Luo Xiaoqiu, Liu Jinrui, Sun Zhen, Jiao Bolin, Zhuang Zhiqun, Wang Haoran, Yang Yifan, Lei Huanyu, Hu Jimei, Zhao Bingqian, Du Ailin

54: KONJAC SANDWICH AND PREPARATION METHOD THEREOF

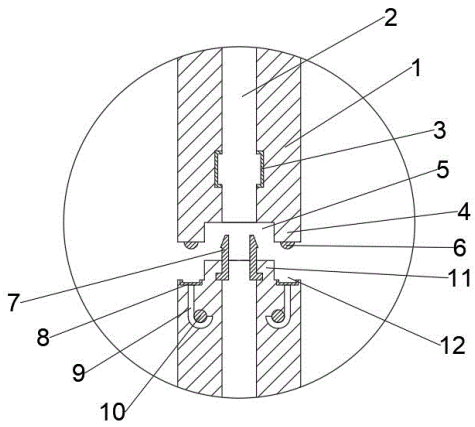
00: -

This invention discloses a konjac sandwich and preparation method thereof, belonging to the technical field of food processing. The konjac sandwich comprises a cake part and a filling part; the sandwich of the invention can intervene hyperhomocysteinemia and obesity, and compared with traditional weight-loss drugs and foods, it focuses on reducing the content of homocysteine in blood by promoting the methylation of homocysteine into methionine, thereby reducing the risk of cardiovascular and cerebrovascular diseases such

as atherosclerosis, thrombosis and stroke, and its mechanism of action is more clear.

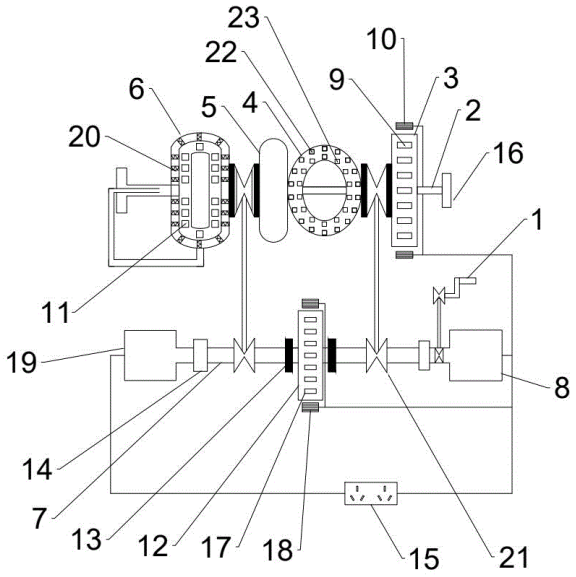
21: 2023/02355. 22: 2023/02/23. 43: 2023/05/19
51: A01G; A01N
71: Bozhou University
72: XU Xianmeng, LIANG Caiqing, PU Shunchang, LU Ning, WANG Jungang
54: GERMINATION PROCESS OF PEANUT BUD RICH IN RESVERATROL
00: -
The invention discloses a germination process of peanut bud rich in resveratrol, which is characterized by comprising the following steps: seed selection, seed treatment, germination acceleration and germination; by adopting the technical scheme of the invention, the water absorption rate of the peanut seeds is increased after soaking, the seed vigor is improved, and the germination rate of the peanut seeds is improved; after the peanut seeds are pretreated, the exogenous L-phenylalanine (L-Phe) is induced and sprayed to promote the germination of the peanut seeds, so that the content of peanut bud resveratrol is increased, and allergenic proteins such as Arah1 protein are removed at the same time.

21: 2023/02356. 22: 2023/02/23. 43: 2023/05/19
51: E04B
71: Zhengzhou University of Aeronautics
72: HOU Xiaoying, WANG Hua
54: ASSEMBLED BUILDING WALL
00: -
The invention relates to the technical field of assembled buildings, in particular to an assembled building wall, which comprises a wall, wherein the top of the wall is provided with a central protrusion along the length direction of the wall; the bottom of the wall is provided with a middle groove along the length direction of the wall; the central protrusion is matched with the middle groove; a plurality of reserved holes are vertically arranged between the middle groove and the central protrusion; the reserved holes are sequentially arranged at equal intervals along the wall direction; the bottom of the reserved holes is fixedly connected with a clamping part; the top of the reserved hole is fixedly connected with an embedded part; the clamping part and the embedded part are clamped; and both sides of the top of the wall are symmetrical. The sealing part includes two embedded metal concave strips, which are symmetrically and fixedly connected to both sides of the middle protrusion at the top of the wall, and the bottom of the embedded metal concave strip is fixedly connected with a stable part, which is embedded in the wall, and the embedded metal concave strip is arranged in contact with the sealing strip. The invention can achieve the purpose of improving the waterproofness of the joint of the wall.

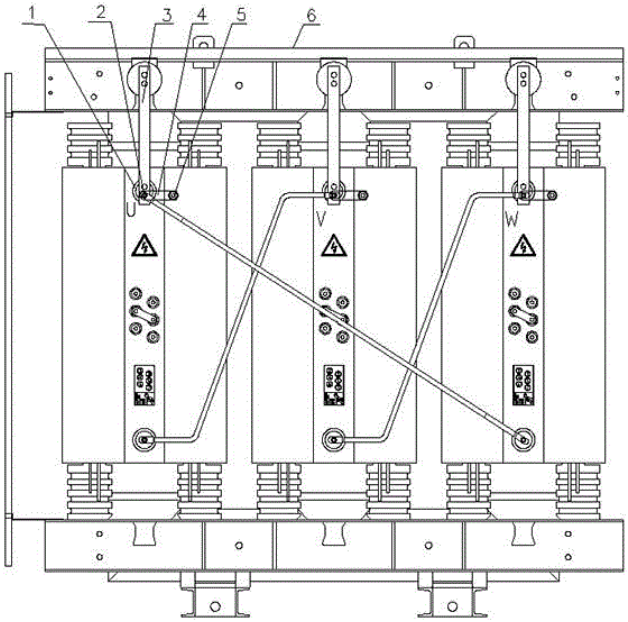


21: 2023/02359. 22: 2023/02/23. 43: 2023/05/18
51: H02K
71: Gaofeng NING
72: Gaofeng NING
54: GRAVITY WHEEL MAGNETIC ENERGY INTERNAL CIRCULATION GENERATOR
00: -
The invention discloses a gravity wheel magnetic energy internal circulation generator. The hand power unit is connected to the power transmission component through a belt to drive the transmission shaft thereof to rotate; the transmission shaft is connected to the first inertia wheel, the belt pulley connected together between the magnetic machine and the belt pulley connected together between the magnetic motor and the electromagnetic coil gravity wheel through the belt to jointly drive it to rotate; at the same time, the magnetic motor rotates to generate electricity and transmits it to the electromagnetic coil gravity wheel through the wire; after the electromagnetic coil gravity wheel is energized, it rotates to increase the speed and connects the drive shaft through the belt drive; the transmission shaft drives the first and second

generators on the power transmission component to generate electricity. The first inertial wheel, the magnetic machine, the magnetic motor and the electromagnetic coil gravity wheel that are connected together are driven to rotate simultaneously by the driving force of the hand power unit; at the same time, the magnetic motor rotates to generate electricity, to supply the electromagnetic coils surrounded on the outer ring of the electromagnetic coil gravity wheel to generate strong magnetic repulsion to increase the speed, and then drive the generator to generate electricity to improve power generation efficiency.



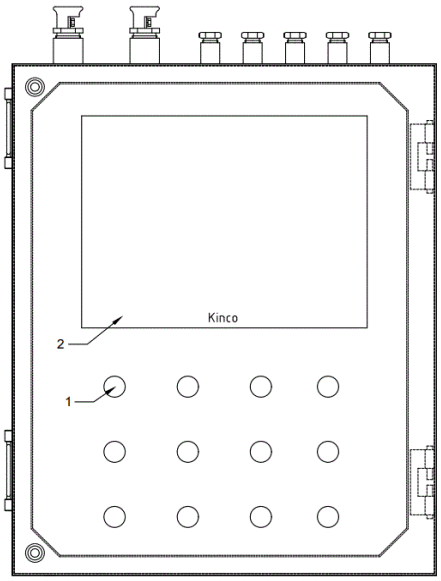
21: 2023/02390. 22: 2023/02/23. 43: 2023/05/19
51: H01F
71: CHINA RAILWAY ELECTRIC INDUSTRIES CO., LTD.
72: REN Yulong, LEI Tao, XU Zhihua, CHAI Shuying, LI Xiaoxin, XU Guojie, LIU Yanan, WANG Jingbao
33: CN 31: 202121082302X 32: 2021-05-20
54: DRY-TYPE TRANSFORMER DISCHARGE GROUNDING PROTECTION DEVICE
00: -
The invention discloses a dry-type transformer discharge grounding protection device, which comprises six conductive spherical grounding terminals and six conductive line terminals. Both ends of each conductive line terminal has mounting holes. One end of the three conductive line terminals is respectively fixed at U, V and W of the terminal of each phase coil on the high-voltage side of the transformer, and the other end is respectively connected and fixed with three conductive spherical grounding terminals. One end of the other three conductive line terminals is respectively connected and fixed at the a, b and c joints where the post insulators of each phase on the low-voltage side of the transformer are connected with the corresponding copper bars, and the other end is respectively connected and fixed with the other three conductive spherical grounding terminals. The invention has a simple structure which can be directly installed on the dry-type transformer, convenient for grounding operation, and effectively prevent the danger of accidental electric shock during transformer test and maintenance.



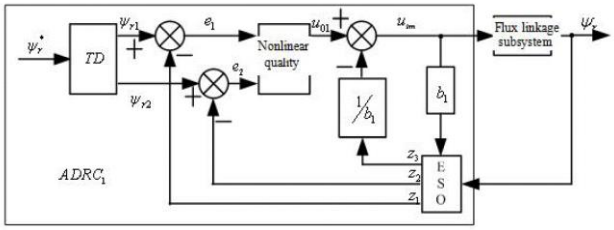
21: 2023/02420. 22: 2023/02/24. 43: 2023/05/18
51: A01G
71: Shandong Institute of Pomology, Shandong Microgen Biotechnology Co., Ltd., Weihai Academy of Agricultural Sciences
72: NIE Peixian, ZENG Wenguan, XUE Xiaomin, LYU Yi, LIU Xuemei, YU Bo
54: METHOD FOR EFFECTIVELY IMPROVING PHOTOSYNTHESIS OF PLANT LEAVES
00: -
The invention provides a method for effectively improving the photosynthesis of plant leaves, which belongs to the technical field of plants. In the apple fruit expansion period, the leaves (within 20 cm around the fruit) are sprayed with fulvic acid

aqueous solutions with different concentrations for treatment, so that the photosynthesis of the leaves is enhanced, and the synthesis ability of photosynthetic compounds of the leaves is improved; at the same time, it promotes the transportation of photosynthates to fruits. Under the condition of the invention, the absorption of 13C in the fruit is the largest at the concentration of FA3 (150 mg·L-1), which is beneficial to the accumulation of sugar in fruit.

21: 2023/02421. 22: 2023/02/24. 43: 2023/05/18
51: G05D
71: Pingdingshan Tianan Coal Mining Co., Ltd., Meizhuo Mine Safety Equipment (Xuzhou) Co., Ltd.
72: TU Xingzi, CHEN Huaxin, ZHANG Xiaoniu, WANG Lei, LI Taotao, SONG Yu, CHEN Fumin, CHEN Zihan, MEI Fengzhang, CHEN Liang, ZHANG Xifeng, ZHANG Shilei, LI Shaohui, ZHANG Shijun, XIE Weicai, ZHANG Jihu
54: AUTOMATIC CONTROL DEVICE OF ELECTROTHERMAL VULCANIZER AND CONTROL METHOD THEREOF
00: -
The invention discloses an automatic control device of electrothermal vulcanizer and a control method thereof, which comprises a control box, wherein a PLC controller is fixed in the control box; the temperature control component comprise a plurality of temperature sensors, wherein that number of the temperature sensors is the same as that of the heating plates and correspond to each other one by one; the temperature sensors are used for feeding back the temperature of the heating plates to the PLC controller, and the PLC controller is used for controlling the start and stop of the heating plates; the pressure control component comprises a pressure sensor, wherein the pressure sensor is used for feeding back the pressure of the water pressure plate to the PLC controller, the water pressure plate is communicated with the pressurizing pump, and the PLC controller is used for controlling the start and stop of the pressurizing pump. The invention can realize automatic control, real-time monitoring and data storage of the vulcanization process of the conveyor belt joint, eliminate the influence of human adverse factors and effectively ensure the vulcanization quality of the conveyor belt joint.

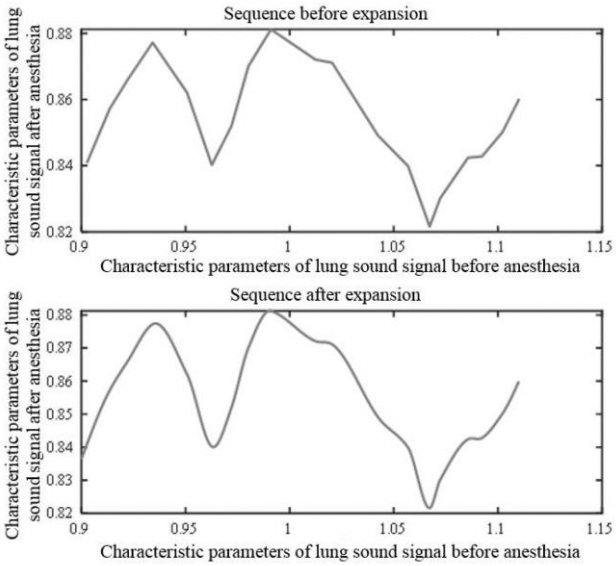


21: 2023/02422. 22: 2023/02/24. 43: 2023/05/18
51: H02P
71: BEIHUA UNIVERSITY
72: BAI Jing, XIN Ping, SONG Yanxia, SHAN Chuanwen, XING Jisheng, XU Yu
54: VECTOR FREQUENCY CONVERSION HIGH PERFORMANCE SPEED REGULATION METHOD FOR INDUCTION MOTOR BASED ON ACTIVE DISTURBANCE REJECTION CONTROLLER
00: -
The invention provides an asynchronous motor vector frequency conversion high-performance speed regulation method based on active disturbance rejection control, which mainly comprises the following steps: step 1, standardizing the mathematical model of a nonlinear induction motor; Step 2: Design the differential tracker of ADRC; Step 3, designing an extended state observer of the active disturbance rejection controller; Step 4: Design the nonlinear combination of ADRC; Step 5: Apply the designed ADRC to the induction motor variable frequency speed regulation system.

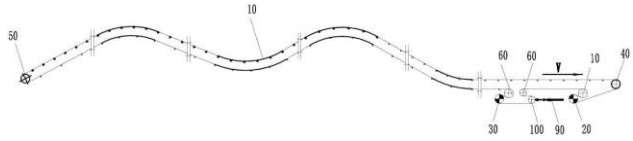


21: 2023/02423. 22: 2023/02/24. 43: 2023/05/18

51: A61B
71: BEIHUA UNIVERSITY
72: FU Wei, MA Dandan, WANG Yuhong, CUI Xiaoyue, SHAN Chuanwen, XING Jisheng, XU Yu, BAI Jing
54: PREDICTION METHOD OF LUNG SOUND CHARACTERISTICS DURING ANESTHESIA BASED ON GAUSSIAN REGRESSION MODEL
00: -
The invention discloses a prediction method of lung sound characteristics during anesthesia based on a Gaussian regression model, which can predict the trend of lung sound characteristics of patients after anesthesia by paying attention to the lung sound of patients during surgery, help doctors to predict and judge the patient's condition in time during surgery, and help doctors to understand and grasp the patient's physiological condition, thus reducing the risk of surgery. The prediction method comprises S1, determining a data point as a sampling point of a Gaussian process; S2, determining a mean function; S3, determining a covariance function; S4, determining the expression of the prediction point according to the posterior probability; S5, solving the hyperparameter by maximum likelihood estimation; S6, substituting the data and obtaining the results.

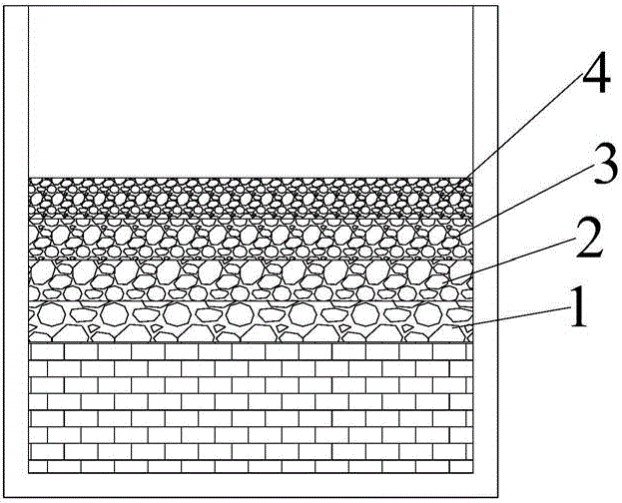


21: 2023/02424. 22: 2023/02/24. 43: 2023/05/18
51: B65G
71: Ningxia Tiandi Northwest Coal Machinery Co., Ltd.
72: FENG Baozhong, WANG Zhangui, HOU Hongwei, ZHANG Fenyou, YANG Jie, LUO Tingfeng, WANG Yan, WANG Pengcheng, WU Tao, LIU Zengjie, GAO Xinfei
54: BELT CONVEYOR WITH AUTOMATIC ADJUSTABLE DRIVE SYSTEM AND DRIVE SYSTEM ADJUSTMENT METHOD
00: -
A belt conveyor with an automatic adjustable drive system and drive system adjustment method, comprises a conveyor belt, a first driving mechanism, a second driving mechanism, an unloading roller, a tail roller, a reversing roller, a first current detection unit and a second current detection unit, wherein the first driving mechanism is arranged close to the unloading roller and the second driving mechanism is arranged close to the tail roller, the first current detection unit is connected with the first driving motor and the second current detection unit is connected with the second driving motor. When the two working conditions occur, the invention can meet the requirements of driving roller to transmit traction with minimum tension, greatly reducing the strength of adhesive tape required by conveyor belt and the tension force of tensioning device, further reducing the power consumption of the driving mechanism with minimum stress, reducing the stress of tensioning device, roller, frame, infrastructure foundation and other components, reducing capital investment and improving the overall economy of conveyor.



21: 2023/02425. 22: 2023/02/24. 43: 2023/05/18
51: C04B
71: Naimgjia (Yingkou) Metal Co., Ltd.
72: SHEN Enyou
54: MAGNESIA REFRACTORY, PREPARATION METHOD AND APPLICATION THEREOF
00: -
The invention provides a magnesia refractory and a preparation method and application thereof, and belongs to the technical field of metallurgy. The magnesia refractory comprises the following raw materials in parts by weight: 20-40 parts of magnesia, 5-10 parts of silica, 15-30 parts of magnesia-calcium iron ore and 8-15 parts of waste electrode graphite powder. The magnesia-calcium iron sand used in the invention is magnesia-calcium

iron synthetic sand, which can improve the permeability of the material; the waste electrode graphite powder has good high temperature resistance, strong oxidation resistance, small and uniform thermal expansion, and is very suitable for being used as the bottom material of a high-carbon ferrochrome submerged arc furnace; in addition, the waste electrode graphite powder, magnesium oxide and silicon dioxide used in the invention are all solid wastes, so that the waste solid can be recycled, and at the same time, the production cost and maintenance cost of the high-carbon ferrochrome submerged arc furnace can be reduced. The magnesia refractory obtained by the invention can generate solid high-quality aggregates, ensure long-term and stable compression resistance and fire resistance grade, and realize waste utilization.

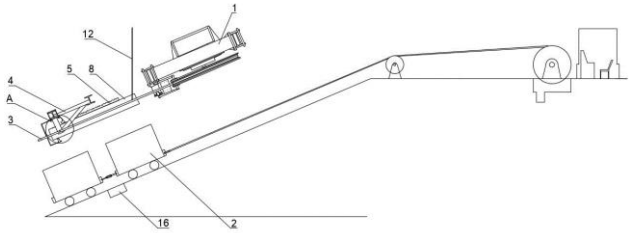


21: 2023/02426. 22: 2023/02/24. 43: 2023/05/18
51: B61B
71: Pingdingshan Tianan Coal Mining Co., Ltd., Meizhuo Mine Safety Equipment (Xuzhou) Co., Ltd.
72: CHEN Huaxin, TU Xingzi, ZHANG Xiaoniu, WANG Lei, LI Taotao, SONG Yu, CHEN Fumin, CHEN Zihan, ZHAO Junye, XIE Junhui, CHEN Liang, ZHANG Xifeng, LI Shaohui, ZHANG Shijun, XIE Weicai, ZHANG Jihu

54: LIFTABLE DIAGONAL ROPE-RETAINING DEVICE FOR MINE MAN-RIDING CABLE CAR

00: -

The invention discloses a liftable diagonal rope-retaining device of a mine man-riding cable car, which comprises a cable car driving part installed at the top end in a mine roadway and a tramcar system installed at the bottom end in the mine roadway, wherein a cable car wire rope is installed on the cable car driving part, and a fixed steel beam is fixedly connected to the top end in the mine roadway; the fixed steel beam is located at one side of the cable car driving part far away from the exit of the mine roadway and has a gap with the cable car driving part; a buffer rope retaining component and a locking component are arranged on the fixed steel beam; the fixed steel beam is provided with a buffer rope retaining component and a locking component; and the cable car wire rope, the tramcar system and the locking component are respectively connected with the buffer rope retaining component. A driving component is arranged in the chamber, and the driving component is in transmission connection with the buffer rope retaining component. The invention has the function of retaining and buffering the cable car wire rope, avoiding the accident hidden danger that the cable car wire accidentally falls off and slides down the inclined lane to cause casualties, reducing the injury to the personnel on the cable car when the cable car wire rope falls off, and also avoiding the fixed rope-retaining device from affecting the transportation of the tramcar.



21: 2023/02428. 22: 2023/02/24. 43: 2023/05/17
51: A23L
71: Hainan Tropical Ocean University, Sanya Yazhou Bay South China Sea Deep Water Research Institute Co., Ltd
72: HU Yaqin, XU Yuanzhe, SONG Yu

54: PREPARATION METHOD OF SEA WATER BITTERN TOFU

00: -

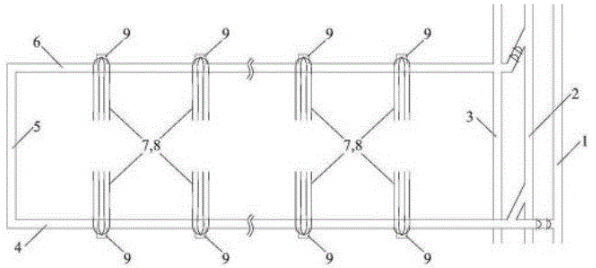
Disclosed is a preparation method of marine salted tofu, and belongs to the field of food processing research and development. According to the preparation method, deep sea salt obtained by concentrating sea water is used as bittern, and the mixed bittern is added into soybean milk to obtain sea water bittern tofu with complete shape, excellent texture parameters and good sensory flavor. The

preparation method of the sea water salted tofu includes the steps of sea water concentration, freeze drying, bean soaking, washing, pulping, paste dropping, placing, pressing, demoulding and the like. The deep sea salt used in the invention comes from natural and pure deep sea water, and its natural mineral components are richer and more complicated than ordinary bittern. As a bittern, deep sea salt may ensure the smooth formation of tofu. The tofu obtained by this preparation method has better quality and nutritional value, and compared with ordinary bittern, the addition of deep sea salt may effectively improve the yield, water content and water holding capacity of the final tofu. The invention provides a more excellent tofu coagulant and a tofu product with better quality and richer nutritional value for the market, and effectively promotes the utilization prospect of sea water in the field of food processing.



21: 2023/02433. 22: 2023/02/24. 43: 2023/05/18
51: E21B
71: North China Institute of Science and Technology, China Coal Technology & Engineering Group Shenyang Research Institute Co. LTD., Taiyuan Coal Gasification (Group) Co. LTD., Coal Science Research Institute Co. LTD., Jiangsu Hengyichuang Intelligent Technology Co.LTD.
72: CHENG Zhiheng, XUE Ao, ZHAO Zhiyan, GUO Jie, QU Xiaoming, CHEN Liang, LI Chunyuan, YANG Zhengkai, GUO Kai, LI Meichen
54: INCLINED DIRECTIONAL DRILLING HOLE CLUSTER AND GAS EXTRACTION METHOD FOR HIGH GAS COAL SEAM GROUP
00: -

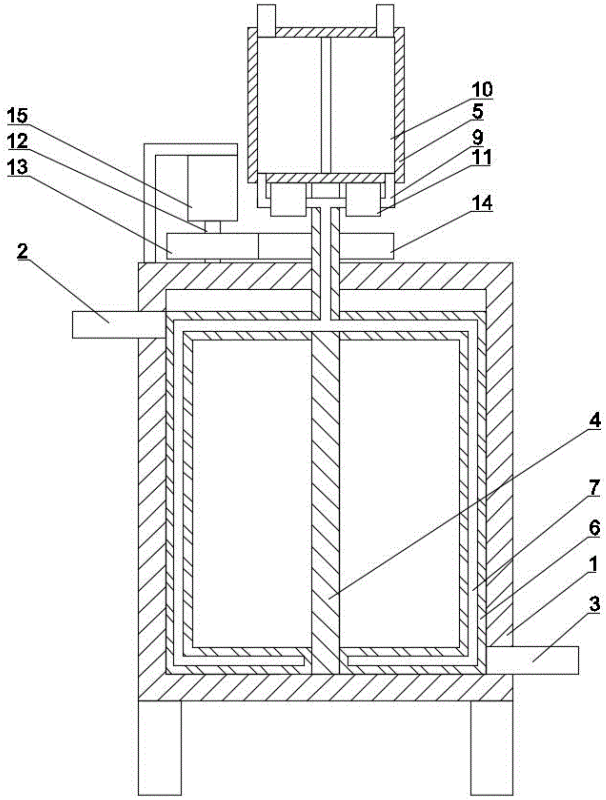
The invention discloses an inclined directional drilling hole cluster of high gas coal seam group and a gas extraction method, which mainly consists of a transportation lane, a return airway, a directional flexible drilling hole cluster and drilling sites. Characterized in that a group of drilling sites are respectively constructed in the transportation lane and the return airway of the coal seam working face, a cluster of flexible drilling holes with inclined roof and a cluster of flexible drilling holes with inclined floor are respectively constructed in each drilling site, each cluster of drilling holes consists of four flexible drilling holes with inclined orientation, after the drilling construction is finished, holes are sealed, gas extraction pipelines are installed in each drilling hole, and then the gas extraction system pipelines of the return airway and the transportation lane are respectively merged to extract the gas released from the coal seam. The invention has the characteristics of short construction time, easy construction, low construction cost and large extraction range, and can improve the extraction efficiency of pressure-relieved gas in high gas coal seam groups, especially the extraction of gas in gas enrichment area of fracture zone.



21: 2023/02434. 22: 2023/02/24. 43: 2023/05/17
51: C02F
71: Beihua University
72: XIE Yi
54: IMPROVED ENVIRONMENT-FRIENDLY CLEANING DEVICE FOR SEWAGE TREATMENT TANK
00: -

The invention disclose an improved environment-friendly cleaning device for a sewage treatment tank, which comprise a treatment tank, where a water inlet and a water outlet are respectively arranged at that top and bottom of the external side wall of the treatment tank; a main support rod is arranged in the treatment tank; the top end and the bottom end of the main support rod are respectively and rotatably

connected with the middle parts of the top end and the bottom end in the treatment tank; a cleaning component is arranged on the main support rod; and the cleaning component is correspondingly arranged with the inner wall of the treatment tank; the top end of the main support rod extend out of the treatment tank and is fixedly connected with a cleaning liquid storage tank, where the cleaning liquid is arranged in the cleaning liquid storage tank, and the cleaning liquid storage tank convey the cleaning liquid to the cleaning component through the main support rod; one side of the top end of the treatment tank body is provided with a transmission component, and the main support rod is in transmission connection with the transmission component. The invention has simple structure and convenient operation, saves water resources, ensures the cleaning effect, reduces the treatment cost and improves the treatment efficiency.

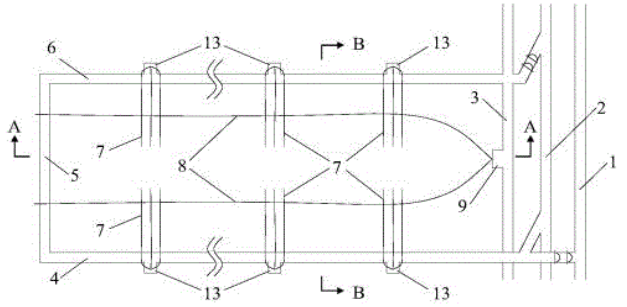


21: 2023/02435. 22: 2023/02/24. 43: 2023/05/18
51: E21B
71: University of Science and Technology Beijing, North China Institute of Science and Technology, China Coal Technology & Engineering Group Shenyang Research Institute Co. LTD., Chongqing University, Jiangsu Hengyichuang Intelligent Technology Co.LTD.
72: WANG Hongbing, CHENG Zhiheng, CHEN Liang, ZHAO Zhiyan, CHEN Haoyi, LIU Peng, ZOU Quanle, GUO Kai, KANG Ning, LIU Jiaqi

54: GAS EXTRACTION METHOD ADJACENT TO LOWER PROTECTED LAYER

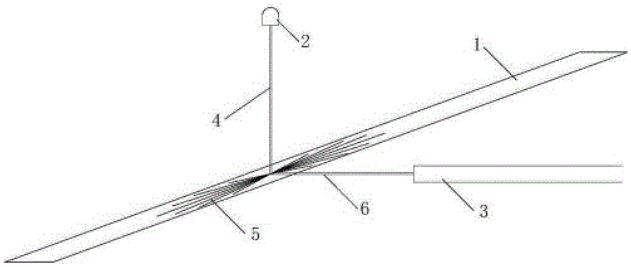
00: -

The invention discloses a gas extraction method adjacent to the lower protected layer, which mainly consists of a transportation lane, a return airway, floor inclined directional drilling holes, floor-oriented long-distance directional drilling holes and drilling sites. It is characterized in that the floor inclined directional drilling holes in the drilling sites of the transportation lane and the return airway in the protected layer working face are made, three directional drilling holes are constructed in each drilling site, and two floor-oriented long-distance directional drilling holes are constructed in the drilling site on the side of the return air upward roadway, and the floor inclined directional drilling holes and the floor-oriented long-distance directional drilling in the drilling sites of the transportation lane and the return airway form a floor directional drilling hole group. The gas extraction pipeline in the floor inclined directional drilling holes is merged into the gas extraction system pipeline of the transportation lane and the return airway respectively, and the gas extraction pipeline in the floor-oriented long-distance directional drilling holes is merged into the gas extraction system pipeline of the return air upward roadway to extract the gas in the pressure relief rock layer of the floor. The invention can realize efficient gas extraction adjacent to the lower protected layer.



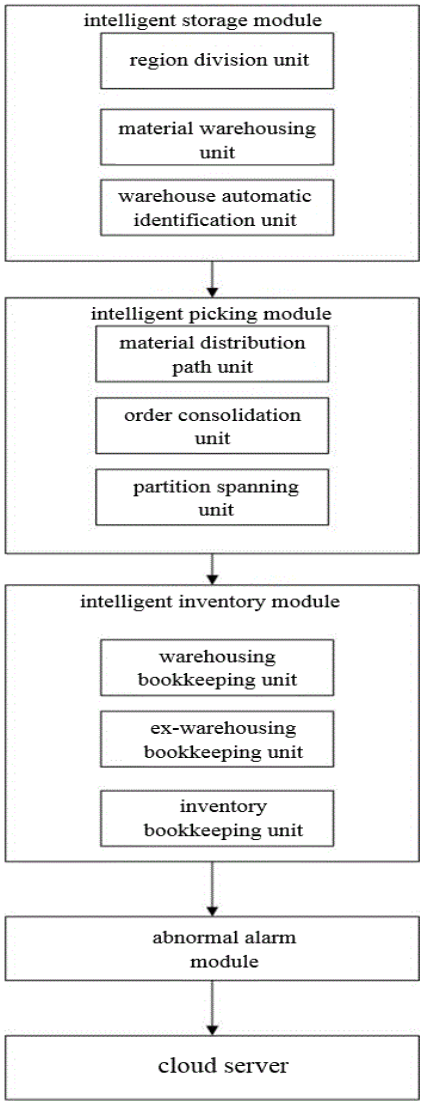
21: 2023/02436. 22: 2023/02/24. 43: 2023/05/18
51: E21B
71: North China Institute of Science and Technology, China University of Mining & Technology,Beijing,

Henan Polytechnic University, Jiangsu Hengyichuang Intelligent Technology Co.LTD., Kamiki City Energy Bureau
72: CHENG Zhiheng, XUE Ao, ZHANG Jingui, LI Zhenhua, LI Rui, ZHAO Zhiqiang, GAO Haobin, GUO Kai, LI Meichen, XU Zhenwei
54: METHOD OF THREE-DIMENSIONAL PUNCHING CROSS-CUT COAL UNCOVERING IN HIGH GAS OUTBURST COAL SEAM
00: -
The invention discloses a method of three-dimensional punching cross-cut coal uncovering in high gas outburst coal seam. The method is characterized in that a fracturing drill hole is constructed downward from the upper roadway of the uncovered coal seam to the coal uncovering position, and a comb-shaped drill hole is constructed at the coal uncovering position; high-pressure water is injected into the fracturing drill hole to hydraulically fracture the uncovered coal seam; the pressure relief drill hole is constructed in front of the tunneling face, and is communicated with the fracturing drill hole; high-pressure water is injected into the fracturing drill hole to fracture and punch the uncovered coal seam, so that the cracked and broken coal body and the gas in the coal seam are released into the cross-cut through the pressure relief drill hole under the action of high-pressure water, so as to reduce the gas content and gas pressure in the coal seam and the stress on the coal seam. After hydraulic fracturing and punching, block the pressure relief drill hole, inject cement slurry into the pressure relief coal seam in the outburst elimination area through the fracturing drill hole, and fill the space occupied by the coal body pressed by high-pressure water, so that the coal seam in the outburst elimination area of cross-cut coal uncovering can achieve the purpose of outburst elimination, which provides a guarantee for smooth and rapid coal uncovering in cross-cut.



21: 2023/02437. 22: 2023/02/24. 43: 2023/05/17
51: G05B

71: ShanDong JiaoTong University
72: YANG Chao
54: INTELLIGENT WAREHOUSING SYSTEM FOR LOGISTICS
00: -
The invention discloses an intelligent warehousing system for logistics, which comprises an intelligent storage module, an intelligent picking module, an intelligent inventory module, an abnormal alarm module and a cloud server; the intelligent storage module is used for automatic warehousing of materials and intelligent allocation of positions according to the production characteristics of materials; the intelligent picking module is used for automatically matching the bin of the corresponding materials in the path according to the distribution order to automatically issue; the intelligent inventory module is used for real-time automatic bookkeeping of material delivery and receipt, and real-time statistics of the actual quantity of materials in the bin; the abnormal alarm module is used for alarming the abnormal situation of wrong material distribution or inconsistent order quantity, and generating alarm information to send to the warehouse management personnel; the cloud server is respectively connected with the intelligent storage module, the intelligent picking module, the intelligent inventory module and the abnormal alarm module. The cloud server is used to realize the information interaction of each module. The invention effectively improves the fast storage efficiency of goods.

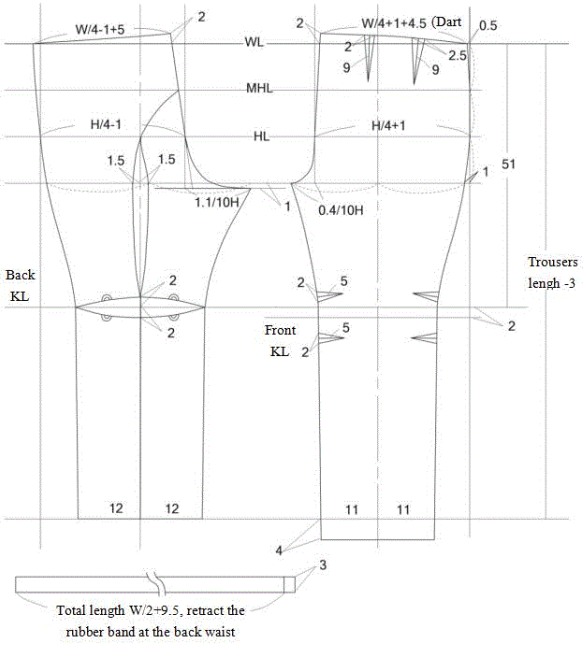


21: 2023/02439. 22: 2023/02/24. 43: 2023/05/17
51: A41D
71: Anhui Vocational and Technical College
72: REN Xiaoli, ZHANG Li, SU Wei, CHEN Shuzhen, ZHOU Yuqin

54: TROUSERS FOR ELDERLY WOMEN IN WHEELCHAIRS

00: -

The invention discloses trousers for elderly women in wheelchairs, which is composed of a waist head, a front trousers piece and a back trousers piece sewn and connected, wherein two first darts are respectively arranged above and below the front knee line, a second dart is arranged at the back knee line, a third dart is arranged at the crotch bottom of the back trousers piece, and the third dart is connected to form a seam, and a dividing line is arranged at the back trousers piece, and the dividing line passes through the second dart and the third dart, and an amount is added at the waist of the back upper crotch and crease line of the front leg opening. The invention has the advantages that it is more suitable for elderly women wheelchair users in terms of comfort, aesthetics and convenience of putting on and taking off, and is more conducive to their health.



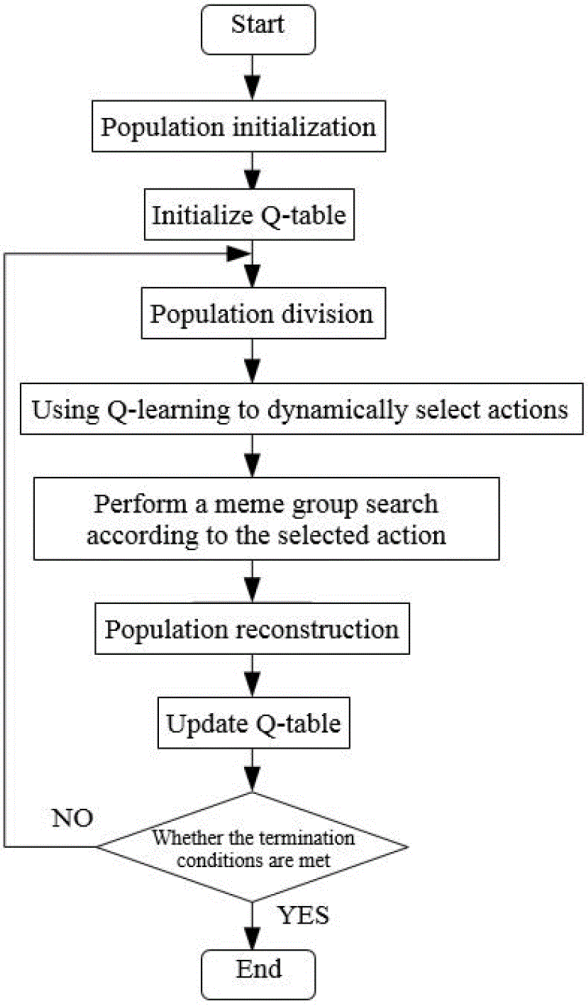
21: 2023/02440. 22: 2023/02/24. 43: 2023/05/17
51: G06Q
71: Anhui Polytechnic University
72: CAI Jingcao, WANG Lei, ZHANG Zhen, WANG Anheng, CHENG Long, HU Kongfu, ZHANG Xiaolong

54: METHOD FOR OPTIMIZING TOTAL DELAY TIME OF DISTRIBUTED HYBRID FLOW SHOP

00: -

The invention discloses a method for optimizing the total delay time of distributed hybrid flow shop, which is mainly to improve the shortcomings of traditional scheduling optimization methods in solving the scheduling problem of distributed hybrid flow shop. The main steps are as follows: (1) Three string representation of design problems.(2) Q-learning is embedded into the meme group search process of Frog Leap algorithm. The Q-learning algorithm consists of an action set composed of global search, neighborhood search and reconciliation acceptance criteria, and six states based on population elite

solution and dispersion. (3) In the process of running the algorithm, according to the state of the population, Q-learning is used to dynamically select the meme group search strategy to execute. The invention improves the quality of the distributed hybrid flow shop scheduling scheme, and can provide an efficient scheduling scheme for the workshop production process.



21: 2023/02441. 22: 2023/02/24. 43: 2023/05/18
51: G06F
71: Dr. M.Sri Ramachandra, Mr.Sidhartha Parida, Prof. (Dr.) Arnabaditya Mohanty, Mr.Pragati Ranjan Satpathy, Dr.Mihir Kumar Kar, Dr.Shaktiprasad Pradhan, Dr.Kanchana N.Dussa, Dr.Prithwiraj Mohapatra, Mr.Suhas Suresh Agey, Dr.Goje Arjun
72: Dr. M.Sri Ramachandra, Mr.Sidhartha Parida, Prof. (Dr.) Arnabaditya Mohanty, Mr.Pragati Ranjan Satpathy, Dr.Mihir Kumar Kar, Dr.Shaktiprasad Pradhan, Dr.Kanchana N.Dussa, Dr.Prithwiraj Mohapatra, Mr.Suhas Suresh Agey, Dr.Goje Arjun
33: IN 31: 202341000508 32: 2023-01-04
54: A SYSTEM FOR EARLY-STAGE DISEASE DETECTION AND HIGH-RISK PATIENT IDENTIFICATION AND WORKING METHOD THEREOF
00: -

The present invention discloses a system for early-stage disease detection and high-risk patient identification and working method thereof. In the present invention, a Unique Patient Identification module reliably and securely captures, stores, and disseminates a patient's essential medical and bioinformatics data to the appropriate parties; and a secure login portal that necessitates the input of personal information before granting access to a medical file of a patient; this portal must also include an emergency access code that grants only read-only access to the medical data of the patient in the event of an emergency. Further, a sensing and/or tracking mechanism allows for patient monitoring, location tracking, and rescue via alert triggers and database(s) having multiple patient files, each of which is associated with a patient and contains patient information, the patient information defining a medical history of the patient, the patient information contained in multiple fields within each patient file

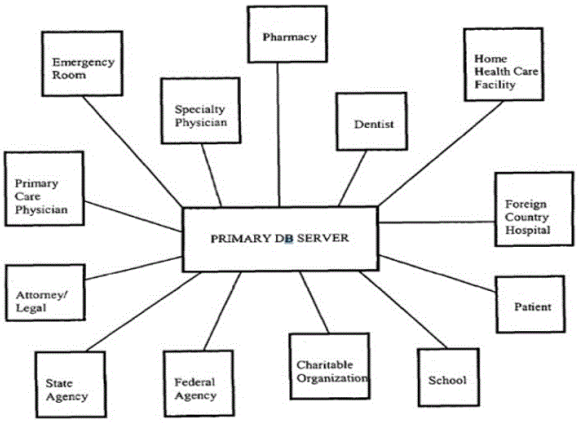
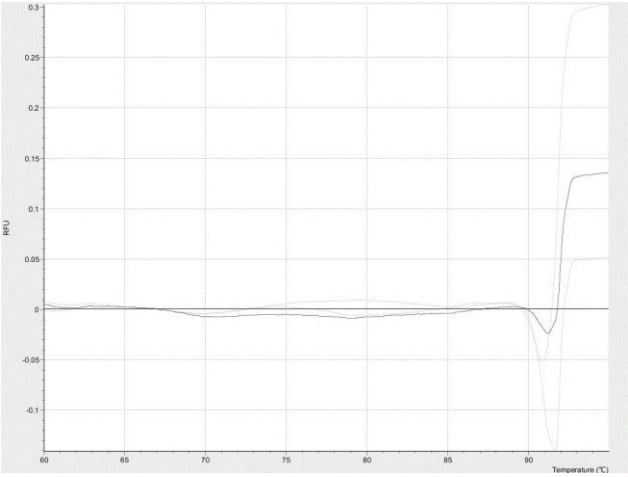


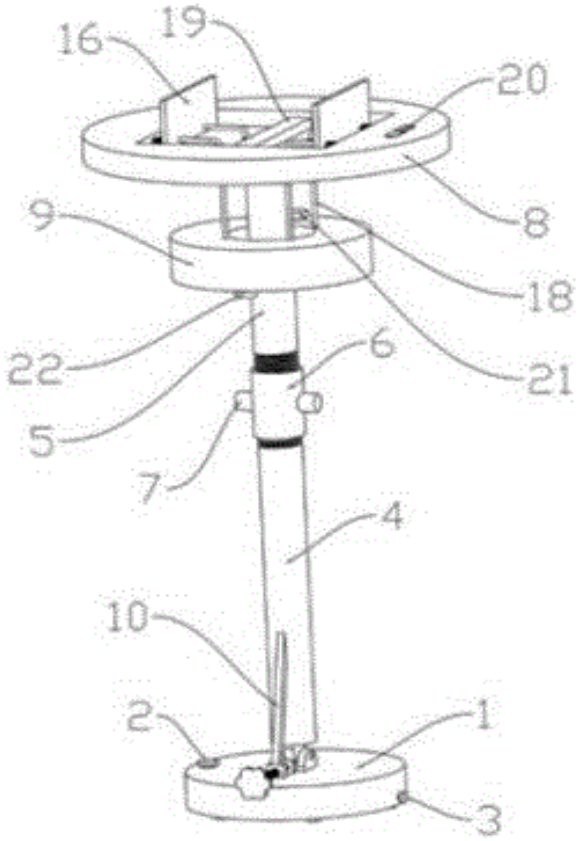
Fig. 1

21: 2023/02442. 22: 2023/02/24. 43: 2023/05/18
51: C12N; C12Q; G01N
71: SHANGHAI UNIVERSITY OF MEDICINE & HEALTH SCIENCES
72: PENG Nanqiu, CHEN Linjun, QIAN Zhiwang
54: RAPID DETECTION METHOD FOR LKB1 GENE MUTATION

00: -
The invention relates to a rapid detection method of LKB1 gene mutation. The invention designs wild-type primers and mutant primers of exon 8 (LKB1-E8) of LKB1, respectively amplifies the corresponding wild-type target fragments and mutant target fragments, mixes the two fragments in different proportions, so that the contents of mutant target fragments are 1/10, 1/100, 1/1000 and 0, and finally distinguishes them by HRM method; Compared with the prior art, the invention has the advantages of high specificity, high sensitivity and convenience; But also has higher flux and lower one-time cost.



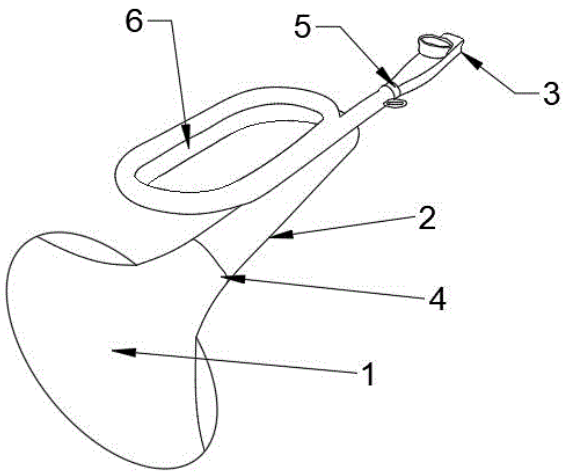
21: 2023/02443. 22: 2023/02/24. 43: 2023/05/17
51: E01D; G01B
71: Henan University of Urban Construction
72: XIA Yingzhi, YIN Zhenyu, LI Hui, HU Guoping, ZHANG Huiyuan, PAN Junkui, LIU Jiawei
54: BRIDGE CONSTRUCTION MONITORING DEVICE
00: -
The invention provides a bridge construction monitoring device, which comprises a support frame, wherein the support frame comprises a base, a first support rod, a second support rod, a screw sleeve, a water box and a support disk; the first support rod is rotatably assembled on the base, the first support rod is threadedly connected to the lower side of the screw sleeve, the second support rod is threadedly connected to the upper side of the screw sleeve, and the support disk is fixedly connected on the upper side of the second support rod; the support disk is connected with two opposite clamping plates for clamping the monitoring device through a return spring; the water box is sleeved on the second support rod, connected with the two clamping plates through a stay wires, and provided with a water outlet pipe and a water inlet pipe; a screw rod is rotatably assembled on the base, and the first support rod is connected with an inclined rod, and one end of the inclined rod far away from the first support rod is in threaded engagement with the screw rod, so that when the screw rod rotates, the inclined rod drives the first support rod to rotate. Compared with the prior art, the invention can adjust the support disk to a horizontal state, thus effectively avoiding the problem that the monitoring device falls.



21: 2023/02444. 22: 2023/02/24. 43: 2023/05/17
51: A01G
71: WANG Yueming, YANG Xiaoxuan, YANG Wenzhong, Xinjiang Academy of Forestry Sciences, Northwest Agriculture & Forestry University, Xinjiang Economic Forest Research Institute
72: WANG Yueming, YANG Xiaoxuan, YANG Wenzhong
54: METHOD FOR CULTIVATING QUERCUS ROBUR SEEDLINGS
00: -

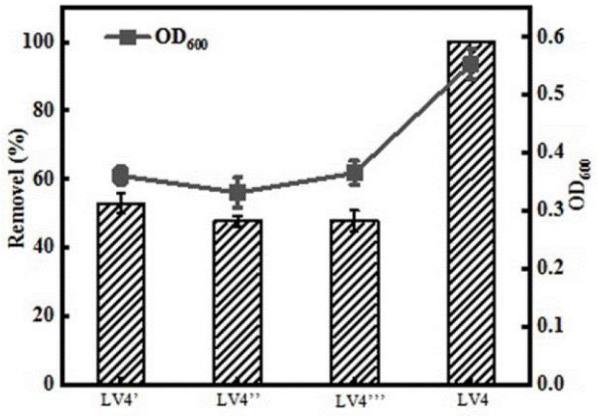
The invention discloses a method for cultivating Quercus robur seedlings, and belongs to the technical field of forestry seedling cultivation, comprising the following steps: soil preparation: selecting sandy loam plots with deep, loose and fertile soil layers as nursery grounds, ploughing deeply at the end of September, leveling after airing for two weeks, and finely raking and ploughing; bed-making: in mid-October, the land will be prepared in the north-south direction, with a plot width of 2.5 meters, 6 rows per plot and a ditch depth of 8-10 cm; sowing: put a seed every 10 cm in the ditch, cover the soil firmly, water it, and wait for emergence; Emergence: at the beginning of May of the following year, the Quercus robur grows small buds, two to four leaves a week later, and the first watering is carried out when it grows to a height of 5 cm; outplanting: in the fourth year of seedling emergence, ditch is made again, and organic fertilizer is supplemented, and the seedlings can be outplanted when they grow to 50-70 cm. By sowing in autumn, the invention not only simplifies the operation procedure, but also has high germination rate of Quercus robur seeds and strong seedlings, and reduces the loss caused by improper storage of seeds.

21: 2023/02447. 22: 2023/02/24. 43: 2023/05/17
51: G10D
71: Jiuling Gong
72: Jiuling Gong, Hefei Gong
54: A WIND INSTRUMENT MADE OF METAL
00: -
A wind instrument made of metal, comprises a mouthpiece, a sound tube and a horn; the upper and lower ends of the sound tube are respectively in detachable connection with the horn and the mouthpiece. The top of the sound tube is provided with an upper thread, the bottom of the sound tube is provided with a lower thread, the mouthpiece and horn are respectively connected to the sound tube through the upper thread and the lower thread. The invention amplifies the sound through the wide mouth of the metal tube, making the tone clearer and resonant. With vocal cords to voice, it is easier to play and to express emotions. The instrument is made of uniform metal material to ensure uniform tone and pure color. The horn and mouthpiece are detachable, which shortens the length of the instrument, and makes it convenient to carry. The separation lines guide the sound wave to spread outwards, which plays a role of correcting the sound wave, thereby improving the effect of sound quality. The invention is simple in structure, easy to use, and satisfies multiple needs of people.



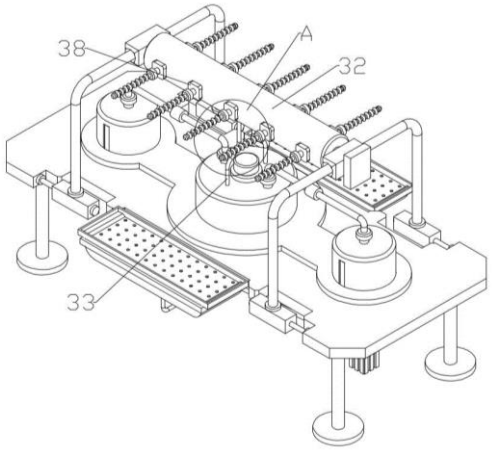
21: 2023/02450. 22: 2023/02/24. 43: 2023/05/17
51: C02F; C12N
71: Taiyuan University of Technology
72: WANG Ying, CHEN Hu, XU Mengdi, LV Yongkang
54: APPLICATION OF SALT-TOLERANT PYRIDINE DEGRADATION STRAIN IN TREATING HIGH SALT PYRIDINE AND QUINOLINE WASTEWATER
00: -
Disclosed is an application of a salt-tolerant pyridine degradation strain in treating high salt pyridine and quinoline wastewater; the strain is Rhodococcus sp. strain LV4, with a preservation number of CGMCC NO.25045; the strain may grow with pyridine as the only carbon and nitrogen source and completely degrade pyridine under salt-free and high-salt conditions with salinity ranging from 10 g/L to 60 g/L; and the strain may completely degrade pyridine as high as 900 mg/L under the high-salt condition of 40 g NaCl/L; after domestication, the strain may tolerate pyridine with a concentration as high as 2100 mg/L, and a pyridine removal rate may reach 95.54 percent after 72 hours; the strain may not only grow and completely degrade quinoline with quinoline as an only carbon and nitrogen source under high-salt conditions, but also degrade pyridine and quinoline

at the same time; and the coexistence of pyridine and quinoline accelerates the degradation of quinoline, having great significance for the treatment of high-salt wastewater containing pyridine and quinoline.



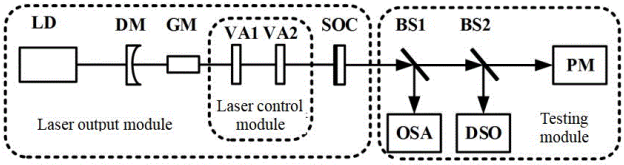
21: 2023/02451. 22: 2023/02/24. 43: 2023/05/17
51: A61M
71: TAIHE COUNTY PEOPLE'S HOSPITAL
72: Chuantao Chen
54: A MIXING AND APPLYING DEVICE FOR MEDICAMENT
00: -

The invention discloses a mixing and applying device for medicament, comprising a mixing table, supporting columns, a mixing cylinder, a push-up mixing mechanism with hole-vibration and an air-recovery jet disinfection mechanism. The supporting columns are provided in the bottom wall of the mixing table, and the mixing cylinder is provided through the middle part of the mixing table; the push-up mixing mechanism with hole-vibration is provided on the wall of the mixing table, the air-recovery jet disinfection mechanism is provided above the push-up mixing mechanism with hole-vibration; the push-up mixing mechanism with hole-vibration comprises medicament pushing mechanisms, the anti-drag oscillation mechanism, the rotating mixing mechanism, the pneumatic control mechanism and the downward pressure absorption mechanisms. The invention relates to the technical field of medical auxiliary devices, in particular to a mixing and applying device for medicament. The invention provides a mixing and applying device for medicament that can achieve mixing and vibration of medicament and realize the integration of cleaning and applying on the patient's wound.



21: 2023/02452. 22: 2023/02/24. 43: 2023/05/18
51: H01S; G06Q
71: SOUTHWEST UNIVERSITY
72: GAO Ziye, TANG Xi, DENG Tao, XIA Guangqiong, WU Zhengmao, LIN Xiaodong, FAN Li
33: CN 31: 2022111913624 32: 2022-09-28
54: DEVICE AND METHOD FOR CONTROLLING ALL-SOLID-STATE Q-SWITCHED LASER TO OUTPUT CHAOTIC LASER
00: -

The invention provides a device and a method for controlling an all-solid-state Q-switched laser to output chaotic laser. The device comprises a laser output module; the laser output module is used for outputting Q-switched laser in a period-one state; a laser control module is arranged in the laser resonant cavity in the laser output module, and the laser control module is used for controlling the round-trip loss of photons in the laser resonant cavity, so that the Q-switched laser evolves from the period-one state to the chaotic state. The invention realizes the control of chaotic output evolution path of all-solid-state Q-switched laser for the first time. This control mode is simple, easy to operate, easy to integrate, and does not damage the compact structure of all-solid-state Q-switched laser. Moreover, the all-solid-state Q-switched laser with controllable chaotic output evolution path has a good application prospect and commercial value in random number generation, pulse coding, pulse chaotic lidar and other fields.

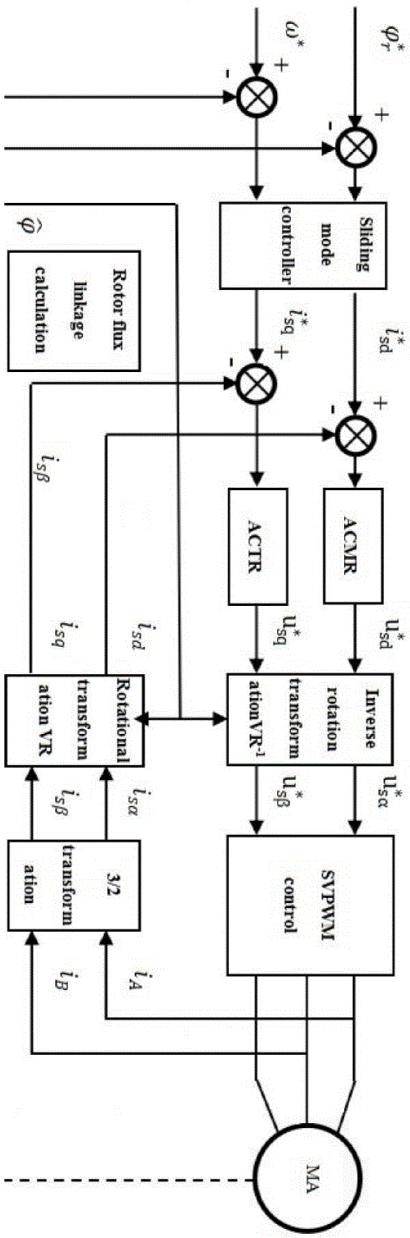


21: 2023/02453. 22: 2023/02/24. 43: 2023/05/17
51: H02P
71: BEIHUA UNIVERSITY
72: XU Yu, YANG Yong, WANG Shuangli, SHAN Chuanwen, XING Jisheng, BAI Jing

54: VECTOR VARIABLE FREQUENCY SPEED REGULATION METHOD OF HIGH-PERFORMANCE ASYNCHRONOUS MOTOR BASED ON SLIDING MODE VARIABLE STRUCTURE CONTROL

00: -

The invention discloses a vector variable frequency speed regulation method of a high-performance induction motor based on sliding mode variable structure control, which comprises the following steps: 1, establishing a mathematical model of a nonlinear induction motor; step 2, determining that the sliding mode is invariant with respect to unknown disturbance or parameter uncertainty; step 3, determine that reachability of the sliding mode; step 4, designing a variable structure control law; step 5, the designed sliding mode variable structure controller is applied to the induction motor variable frequency speed regulation system. The motion law before the induction motor variable frequency speed regulation system reaches the sliding mode surface depends on the structure and parameters of the inherent part of the system. When the system enters the sliding mode surface, sliding on the sliding mode surface is related to the parameters of the sliding mode surface, but independent of the system itself, so the change of system parameters or external disturbance has little influence on the sliding mode motion, that is, the system control performance, thus improving the anti-disturbance and robustness of the asynchronous motor vector variable frequency speed regulation system. Compared with the traditional method, the method of the invention is more applicable.



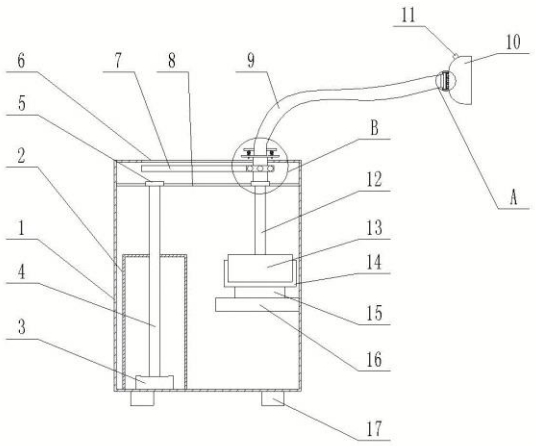
21: 2023/02454. 22: 2023/02/24. 43: 2023/05/17
51: A61M
71: The first affiliated hospital of bengbu medical college
72: YANG Mei, LIU Peipei, DONG Huaifu, RONG Daoxiang, HU Qingyan

54: ATOMIZING INHALATION DEVICE FOR PEDIATRICS

00: -

The invention discloses an atomizing inhalation device for pediatrics, which comprises a shell, wherein the top of the shell is provided with an opening, and a moving mechanism is slidably

connected in the opening; the bottom of the moving mechanism is detachably connected with a medicine supply assembly; the medicine supply assembly is fixedly connected with the inner wall of the shell; a conveying pipe is sleeved on the top of the moving mechanism; a mask is detachably connected with the top of the conveying pipe; a cleaning assembly is installed on one side far away from the medicine supply assembly in the shell; and the cleaning assembly is fixedly connected with the inner bottom surface of the shell. The invention is simple in structure and convenient to use, and the medicine supply assembly can heat the medicine and is convenient to clean after use, thus improving the practicability of the device.

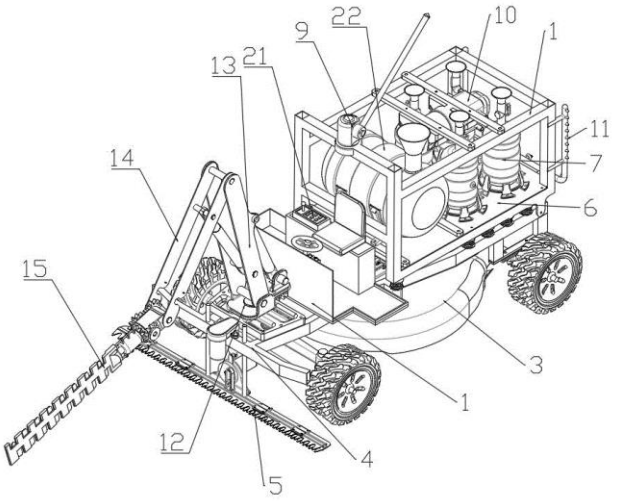


21: 2023/02456. 22: 2023/02/24. 43: 2023/05/17
51: A01G
71: Jintai Liang
72: Jintai Liang

54: AN URBAN LANDSCAPING VEHICLE

00: -

The invention discloses an urban landscaping vehicle, comprising a motor vehicle main body, a placement frame provided above the frame of the motor vehicle main body, a spraying system provided on the placement frame, a mowing device provided below the frame of the motor vehicle main body, a supporting frame provided on the front side of the driver's seat of the motor vehicle main body, a tree pruning device provided above the supporting frame, and a lawn trimming device provided below the supporting frame. The lower part of the placement frame is fixed with a base plate; the spraying system comprises a water cylinder and a plurality of medicine cylinders fixed above the base plate, a U-shaped tail spraying pipe fixed to the rear side of the placement frame, an aerial sprayer provided above the front side of the placement frame, and a water pump fixed to the placement frame; the outlet pipe of the water pump is connected to the U-shaped tail spraying pipe, and the U-shaped tail spraying pipe is evenly provided with nozzles. The invention integrates weeding, lawn trimming, tree pruning, pesticide spraying and watering to realize the multifunction device with simple operation and low labor intensity, achieving high efficiency and strong applicability.



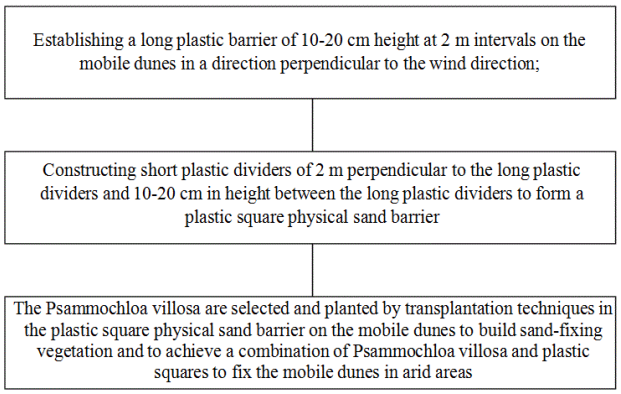
21: 2023/02459. 22: 2023/02/24. 43: 2023/05/17
51: E02D
71: Northwest Institute of Eco-Environment and Resources,CAS
72: REN Heng, ZHAO Wenzhi, YANG Qiyue, ZHUANG Yanli, KANG Jianjun, WANG Zhitao, HU Wenxin

54: METHOD FOR FIXING MOBILE SAND DUNES IN ARID AREAS BY COMBINING AND PLASTIC SQUARES

00: -

The present invention discloses a method for fixing mobile sand dunes by combining Psammochloa villosa and plastic squares in arid areas, comprising the following steps: establishing a long plastic barrier of 10-20 cm height at 2 m intervals on the mobile dunes in a direction perpendicular to the wind direction; constructing short plastic dividers of 2 m perpendicular to the long plastic dividers and 10-20 cm in height between the long plastic dividers to

form a plastic square physical sand barrier; the Psammochloa villosa are selected and planted by transplantation techniques in the plastic square physical sand barrier on the mobile dunes to build sand-fixing vegetation and to achieve a combination of Psammochloa villosa and plastic squares to fix the mobile dunes in arid areas. The invention overcomes the problems of short time, shortage of wheatgrass resources and low growth of Psammochloa villosa in the process of sand control using grass squares in the prior art, and reduces the degree of sand damage to a large extent by combining Psammochloa villosa and plastic squares in arid areas.

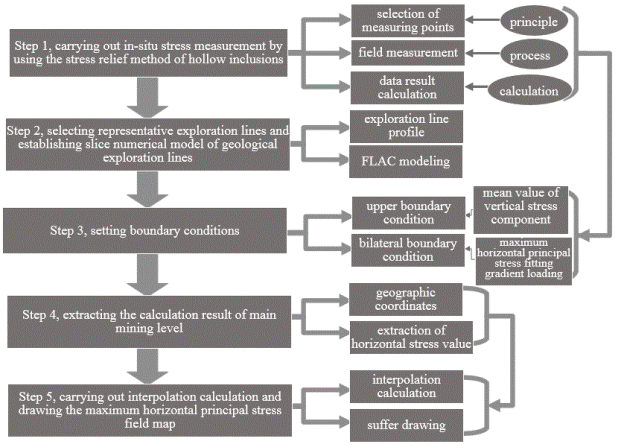


21: 2023/02460. 22: 2023/02/24. 43: 2023/05/17
51: G06F; G06T
71: Taiyuan University of Science and Technology
72: PANG Jiewen, XIE Jianlin, WANG Hao, HAO Hongde, HAO Yongjiang, LIANG Lei, SUN Xiaoyuan, YANG Shaoqiang

54: NUMERICAL SIMULATION ANALYSIS METHOD OF MAXIMUM HORIZONTAL PRINCIPAL STRESS FIELD IN LARGE-SCALE COMPLEX GEOLOGICAL AREA OF COAL MINE

00: -

The application discloses a numerical simulation analysis method of the maximum horizontal principal stress field in a large-scale complex geological area of a coal mine. The method comprises the following steps: step 1, according to the geological data and production conditions of the mining area, selecting appropriate measuring point positions, and carrying out in-situ stress measurement by using the stress relief method of hollow inclusions. Step 2, selecting representative exploration lines and establishing slice numerical model of geological exploration lines. Step 3, the boundary condition of the numerical model is determined by fitting the gradient loading conditions on both sides of the model with the average value of the vertical component of the measured geostress as the upper boundary condition. Step 4, according to the numerical calculation results, extracting the maximum horizontal principal stress value of the main mining level in the mining area. Step 5, drawing the maximum horizontal principal stress field of the main mining level in the mining area through interpolation calculation. According to the regional geological structure, the application establishes a numerical model of geological exploration line slice; according to the in-situ stress measured data of each part, fully considering the characteristics of bulk density of each part and the increase of maximum horizontal principal stress with buried depth gradient, the boundary conditions of the model are determined and numerical simulation is carried out. It can quickly and intuitively reflect the maximum horizontal principal stress field in a large-scale complex geological area of coal mine.



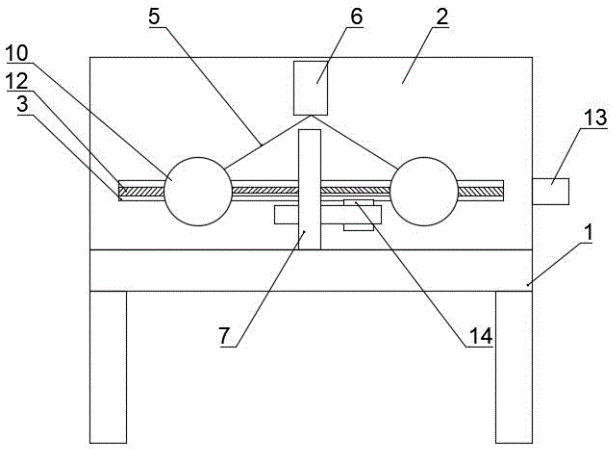
21: 2023/02461. 22: 2023/02/24. 43: 2023/05/17
51: G01N
71: ShanDong JiaoTong University
72: JIANG Han, CHEN Gandong, REN Lanzhu, CONG Xiaoying, LIU Guochao, XIAO Binyu, GONG Yonggang, ZOU Xiaoyue

54: DEVICE AND METHOD FOR DETECTING DEFECTS OF INDUSTRIAL ROBOT TRANSMISSION SYNCHRONOUS BELT

00: -

The invention disclose a device and a method for detecting defects of an industrial robot transmission synchronous belt, which comprise a detection

platform, wherein one side of the top end of the detection platform is fixedly connected with a support plate, and the support plate is provided with a transverse chute; two sides in the transverse chute are respectively provide with sliders; the sliders are provided with synchronous belt clamping components; the synchronous belt is arranged on the synchronous belt clamping components; a tensiometer is fixedly connected with the front end of the support plate; the tensiometer is correspondingly arranged with the synchronous belt; and a control component is arranged on the support plate. The slider is connected with the transverse chute in a sliding way through the control component, and the other side of the top end of the detection platform is fixedly connected with a three-axis moving table, and the three-axis moving table is provided with a visual detection component, which is correspondingly arranged with the synchronous belt. The invention has simple operation and wide application range, ensures the detection accuracy and improves the detection efficiency.



21: 2023/02462. 22: 2023/02/24. 43: 2023/05/17
51: A21D
71: Xi'an International University
72: WANG Hanping, WANG Yan, ZHANG Xiaoni, ZHANG Minli, YUE Zhiyong, WU Jia, WANG Jinpei
54: SELENIUM-ENRICHED DIETARY FIBER BISCUIT FOR PREVENTING DIABETES AND PREPARATION METHOD THEREOF
00: -
Disclosed is a selenium-enriched dietary fiber biscuit for preventing diabetes and a preparation method thereof, and relates to the technical field of food processing. In the invention, apple pomace powder, oat flour, buckwheat flour, adzuki bean flour and wheat flour are used as main raw materials, supplemented by mushroom powder, low-fat milk, eggs, olive oil, pumpkin, bitter gourd, celery, selenium-enriched green tea and other foods, and some vitamins, trace elements, medicinal and edible Chinese medicines and xylitol and other additives are added, and then the selenium-enriched dietary fiber biscuits are prepared through preparation and mixing of raw materials and auxiliary materials, dough preparation, baking and packaging. The biscuit has the functions of preventing diabetes, reducing blood sugar and preventing complications of type II diabetes.

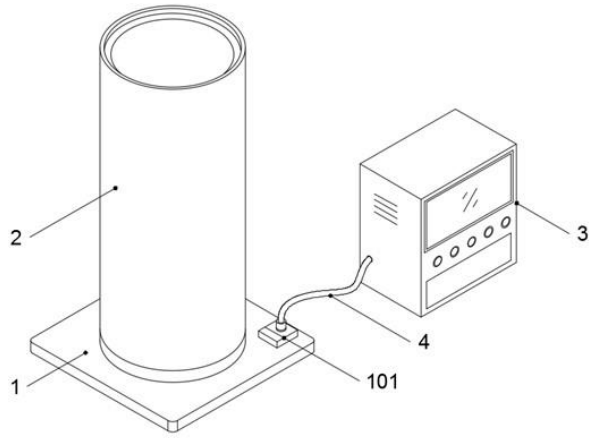
21: 2023/02466. 22: 2023/02/24. 43: 2023/05/17
51: A61K
71: Jinming Li
72: Jinming Li
54: A TRADITIONAL CHINESE MEDICINE FOR ALLEVIATING AND TREATING CEREBRAL ISCHEMIA
00: -
A traditional Chinese medicine for alleviating and treating cerebral ischemia, which consists of Radix Angelicae Sinensis, Radix et Rhizoma Notoginseng, Rhizoma Gastrodiae, Radix et Rhizoma Salviae Miltiorrhizae, Radix Panacis Quinquefolii, Semen Persicae, Rhizoma Chuanxiong, Eupolyphaga Steleophaga, Radix Puerariae Lobatae, Flos Carthami, Ganoderma, Caulis Spatholobi, Radix Paeoniae Rubra, Scolopendra, hirudo, Scorpio, Rhizoma Corydalis, Radix Curcumae, Radix Polygoni Multiflori, Pheretima aspergillum, Flos Chrysanthemi, Radix et Rhizoma Glycyrrhizae. Throughout the whole prescription of the invention, and all the above medicines can achieve the effects of promoting blood circulation and removing blood stasis, dredging the meridians and activating collaterals, dissipating blood stasis and relieving pain, through their synergistic effect of these medicines, they can effectively relieve symptoms such as dizziness, headache, nausea, and fatigue caused by insufficient blood supply to the brain, and effectively alleviate and treat cerebral ischemia, with good curative effect, quick effect, no side effects and not easy to relapse.

21: 2023/02467. 22: 2023/02/24. 43: 2023/05/30
51: F24H; F26B
71: GANSU DESERT CONTROL RESEARCH INSTITUTE, GANSU EARTHQUAKE AGENCY (LANZHOU EARTHQUAKE RESEARCH INSTITUTE)
72: ZHANG, Huiwen, WU, Zhen, CAO, Lei, SONG, Longlong, ZHANG, Zhiping, LIU, Shiquan, QI, Fujun

54: NOVEL HEATING DEVICE FOR LOW-TEMPERATURE VACUUM EXTRACTION SYSTEM AND HEATING METHOD THEREOF

00: -

The present invention discloses a novel heating device for a low-temperature vacuum extraction system, comprising a fixed base. A heating device is vertically and fixedly mounted at a top end of the fixed base; the heating device comprises a thermal sleeve; the thermal sleeve is fixedly mounted with the fixed base; a heating sleeve is mounted inside the thermal sleeve; an outer wall of the heating sleeve and an inner wall of the thermal sleeve are attached to each other; a heating coil is embedded in the heating sleeve; and the heating coil is uniformly wound inside the heating sleeve.

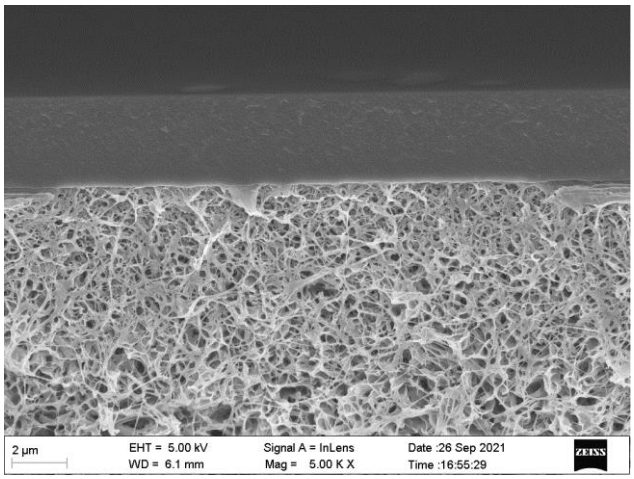


21: 2023/02470. 22: 2023/02/24. 43: 2023/05/17
51: B01D
71: Northwest University
72: HAN Xiaolong, SHANG Hongtao, PAN Yuankai, XU Jianan, HU Qianqian, ZOU Wenhao

54: GAS SEPARATION MEMBRANE, PREPARATION METHOD AND APPLICATION THEREOF

00: -

The invention discloses a gas separation membrane and a preparation method and application thereof, and belongs to the technical field of gas separation. According to the invention, ring-opening polymerization of hexachlorocyclotriphosphazene is carried out by a chemical reaction method to obtain an intermediate poly (dichlorophosphazene), and then the intermediate poly (n-propylamine) is reacted with n-propylamine to generate poly (n-propylamine phosphazene), which is scraped on a polytetrafluoroethylene (PVDF) support layer to prepare a PPA/PVDF gas separation composite membrane.



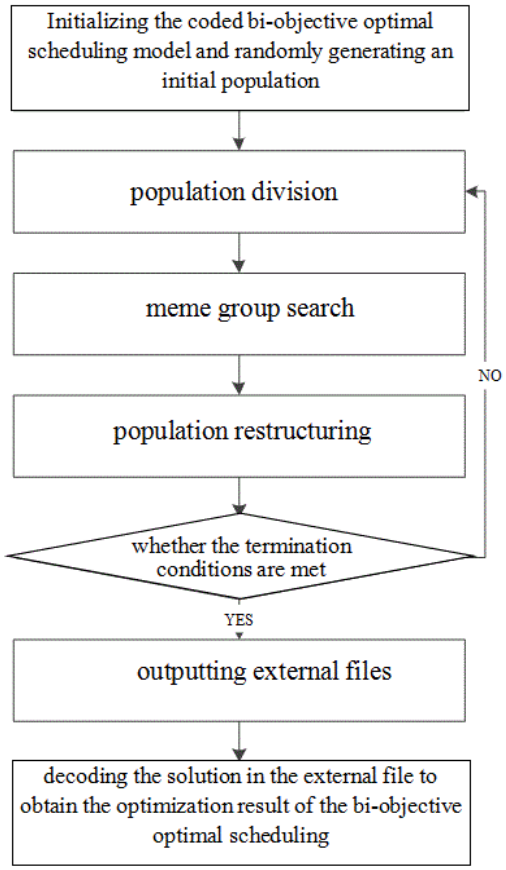
21: 2023/02471. 22: 2023/02/24. 43: 2023/05/17
51: G06Q
71: Anhui Polytechnic University
72: CAI Jingcao, WANG Lei, ZHANG Zhen, WANG Anheng, CHENG Long, HU Kongfu, ZHANG Xiaolong

54: BI-OBJECTIVE OPTIMAL SCHEDULING METHOD BASED ON HYBRID FLOW SHOP

00: -

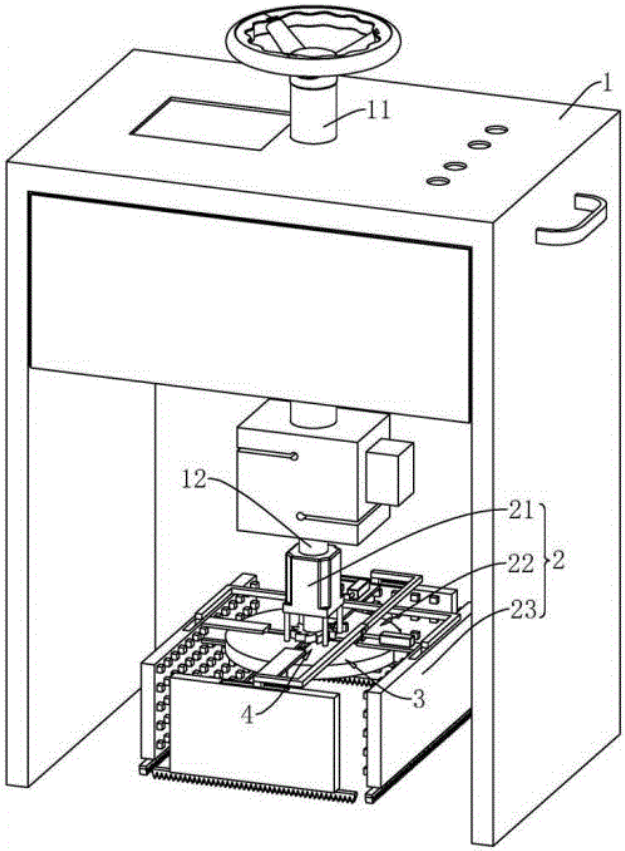
The invention relates to the technical field of workshop scheduling, and in particular to a bi-objective optimal scheduling method based on the hybrid flow shop, which constructs a bi-objective optimal scheduling model of the hybrid flow shop to determine the constraints of the scheduling process, initializes the coded model of the bi-objective optimal scheduling problem of the hybrid flow shop, randomly generates the initial population, distributes the generated solution to the meme group for population division, and executes the search process for all meme groups according to the quality of the meme group; the evolutionary quality determines whether meme groups participate in population reconfiguration, which can provide high-

quality scheduling schemes for distributed hybrid flow shop with bi-objective optimization, and has significant advantages over existing scheduling methods.



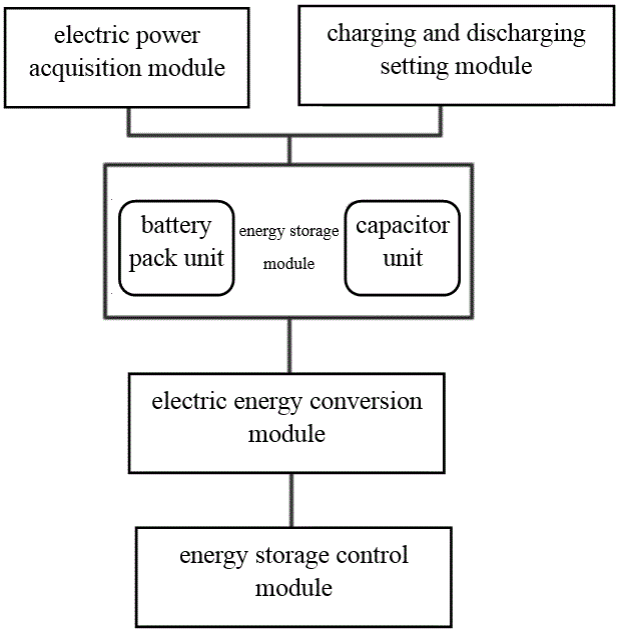
21: 2023/02472. 22: 2023/02/24. 43: 2023/05/17
51: C12G
71: Hainan Tropical Ocean University
72: HU Yaqin, HU Zhiheng, TAN Zheng
54: PREPARATION METHOD OF OCEAN WATER RICE WINE
00: -
The invention provides a preparation method of ocean water rice wine, belonging to the technical field of research and development of fermented products. The preparation method of the invention replaces ordinary pure water with deep ocean water purified by reverse osmosis, and adds rice and distiller's yeast (bran, yeast) for fermentation to obtain rice wine products with light wine aroma, harmonious smell, and sweet and delicious taste. The preparation method of ocean deep water rice wine comprises the steps of soaking, steaming, cooling, distiller's yeast mixing, fermentation, distillation and the like. The invention aims at preparing a ocean deep water rice wine product with sweet and delicious taste, rich nutritional value and broad market prospect. This product caters to people's pursuit of healthy diet and quality of life, and has the characteristics of low alcohol content and pure wine fragrance.

21: 2023/02473. 22: 2023/02/24. 43: 2023/05/17
51: G01D
71: Beijing Building Research Institute CO., LTD. OF CSCEC, Beijing NO.6 Construction Engineering Quality Test Department CO., LTD., China Construction First Group Corporation Limited, Hebei Xiong'an Kecheng Inspection Certification CO., LTD.
72: ZHANG Xuewei, JIANG Zhisheng, ZHANG Hao, CHEN Kang, CAI Qian, XU Dandan, LIU Mian, LI Xiaoxiao, LI Shiwei, LI Chengfei, GUO Wulin, JIANG Liwei
54: EQUIPMENT FOR MEASURING BONDING STRENGTH BETWEEN EXTERNAL WALL INSULATION BOARD AND BASE WALL
00: -
The invention discloses equipment for measuring the bonding strength between an external wall insulation board and a base wall, belonging to the technical field of external wall insulation board detection. The key point of the technical scheme is that the device comprises a host machine and a pull-rod quick connector connected with the host machine, where the pull-rod quick connector is vertically arranged; a clamping device for clamping an insulation board test block is arranged at the bottom of the pull-rod quick connector; the clamping device comprises a clamping motor, a connecting assembly and a clamping piece; the clamping motor is fixed with the pull-rod quick connector; the connecting assembly is arranged between the clamping motor and the clamping piece for connecting the clamping motor and the clamping piece, and a plurality of clamping pieces are arranged, and the clamping pieces are arranged at equal intervals around the center line direction of the pull-rod quick connector, and the clamping pieces are arranged away from the pull-rod quick connector, so that the defect of low test efficiency of the electric bonding strength detector is improved.

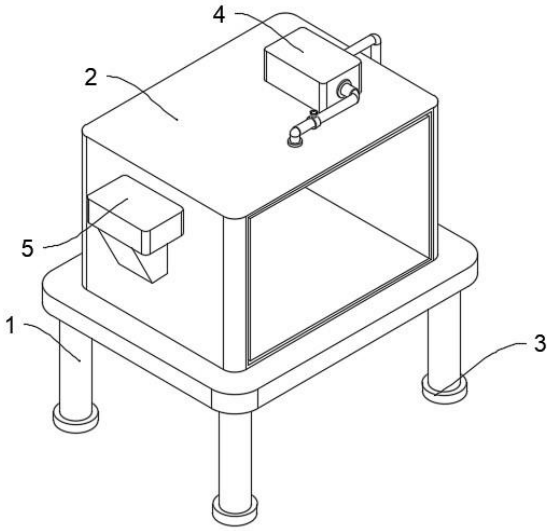


21: 2023/02474. 22: 2023/02/24. 43: 2023/05/17
51: A01N
71: Northwest A&F University
72: Xiaojiao WANG, Rui WANG, Jing ZHANG, Feifei SU, Lei WEN, Xiyi ZHANG, Gaihe YANG
54: PREPARATION METHOD AND APPLICATION OF MODIFIED FRUIT BRANCH BIOCHAR
00: -
The present invention discloses a reparation method of modified fruit branch biochar and its application. It relates to the technical field of resource utilization and modified biochar. The preparation method of the modified fruit branch biochar includes the following steps: crushing the fruit branch, pyrolyzing it under a modified atmosphere, and obtaining ammonia-modified fruit branch biochar after cooling; the modified atmosphere is specifically a gas mixture of ammonia and nitrogen in the ratio of 3:1 by volume; placing the ammonia-modified fruit branch biochar in an alkaline solution for secondary modification, and obtaining ammonia-alkali-modified fruit branch biochar. By modifying the fruit branch biochar twice, the specific surface area and pore capacity of the biochar are significantly increased and the pore size is smaller, which significantly improves its adsorption performance compared to the unmodified biochar and the primary modified biochar.

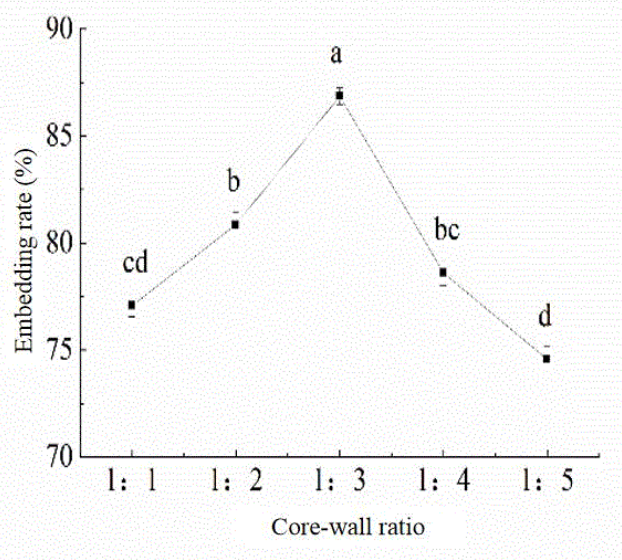
21: 2023/02475. 22: 2023/02/24. 43: 2023/05/17
51: G06Q
71: TANGSHAN UNIVERSITY
72: GUO Yaohua, FAN Yan
54: ENERGY-SAVING INTELLIGENT CONTROL SYSTEM FOR INDUSTRIAL ELECTRICITY
00: -
The invention discloses an energy-saving intelligent control system for industrial electricity, which comprises: the electric power acquisition module is used for transmitting industrial surplus power to the energy storage module; the charging and discharging setting module is used for setting the charging and discharging power of the energy storage module; the energy storage module is used for high-frequency and low-frequency charging and discharging; the electric energy conversion module is used for controlling the charging and discharging power of the energy storage module; the energy storage control module is used for setting a punishment rule and adjusting the charge and discharge power control of the electric energy change module according to the punishment rule. By charging and discharging the battery pack unit and the capacitor unit at the same time, the timely supply of industrial electricity is realized, and the reasonable utilization of energy is ensured. By setting the initial power of system charging and discharging, the target power is set for the battery pack unit and the capacitor unit according to the initial power, and the power is distributed to the battery pack unit and the capacitor unit respectively, and at the same time, a punishment rule is set for error adjustment, thus ensuring the stability of the system.



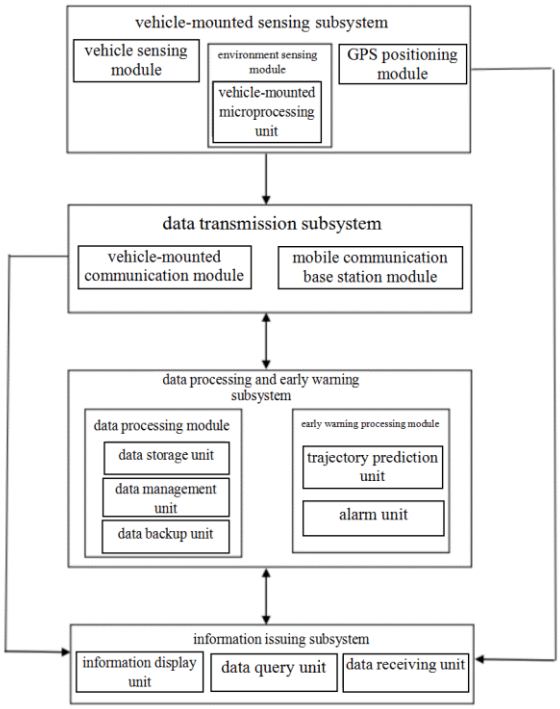
21: 2023/02484. 22: 2023/02/24. 43: 2023/05/30
51: G01N; G09B
71: GANSU EARTHQUAKE AGENCY (LANZHOU EARTHQUAKE RESEARCH INSTITUTE), GANSU DESERT CONTROL RESEARCH INSTITUTE
72: WU, Zhen, ZHANG, Huiwen, CAO, Lei, SONG, Longlong, ZHANG, Zhiping
54: GLACIER SLIDING MONITORING SIMULATION DEVICE
00: -
The present invention provides a glacier sliding monitoring simulation device, and relates to the technical field of glacier sliding monitoring simulation, comprising a simulation frame body. A sealed box body is installed on top of the simulation frame body; a groove is formed in the bottom of the sealed box body; support columns are installed in the groove; an electric telescopic rod is installed on one side of each support column; fixing frames are installed on top end surfaces of the electric telescopic rod and support column; fixing plates are installed on the top of each fixing frame; a sensor is embedded and installed on the surface of each fixing plate; heating wires are installed between inner walls of the fixing frame; a storage battery set is installed on one side of the bottom end of the fixing frame; and the storage battery set is connected to the heating wires.



21: 2023/02489. 22: 2023/02/24. 43: 2023/05/18
51: A61K
71: Henan University of Technology
72: ZHAO Yan, LIU Kunlun, ZHANG Huan
54: PREPARATION METHOD OF POLYPHENOL MIXTURE MICROCAPSULE
00: -
Disclosed is a preparation method of polyphenol mixture microcapsules, belonging to the technical field of microcapsule preparation. The preparation method of polyphenol mixture microcapsules, including the following steps: mixing sodium alginate solution with carboxymethyl cellulose solution to obtain wall material solution, adding polyphenol mixture powder into the wall material solution for mixing, performing ultrasonic treatment to obtain mixed solution, dropping the mixed solution into calcium chloride solution for microwave treatment for 3-5 min, curing and embedding, filtering, and freeze-drying to obtain the polyphenol mixture microcapsule; a power of microwave treatment is 300-500 W; and the polyphenol mixture is procyanidine. In the invention, carboxymethyl cellulose and sodium alginate are compounded as wall materials to embed procyanidine, so that the problems of high porosity and poor mechanical properties of microcapsules prepared by sodium alginate are solved, the preparation conditions are optimized, and the embedding rate of procyanidine is improved by a simple, mild and low-cost method.

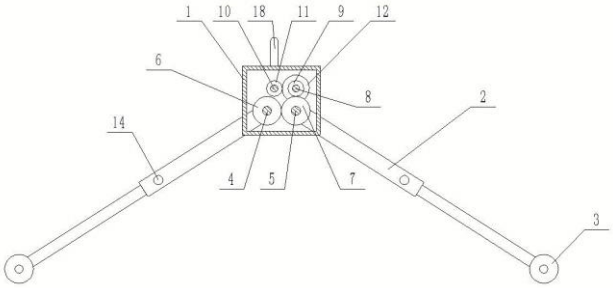


21: 2023/02491. 22: 2023/02/24. 43: 2023/05/18
51: G08G; B60W
71: Shenyang University of Technology
72: LI Yahong, ZHANG Yunfei, LI Xin
54: HUMAN-VEHICLE COOPERATIVE SENSING SYSTEM FOR EARLY WARNING
00: -
The invention provides a human-vehicle cooperative sensing system for early warning, which comprises a vehicle-mounted sensing subsystem is used for collecting vehicle running data and external environment data; a data transmission subsystem is used for realizing the transmission of the vehicle running data and the external environment data; a data processing and early warning subsystem is used for processing the vehicle running data and the external environment data to obtain traffic data and giving early warning or real-time alarm to abnormal traffic data; an information issuing subsystem is used for automatically receiving and issuing traffic information, early warning information and alarm information of the data processing and early warning subsystem. The invention not only aims at moving vehicles and traffic roads, but also incorporates non-motor vehicles and pedestrians into the system, thus greatly improving the road safety of non-motor vehicles and improving the road traffic capacity.

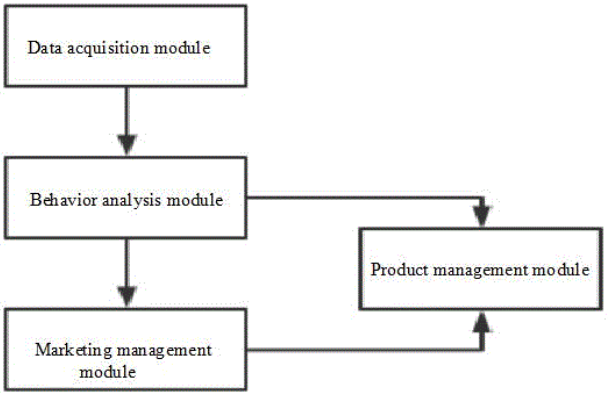


21: 2023/02492. 22: 2023/02/24. 43: 2023/05/18
51: A61H; A63B
71: Anhui Polytechnic University, Hangzhou Yuxin Sports Co., Ltd
72: ZHANG Zhenlin, WEI Yuhui, WANG Ren, ZHANG Hui, LI Daofeng, LI Kun, ZHANG Haojie, LI Mingming, TENG Anqi
54: CROSS FORK AUXILIARY DEVICE
00: -
The invention discloses a cross fork auxiliary device, which belongs to the technical field of fitness equipment, and comprises a supporting shell, wherein the bottom of the supporting shell is provided with an opening, and two supporting plates are arranged in the opening, and the supporting plates are rotationally connected with the supporting shell, and the two supporting plates are symmetrically arranged on both sides of the supporting shell; a transmission mechanism is arranged in the supporting shell, a handle is rotatably connected to the outer wall of the supporting shell, and the handle is in transmission fit with the two supporting plates through the transmission mechanism; one end of the supporting plate far away from the supporting shell is rotatably provided with a roller. According to the transverse cross fork auxiliary device provided by the invention, the user can control the unfolding angles of the two

supporting plates by himself through the handle, so that the user can control the strength of the transverse fork and improve the exercise effect of the user, and the ligament damage of the user during training can be avoided, so that the safety is high.

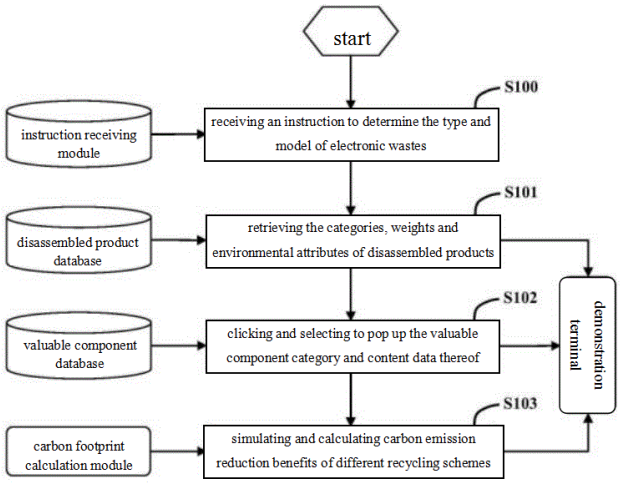


21: 2023/02493. 22: 2023/02/24. 43: 2023/05/18
51: G06Q
71: Shenyang University of Technology
72: LIU Peng, SONG Qian, GAO Yang
54: INTELLIGENT MARKETING MANAGEMENT SYSTEM
00: -
The invention discloses an intelligent marketing management system, which comprises a data acquisition module, a behavior analysis module, a product management module and a marketing management module; The data acquisition module is used for acquiring user data and shopping comprehensive information; The behavior analysis module is used to obtain user categories and consumption preferences according to the analysis of shopping comprehensive information; The product management module is used to add keywords to products according to user categories and consumption preferences, and bind marketing schemes with products; The marketing management module is used to generate the marketing plan and to evaluate and correct the marketing plan. In the invention, the user's consumption ability is obtained according to the iteration period of the product and the user's shopping consumption data, so that the influence of accidental consumption on the positioning of the user's consumption ability is effectively avoided, and the user's consumption preference is obtained through browsing records, browsing time and consumption records, so that accurate marketing is realized, the relationship among commodities, users and marketing strategies is established, and the user experience and marketing effect are improved.



21: 2023/02494. 22: 2023/02/24. 43: 2023/05/18
51: B09B; G06Q
71: Shanghai Polytechnic University
72: SONG Xiaolong, HUANG Qing, BAI Jianfeng, WU Wenjie, ZHUANG Xuning, ZHAO Jing
54: DEMONSTRATION METHOD AND SYSTEM FOR RECYCLING ELECTRONIC WASTES
00: -
The invention disclose a demonstration method and a system for recycling electronic wastes. The invention demonstrate that multidimensional characteristic information involved in the typical electronic wastes resource proces, which comprises the following steps: receiving an instruction to determine the type and model of electronic wastes; retrieving and displaying the categories, weights and environmental attributes of disassembled products of specific electronic wastes from the disassembly database; aiming at each disassembled product, clicking and selecting to pop up the periodic table of elements, and completing the visualization of the valuable component category and content data thereof; according to the determined categories of electronic wastes and their disassembled products, selecting different recycling technical schemes to simulate and calculate their carbon footprints, and converting them into carbon emission reduction benefits and the number of trees equivalent to planting trees. The invention can enhance the public's understanding of the resource and environmental effects of electronic wastes recycling and treatment activities, and then reasonably classify and treat wastes in daily life; it can also provide data support for teaching, research and

management in the field of electronic wastes recycling.

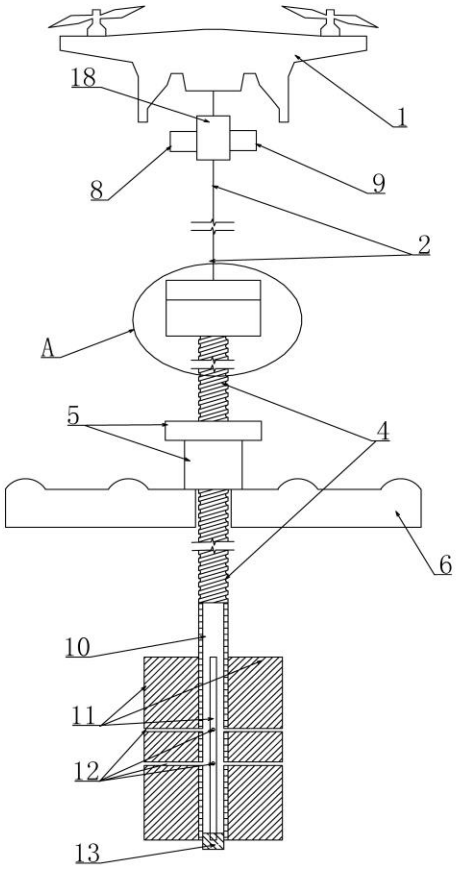


21: 2023/02495. 22: 2023/02/24. 43: 2023/05/18
51: G01N
71: Zhengzhou University of Aeronautics
72: ZHANG Mingfei, WANG Kaiwen, XU Ming, GU Zhanfei, LUO Yaofei, WEI Xiaogang, SHI Xiaoge, DOU Guotao, HU Zhaoguang, LI Guanghui, YANG Yandong, ZHAO Ruiying, HE Kun, XI Wu

54: IN-SITU TESTING EQUIPMENT FOR LARGE-AREA SOFT SOIL

00: -

The invention relates to an in-situ testing equipment for large-area soft soil, which effectively solves the problems that the existing device is inconvenient to move and the testing process is inconvenient when large-area soft soil is in-situ tested. The technical scheme to be solved includes that the device can realize the in-situ test of large-area soft soil by combining the UAV technology with the vane shear device with high recognition, and using the ball screw to convert the vertical force into torque and load it in the vane shear device. Moreover, the device is light in structure and novel in design, and the device can be quickly and efficiently delivered to the large-area soft soil area by using the UAV platform.



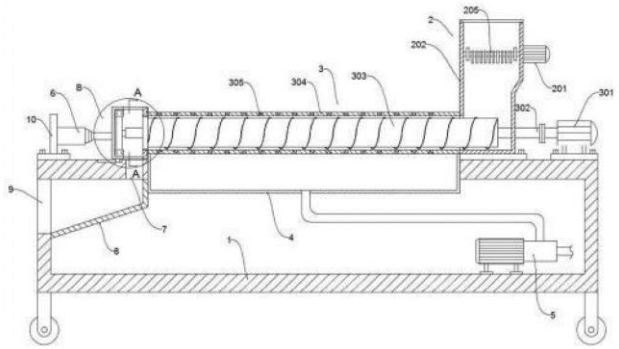
21: 2023/02496. 22: 2023/02/24. 43: 2023/05/18
51: A47J
71: Institute of Agricultural Products Processing, Jiangxi Academy of Agricultural Sciences
72: LIU Guangxian, HUANG Jinqing, ZHANG Yao, WANG Hui, ZHOU Changsheng, LI Xue, CHENG Wenlong, WANG Li, MAO Saisai, LI Wangang

54: ASPARAGUS JUICING DEVICE CONVENIENT FOR CLEANING

00: -

The invention discloses an asparagus juicing device convenient for cleaning, which comprises a crushing mechanism, where the crushing mechanism is used for chopping asparagus, and the chopped asparagus is put into the squeezing mechanism; the squeezing mechanism comprises a juicing cylinder, a plurality of meshes are arranged on the side wall of the juicing cylinder at intervals, a spiral conveying roller is arranged in the juicing cylinder, a first turntable is arranged at one end of the spiral conveying roller far from the crushing mechanism, and a first fixing sleeve is arranged at the periphery of the first turntable; the cross section of the juicing cylinder

gradually narrows from one end close to the crushing mechanism to one end close to the first turntable; one end of the first fixing sleeve abuts against the crushing cylinder; the edge of the other end of the first fixing sleeve is fixedly connected with the second fixing sleeve through a connecting rod; and the end of the second fixing sleeve far from the transmission rod is connected with the moving mechanism. In the process of conveying asparagus by the spiral conveying roller, asparagus can be continuously squeezed, so that the asparagus juicing efficiency is high; and meanwhile, the juicing cylinder is convenient to be cleaned in a full range without blind angles.

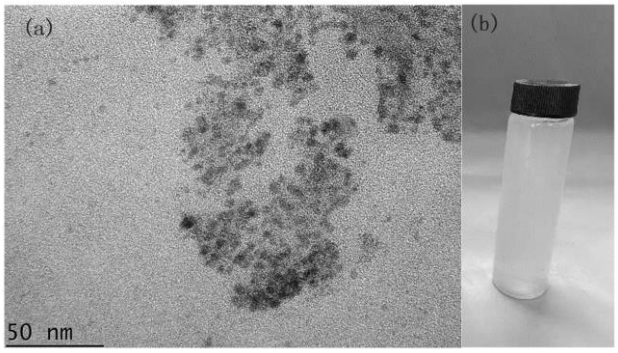


21: 2023/02497. 22: 2023/02/24. 43: 2023/05/18
51: A23L; B01D
71: SUZHOU UNIVERSITY, Anhui Meirunshi Paint Co., LTD
72: OUYANG Wenzhu, ZHUO Xin, GAN Changjun, LIU Jiajian, WU Yongjun, CHEN Shifu, ZHANG Ligang, XU Zhenhua
54: REFINED ELSHOLTZIA PLANT VOLATILE OIL AND EXTRACTION METHOD THEREOF
00: -
The invention belongs to the technical field of plant volatile oil extraction, and provides a refined Elsholtzia plant volatile oil and an extraction method thereof, which comprises the following steps: (1) drying Elsholtzia stems and Elsholtzia leaves to obtain dried Elsholtzia; (2) mixing the dried Elsholtzia in step (1) with water and performing ultrasonic treatment; (3) distilling the Elsholtzia after the ultrasonic treatment in step (2) to obtain a primary product of Elsholtzia plant volatile oil; (4) centrifuging the primary product of Elsholtzia plant volatile oil in step (3), and then extracting by supercritical fluid method to obtain refined Elsholtzia plant volatile oil. The preparation method of Elsholtzia plant volatile oil has the advantages of simple operation, low cost, energy saving, time saving and high efficiency. The product extracted by this method has high content of effective active ingredients, and has a wide application prospect in spices, food additives, medicines, daily chemical product additives, pesticides, antibacterial materials and so on.

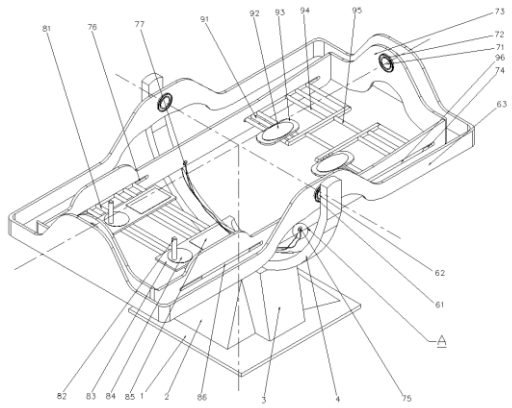


21: 2023/02498. 22: 2023/02/24. 43: 2023/05/18
51: C01G
71: Shantou Polytechnic
72: WANG Shen, CHEN Qi
54: ZINC SULFIDE QUANTUM DOTS MODIFIED TITANIUM DIOXIDE AND PREPARATION METHOD THEREOF
00: -

The invention discloses a zinc sulfide quantum dots modified titanium dioxide and a preparation method thereof, and belongs to the technical field of photocatalysis. The preparation method of zinc sulfide quantum dots modified titanium dioxide comprises the following steps: (1) evenly mixing an organic sulfur source, a modifier and a stabilizer, then adding the zinc source, mixing and heating to obtain zinc sulfide quantum dots with modified surfaces; (2) under the condition of ice-water bath, the mixed solution of zinc sulfide quantum dots with modified surface and organic solvent is dripped into the mixed solution of titanium source and acid solution, and the mixture is continuously stirred during the dripping process until precipitation occurs, and the zinc sulfide quantum dots modified titanium dioxide is obtained after centrifugation. In the invention, zinc sulfide quantum dots modified titanium dioxide (titanium dioxide loaded zinc sulfide quantum dot nano material) is prepared in-situ under the condition of normal temperature and water phase, without additional heating.

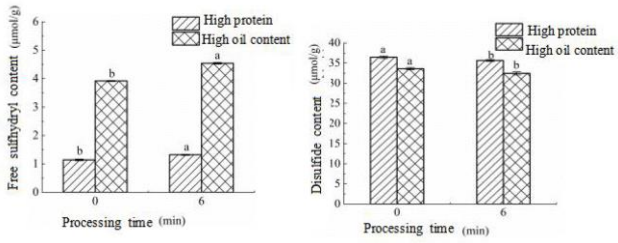


21: 2023/02499. 22: 2023/02/24. 43: 2023/05/18
51: A63B
71: Shenyang University of Technology
72: GUO Hui, HUANG Fu, ZHAI Xiaoning, LIU Yunting, SUN Feng, XU Fangchao, LI Qiang, ZHANG Ming, TONG Ling, JIN Junjie, LIU Tong, AI Shiping, JIANG Hongbo, ZHAO Meng, MA Yaning, LI Bohan, XIN Xiuyong, LI Yifei
54: SELF-BALANCING TRAINING AND PROTECTION EQUIPMENT
00: -
The present invention provides a self-balancing training and protection equipment comprises a base, wherein a base reinforcing plate is mounted on the base, and an arc-shaped support frame is mounted on the base reinforcing plate through a base column, outer frame shafts are arranged at the inner sides of two ends of the arc-shaped support frame, the outer frame shaft is mounted on the left and right sides of an outer frame through an outer frame bearing, the front and rear sides of the inner end of the outer frame are provided with inner frame shafts, the inner frame shaft is mounted with an inner frame through an inner frame bearing, and the inner side of the inner frame is provided with an upper limb supporting mechanism and a lower limb supporting mechanism. By setting the limb support structure that can rotate freely along the X and Y axes, the hip area of the user can move freely and ensure that the user can move his center of gravity to a balanced position, thus achieving particularly comfortable operation for subsequent training. At the same time, the device can respond to the movement and change of the body very quickly, and after a short adaptation period, the user can operate or move the equipment intuitively and rhythmically, thus achieving the effect of training balance.



21: 2023/02500. 22: 2023/02/24. 43: 2023/05/18
51: A01F; A23L
71: Henan University of Technology
72: LI Miao, QI Xianke, LI Caihong, WANG Xiangyang, LIU Ting, WANG Ruolan, QU Chenling, LIU Xinjie
54: METHOD FOR IMPROVING QUALITY OF AGED PEANUTS
00: -
The application discloses a method for improving the quality of aged peanuts, wherein the method comprises the following steps: 1. selecting newly harvested peanuts, hulling and simulating storage under preset conditions, so that peanut seeds deteriorate. 2. Put the aged peanut seeds in a cold

plasma treatment device, adjust the treatment parameters of the device, and finally obtain the treated peanut seeds under appropriate conditions. 3. Comparing the quality changes of peanut seeds before and after treatment to verify the influence of cold plasma treatment technology on improving the quality of aged peanut seeds. The invention can effectively delay the deterioration of peanut quality by treating peanut seeds with cold plasma under appropriate conditions. By comparing and analyzing the quality of peanut seeds before and after treatment, the effects of improving peanut quality changes include: the deterioration of lipid quality and protein functional characteristics of peanut seeds treated by cold plasma is obviously improved compared with that of untreated peanuts. The cold plasma treatment technology involved in the invention has the characteristics of environmental protection, simple operation, high efficiency and the like, and its characteristics determine that the cold plasma technology can obviously improve the quality of aged peanuts, and does not have negative effects on the environment and the peanut quality itself.

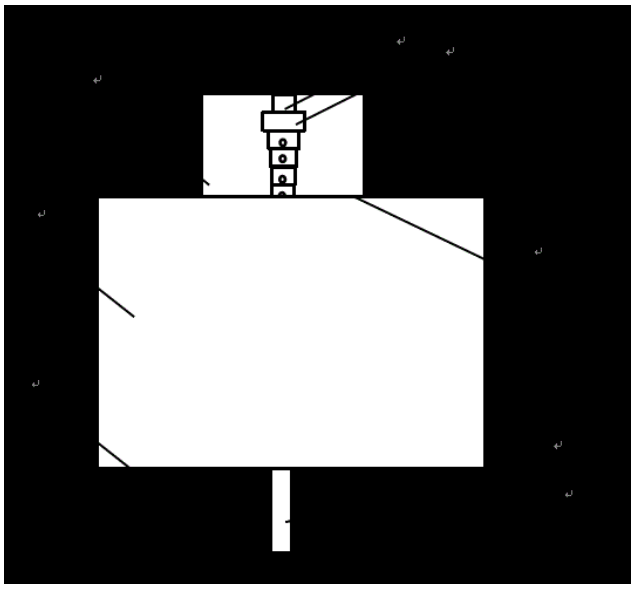


21: 2023/02501. 22: 2023/02/24. 43: 2023/05/18
51: G01N
71: Henan University of Technology
72: ZENG Fangfang, LI Bomiao, WANG Dianxuan, LI Hui, BAI Chunqi, LIU Xinjie, YAN Li, SONG Shiying

54: LOW-TEMPERATURE SAMPLING DEVICE SUITABLE FOR MICRO-TISSUE SAMPLES

00: -

The invention discloses a low-temperature sampling device suitable for micro-tissue samples, which comprises a telescopic cold storage medium storage box, a sampling station and an adjustable shelf. The telescopic cold storage medium storage box can be lifted manually, keeping a short distance of the cold storage medium at all times, ensuring the full contact between the cold storage medium and the sample or the sampling table, facilitating the operation of the sampler, and improving the experimental efficiency and quality. For the unfixed sampling device and sample storage device, a biological tissue sampling station is designed, which is composed of stainless steel, rubber and magnets. Stainless steel is the stage, and both sides are designed as rubber pads, which is convenient for experimental operators and prevents frostbite. The bottom is designed with a magnetic attraction device, which can make the sampling station more stable and facilitate the operation of biological tissue sampling. On the other side of the top of the device, there is a telescopic sample shelf, which is convenient for storing the biological tissue samples just obtained next to it at low temperature. The invention is suitable for biological tissue low-temperature sampling, and is integrated with biological tissue sample low-temperature preservation, replacing the traditional common biological tissue low-temperature sampling device and improving the experimental efficiency.



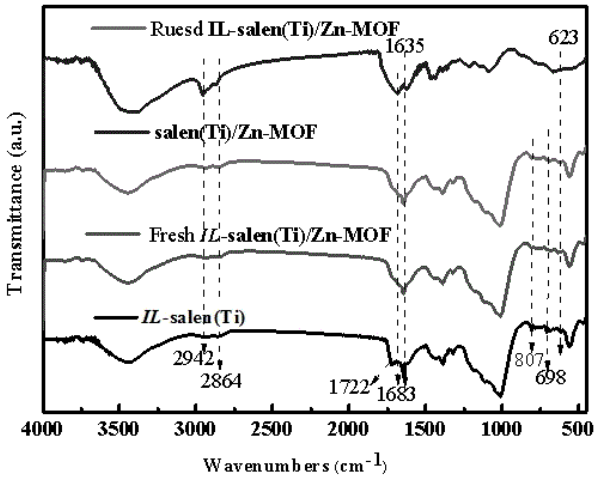
21: 2023/02502. 22: 2023/02/24. 43: 2023/05/17
51: B01D
71: Shanxi Institute of Science and Technology, Hunan Normal University
72: LI Shiye, LIU Zewei, WANG Jie, TANG Mingqiang, YANG Chao, LI Jiao

54: SYNTHESIS AND APPLICATION OF A FLEXIBLE ZINC-BASED METAL-ORGANIC FRAMEWORK MATERIAL

00: -

The invention relates to the technical field of preparation of zinc-based metal-organic framework

materials, in particular to a preparation method of ionic liquid modified flexible IL-salen (Ti)/Zn-MOF and nonionic liquid modified Salen (Ti)/Zn-MOF materials and their application in the asymmetric oxidation of thioether. Under the optimum conditions, the ionic liquid modified flexible IL-salen (Ti)/Zn-MOF catalyzed the conversion of phenylmethyl sulfide to R-type phenylmethyl sulfoxide with a selectivity of 92.3 percent and an ee value of 99.2 percent. However, the catalytic performance of Salen (Ti)/Zn-MOF modified by nonionic liquid is relatively low.

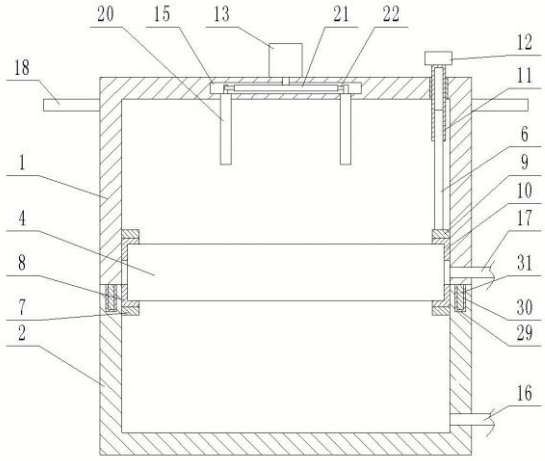


21: 2023/02503. 22: 2023/02/24. 43: 2023/05/17
51: G01N
71: Hunan City University
72: PENG Zhigao, WANG Xinzhong, DENG Zongwei, FENG Haoxiong, XIAO Ming, YANG Aocheng, FANG Weiqi

54: NOVEL TESTING DEVICE FOR CONCRETE MATERIAL PERMEABILITY

00: -

The invention discloses a novel testing device for concrete material permeability, which comprises an upper box body and a lower box body which are detachably connected; the inner edge of the top opening of the lower box body is fixedly connected with a hollow first sealing component, the inner cavity of the upper box body is slidably connected with a hollow second sealing component, and a concrete sample is detachably connected between the second sealing component and the first sealing component; the inn cavity of the upper box body is provided with a compression bar, the bottom end of the compression bar is fixedly connected with the top surface of the second sealing component, and the top end of the compression bar is in transmission connection with a driving component which is movably connected with the top wall of the upper box body; the top wall of the upper box body is fixedly connected with a plurality of vibrating frames, and the vibrating frames are movably connected with knocking components, and the knocking components are detachably connected with extrusion components, and the extrusion components are arranged on the top wall of the upper box body. The invention can improve the accuracy of permeability testing.



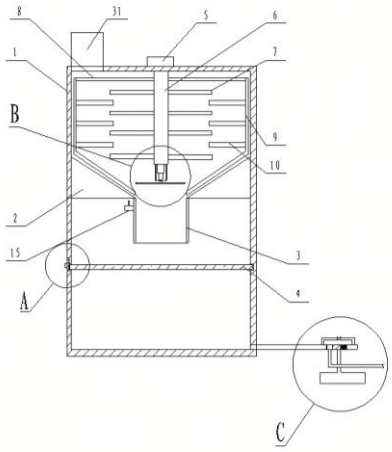
21: 2023/02504. 22: 2023/02/24. 43: 2023/05/17
51: C02F
71: Beihua University
72: XIE Yi

54: MUNICIPAL SEWAGE TREATMENT DEVICE

00: -

The invention discloses a municipal sewage treatment device, which comprises a treatment box, wherein the top end of the treatment box is provided with a stirring mechanism, which is in contact with the side wall of the treatment box; the bottom end of the stirring mechanism is provided with a scraper mechanism; the side wall of the treatment box is symmetrically and fixedly connected with an inclined plate; the stirring mechanism is in contact with the inclined plate; a sludge discharge pipe is fixedly connected below the inclined plate; a screen is detachably connected to the treatment box; the bottom end of the treatment box is communicated with an automatic drain mechanism, which is communicated with the outside. The invention improves the operation efficiency of the equipment,

has certain practicability, reduces the damage risk of the equipment and improves the sewage treatment effect.



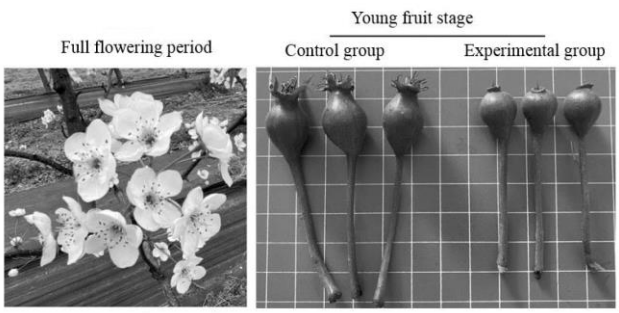
21: 2023/02505. 22: 2023/02/24. 43: 2023/05/17
51: A23L
71: Hainan Tropical Ocean University
72: HU Yaqin, HU Zhiheng, YANG Xin
54: PREPARATION METHOD OF SEAWATER SALTED SODA WATER
00: -

The invention provides a preparation method of ocean salt soda, which relates to the technical field of beverage processing. The preparation method of ocean salt soda takes deep ocean water as the main body, supplemented with deep sea salt, white sugar, citric acid, vitamin C and other auxiliary materials, and obtains a salt soda product with good taste by filling CO2 and mixing. The preparation process comprises the steps of deep water desalination, deep sea salt preparation, material mixing, homogenization, CO2 filling, filling, sterilization and the like. The purpose of the invention is to prepare a salty soda product with unique taste and full strength, and at the same time, the addition of ocean water and deep sea salt further enhances the nutritional value of the salty soda. The invention can effectively promote the processing and application of ocean water and enrich the types of salted soda beverages in the market. The seawater salted soda obtained by the preparation method has excellent quality and sensory evaluation, and can provide a salted soda product with good flavor and rich nutritional value for the market.



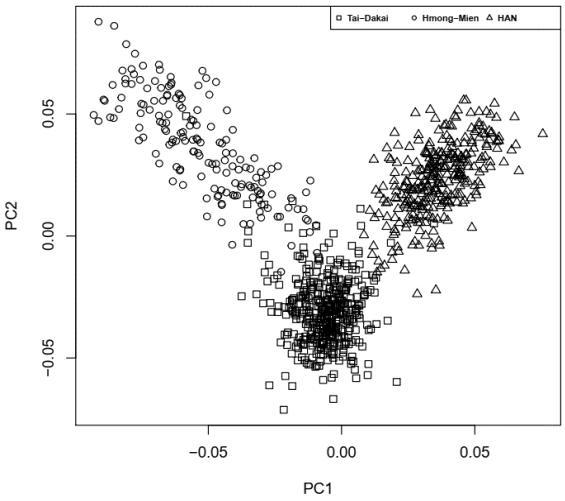
21: 2023/02506. 22: 2023/02/24. 43: 2023/05/17
51: A23L; A23N
71: Shandong Institute of Pomology
72: JIAO Huijun, WANG Hongwei, WEI Shuwei, RAN Kun, DONG Ran, DONG Xiaochang
54: METHOD FOR IMPROVING CALYX REMOVAL RATE AND FRUIT SHAPE OF LAIYANG PYRUS AND APPLICATION THEREOF
00: -

The invention belongs to the technical field of fruit tree production, and specifically relates to a method for improving calyx removal rate and fruit shape of Laiyang Pyrus. The decalcifying agent is a mixed solution of PBO and flusilazole, and its application method is spraying at the full flowering stage of Pyrus. This method can not only significantly improve the decalcifying rate of Laiyang Pyrus, but also significantly improve the size of Pyrus fruit type index, which is simple and easy to implement, reduces the labor production cost, and can be widely popularized and applied in Pyrus cultivation and production.



21: 2023/02507. 22: 2023/02/24. 43: 2023/05/17

51: G01N
71: GUIZHOU MEDICAL UNIVERSITY
72: YANG Meiqing, HUANG Jiang, REN Zheng, JIN Xiaoye, WANG Qiyan, ZHANG Hongling, LIU Yubo
54: METHOD FOR DETERMINING GENETIC ORIGIN OF ETHNIC GROUPS IN EAST ASIA
00: -
The present application discloses a method for determining the genetic origin of ethnic groups in East Asia, the steps include: collecting sample data of the target population; filtering the sample data to obtain the ancestral genetic information locus characteristics of the target population; and completing the determination of the genetic origin of the ethnic groups based on the genetic information locus characteristics. This application can provide new genetic markers and methods for ancestral origin inference in forensic medicine, provide guiding opinions on the origin of unknown individuals in actual cases, and provide new guiding clues to criminal investigators.



21: 2023/02522. 22: 2023/02/24. 43: 2023/05/30
51: C09D
71: QINGDAO AIR++ NEW MATERIALS CO., LTD.
72: WANG, Baozhu, LIU, Xiaowen, YUE, Changshan, ZHANG, Huwei, LI, Yonggang, WANG, Guigang
54: TWO-COMPONENT LOW-TEMPERATURE ICE-COVERING-PROOF AND EASY-TO-DEICE ALIPHATIC SPRAY POLYUREA
00: -
The present invention provides a two-component low-temperature ice-covering-proof and easy-to-deice aliphatic spray polyurea. In the present invention, fluorine and silicon groups are introduced into resin by chemical modification; the micro-/nanofiller can form a lotus-like "mastoid" structure in the polyurea coating; and the heat-absorbing pigment and filler actively melts ice to form a superhydrophobic surface, and also has a large contact angle and a small ice adhesion force to achieve ice-covering-proof and easy-to-deice performance on the basis of maintaining the original excellent performance of polyurea.

21: 2023/02524. 22: 2023/02/24. 43: 2023/05/30
51: C09K
71: QINGDAO AIR++ NEW MATERIALS CO., LTD.
72: WANG, Baozhu, SU, Kun, GUO, Lei, ZHAN, Lulu, ZHANG, Jingxue
54: FLAME-RETARDANT POLYUREA USED IN NEW ENERGY BATTERY BOXES
00: -
The present invention provides flame-retardant polyurea used in new energy battery boxes. The flame retardant is lanthanum hydroxide coated with phytic acid grafted carbon nanotubes, which has a core shell structure and comprises a lanthanum hydroxide core and phytic acid grafted carbon nanotubes coated outside the lanthanum hydroxide core. The nanotubes are obtained by grafting of phytic acid and aminated carbon nanotubes. The nanotubes uses lanthanum hydroxide as a core. The lanthanum hydroxide, as a flame retardant, is uniformly dispersed in the phytic acid grafted carbon nanotubes. The defect of uneven dispersion of a synergistic flame retardant is overcome; disadvantages such as high surface polarity, strong hydrophilicity, easy agglomeration and low flame-retardant efficiency of a lanthanum hydroxide flame retardant are improved; the flame retardancy of a polyurea composite material can be improved under the synergistic action of the phytic acid, the carbon nanotubes and the lanthanum hydroxide.

21: 2023/02525. 22: 2023/02/24. 43: 2023/05/30
51: G06F; H04N
71: HANGZHOU YONGKONG TECHNOLOGY CO., LTD
72: CAI, Linhong, YE, Weigan, ZHANG, Lei, CHENG, Qinghua, HUANG, Xiuxiu, SHI, Xiaobin
54: METHOD, DEVICE AND ELECTRONIC EQUIPMENT FOR DETECTING FAULT AND

PICKUP QUALITY OF SOUND PICKUP OF IP CAMERA

00: -

The present invention relates to a method for automatically detecting fault and pickup quality of a sound pickup of an IP camera. The detection method comprises an audio generator, a sound pickup, an IP camera, a switch and a Personal Computer (PC); the PC sends an instruction to a multi-audio generator through a network; the multi-audio generator generates sound waves in a specific frequency range; the sound pickup picks up and converts the sound waves into electrical signals to the IP camera; the PC acquires an audio-video stream of the IP camera, separates audio data, and analyzes audio signal strength and frequency range in the composite audio-video stream through spectral analysis; and whether the sound pickup has a fault or whether the pickup range is complete can be judged according to the audio signal strength and frequency range.

21: 2023/02594. 22: 2023/02/27. 43: 2023/05/29

51: E04B

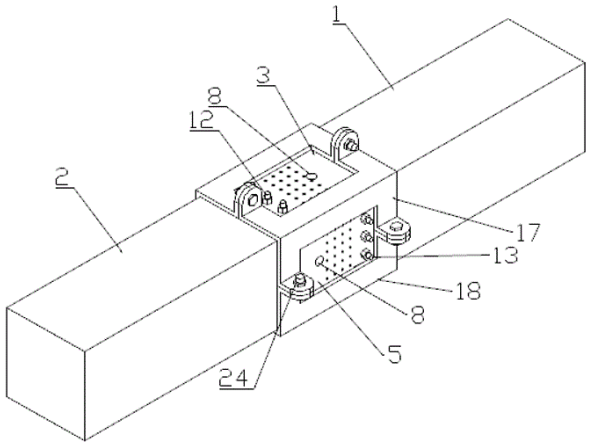
71: CHINA CONSTRUCTION SECOND ENGINEERING BUREAU LTD.

72: Yuanpeng ZHAO, Ming WU, Yaoxian XIANG, Xuejian LI, Yuli XIE, Yuanpin WU

54: CONNECTION STRUCTURE FOR PREFABRICATED COLUMN

00: -

The present disclosure provides a connection structure for a prefabricated column, including: a first connection end, and a second connection end docked with the first connection end. The first connection end includes: two first docking blocks symmetrically disposed on the first connection end, two first docking slots symmetrically disposed on sides of the first connection end, and a first reinforcement array disposed between the two first docking blocks; the second connection end includes: two second docking blocks symmetrically disposed on the first connection end and insertable into the two first docking slots, two second docking slots symmetrically disposed on sides of the second connection end for nesting the two first docking blocks, and a second reinforcement array disposed between the two second docking blocks. The present invention connects precast columns cast in sections by means of this connection structure.



21: 2023/02596. 22: 2023/02/27. 43: 2023/05/29

51: C09D

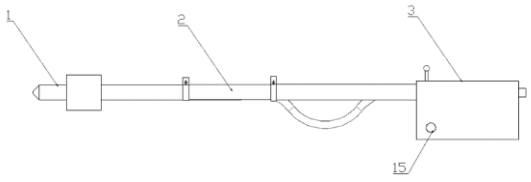
71: CHINA CONSTRUCTION SECOND ENGINEERING BUREAU LTD.

72: Anhua FAN, Bao WANG, Heng HUANG, Yu QIU, Kunyan LIU

54: FIREPROOF COATING SPRAYING DEVICE

00: -

The present disclosure relates to the technical field of fireproof material spraying, and in particular to a fireproof coating spraying device, including a spraying machine and a spraying gun connected to the spraying machine; wherein the spraying gun includes: a nozzle with a spraying angle adjustable, a telescopic tube with an end connected to the nozzle, a control grip connected to the other end of the telescopic tube, and a spraying tube disposed in the telescopic tube and connected to the nozzle and the control grip; a controller configured to control a rotation of the nozzle is arranged in the control grip.



21: 2023/02600. 22: 2023/02/27. 43: 2023/05/29

51: G06Q

71: COSCO SHIPPING TECHNOLOGY (BEIJING) CO., LTD.

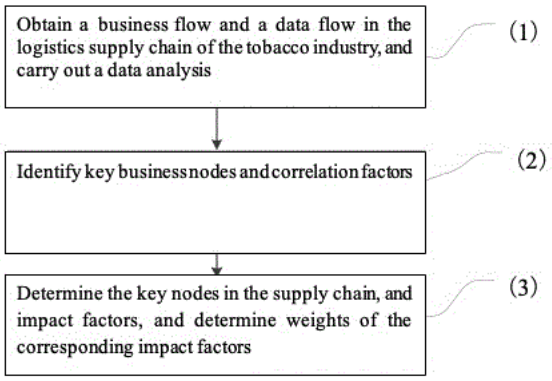
72: ZHANG, Yunhui, ZHANG, Kai, ZHANG, Hui, DAI, Yue, TIAN, Jiahao, LIU, Jiajin

33: CN 31: 202211196847.2 32: 2022-09-28

54: DETERMINATION METHOD OF KEY NODES IN LOGISTICS SUPPLY CHAIN OF TOBACCO INDUSTRY

00: -

The example of the present invention discloses a determination method of key nodes in a logistics supply chain of the tobacco industry, including: (1) obtaining a business flow and a data flow in the logistics supply chain of the tobacco industry, and carrying out a data analysis; (2) identifying key business nodes and correlation factors; and (3) determining the key nodes in the supply chain, and impact factors, and determining weights of the corresponding impact factors. According to the determination method of the key nodes in the logistics supply chain of the tobacco industry, which is disclosed by the example of the present invention, the key business nodes and the impact factors thereof are determined by sorting out and analyzing the business flow and the data flow in the logistics supply chain of the tobacco industry, weight coefficients of the impact factors are further determined, and a reasonable direction and method are determined for increasing the efficiency of the logistics supply chain of the tobacco industry, so that the determination method has a good application prospect in the logistics field of the tobacco industry.

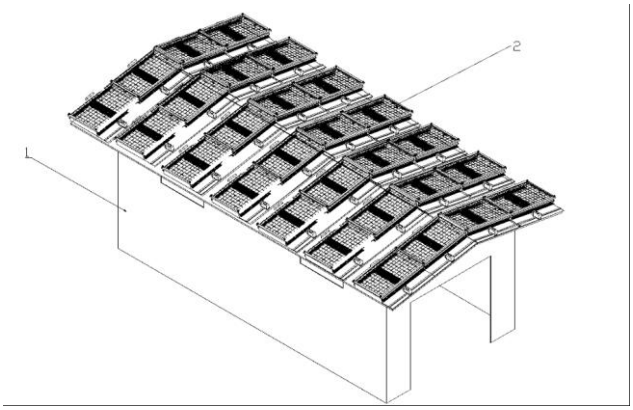


21: 2023/02601. 22: 2023/02/27. 43: 2023/05/29
51: H02S
71: CHINA CONSTRUCTION SECOND ENGINEERING BUREAU LTD.
72: Yuan LI, Dongdong BO, Tan LU, Xiang CHEN, Zhijiang YANG

54: LIGHTING PLANT WITH PHOTOVOLTAIC AUXILIARY POWER SUPPLY

00: -

The present disclosure relates to the technical field of photovoltaic lighting, and in particular to a light plant with photovoltaic auxiliary power supply, including a steel structure plant and a photovoltaic lighting system combined with the steel structure plant, the steel structure plant including a roof in a sloped structure; wherein the roof is arranged with a photovoltaic panel array of the photovoltaic lighting system, the photovoltaic panel array being arranged with an automatic cleaning device and a protection device. The present disclosure cleans the surface of the photovoltaic panel by the automatic cleaning device to keep the panel clean and thus maintain the power generation efficiency of the photovoltaic panel.



21: 2023/02621. 22: 2023/02/27. 43: 2023/05/29
51: A01G
71: HAIKOU EXPERIMENTAL STATION, CHINESE ACADEMY OF TROPICAL AGRICULTURAL SCIENCES
72: Yuhua GUO, Junmei YIN, Fei LIN, Yamei LI, Jinping LU, Yong KANG

54: TREATMENT METHOD FOR PROMOTING CORMLET GERMINATION AND SEEDLING GROWTH OF NYMPHAEA MICRANTHA

00: -

The present invention discloses a treatment method for promoting cormlet germination and seedling growth of nymphaea micrantha. In the treatment method, GA3 is used as a raw material. Nymphaea micrantha cormlets soaked with GA3 have a high germination rate, a large number of roots and a strong germination potential, and have floating leaves sprouted early in seedlings, such that the production efficiency of nymphaea micrantha is improved. The method comprises: first, selecting nymphaea micrantha cormlets of no rots and no

diseases or pests, and rinsing the nymphaea micrantha cormlets with water; then, preparing a GA3 solution and placing it in a vessel; placing the nymphaea micrantha cormlets in the vessel; covering with a lid to enable soaking for a period of time; and finally, taking out the nymphaea micrantha cormlets and rinsing them with water to obtain treated nymphaea micrantha cormlets. By the method according to the present invention, the treated nymphaea micrantha cormlets have a high germination rate, a large number of roots and a strong germination potential, and have floating leaves sprouted early in seedlings, such that the production efficiency of nymphaea micrantha is significantly improved.



21: 2023/02622. 22: 2023/02/27. 43: 2023/05/29
51: A01C
71: INTERNATIONAL AGRICULTURAL RESEARCH INSTITUTE, YUNNAN ACADEMY OF AGRICULTURAL SCIENCES
72: Yanyan WANG, Longwei LI, Bo LI, Li YAO, Feifei ZHANG, Baile WANG, Weizhong LI, Haidong CHEN, Chunmei TIAN, Lijuan ZHOU, Wanyou TENG, Sha ZHU, Fujun LAI, Huili FENG

54: METHOD FOR PLANTING KABOCHA SQUASH

00: -

The present disclosure discloses a method for planting Kabocha squash, belonging to the technical field of pumpkin planting. The method comprises the following steps: S1, selection of planting plots: soil with the pH of 5.5-6.8 is selected as the planting plots; S2, fine soil preparation: the soil is ploughed deeply and finely twice; S3, application of a base fertilizer: a compound fertilizer, an organic fertilizer and a pesticide are applied; S4, transplantation of pumpkin seedlings: cultivated pumpkin seedlings with two leaves and one core are transplanted, and watered to stabilize the roots; S5, management of fertility and water: a rooting fertilizer, a high nitrogen fertilizer, a high phosphorus fertilizer, a balanced fertilizer and a potash fertilizer are successively applied according to growth cycle; and S6, prevention and control of diseases and insect pests: chemicals for preventing diseases and insect pests are applied. The method of the present disclosure is rapid in pumpkin seedling growth, early in fructification, fewer in diseases, robust in plants, vigorous in growth, long in harvest period and high in yield, is environmental-friendly, and has the advantages of improving the yield and quality of the Kabocha squash.

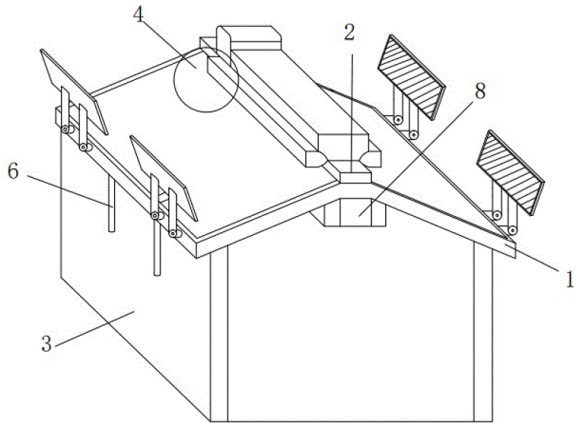
21: 2023/02623. 22: 2023/02/27. 43: 2023/05/29
51: E04B
71: ANHUI VOCATIONAL COLLEGE OF DEFENSE TECHNOLOGY
72: Kai WANG, Chengfang CHU

54: INTEGRATED ROOF FOR GREEN BUILDING

00: -

The present disclosure provides an integrated roof for a green building, including a herringbone cover plate, a roof top plate, a left vertical plate, a water storage assembly, light energy assemblies, downpipes, a planter, a controller, a right vertical plate and an insulation layer, where the roof top plate is installed at a top of the herringbone cover plate, the roof top plate is provided with the water storage assembly, surfaces of the left vertical plate and the right vertical plate are all assembled with the downpipes, the planter is arranged inside the herringbone cover plate, the controller is installed at a bottom of the herringbone cover plate, the light

energy assemblies are arranged at left and right sides of the herringbone cover plate, and the insulation layer is assembled inside the bottom of the herringbone cover plate. The present disclosure can not only use rainwater to irrigate green plants, but also discharge excess rainwater automatically, so as to prevent roof ponding, and at the same time, sun light can be gathered, thereby meeting lighting demands of plants.

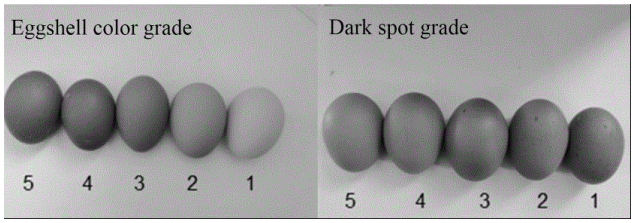


21: 2023/02624. 22: 2023/02/27. 43: 2023/05/29
51: A01K
71: SHANDONG AGRICULTURAL UNIVERSITY
72: Xiaojuan WANG, Tong TIAN, Hai LIN, Hongchao JIAO, Jingpeng ZHAO

54: ILLUMINATING METHOD FOR IMPROVING EGGSHELL QUALITY OF LAYING HENS IN LATE LAYING PERIOD

00: -

The present disclosure relates to the technical field of livestock and poultry breeding, in particular to an illuminating method for improving eggshell quality of laying hens in a late laying period. The illuminating method for improving the eggshell quality of the laying hens in the late laying period includes a step of giving 10L/14D illuminating period treatment during the feeding process. The illuminating method for improving the eggshell quality of the laying hens in the late laying stage reduces the feeding cost, maintains the production performance of the laying hens in the late laying stage, improves the eggshell quality, reduces the egg broken rate, reduces the drug intervention to a certain extent, improves the economic and ecological benefits of the laying hens for production, and realizes the healthy breeding of the laying hens.

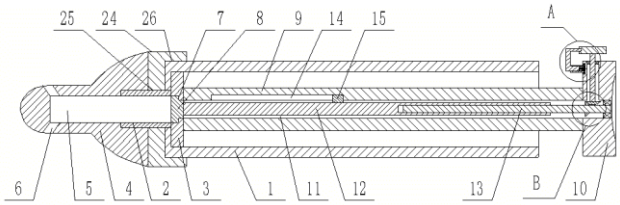


21: 2023/02652. 22: 2023/02/27. 43: 2023/05/25
51: A61J
71: The first affiliated hospital of bengbu medical college
72: LIU Peipei, YANG Mei, DONG Huaifu, TAI Xiaoyan

54: MEDICINE FEEDER FOR PEDIATRIC NURSING

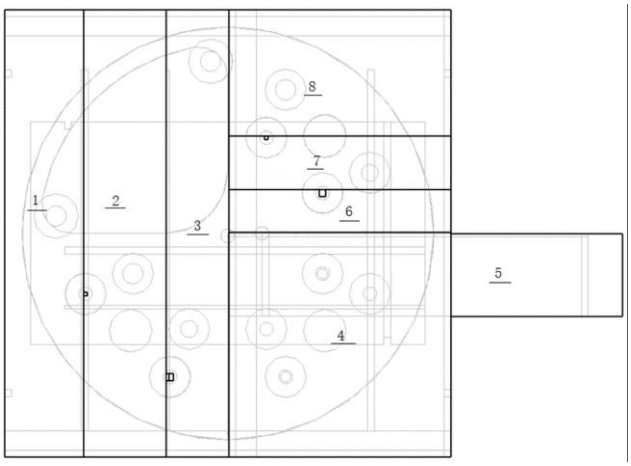
00: -

The invention discloses a medicine feeder for pediatric nurse, which comprises a medicine storage tube, wherein one end of that medicine storage tube is fixedly connected with and communicated with a medicine delivery tube; a first piston is slidably connected in the medicine storage tube; a push-pull rod assembly is installed at one end of the first piston far away from the medicine delivery tube; and one end of the push-pull rod assembly far away from the piston extends out of the medicine storage tube and is provided with a rotating rod assembly; one end of the medicine storage tube close to the medicine delivery tube is detachably connected with a medicine delivery head, a medicine delivery channel communicated with the inner cavity of the medicine delivery tube is arranged in the medicine delivery head, and a plurality of medicine outlet holes communicated with the medicine delivery channel are arranged on the medicine delivery head; the first piston is provided with a through groove, and a second piston is slidably connected in the through groove; the inner cavity of the medicine feeding tube and the medicine feeding channel are both slidably connected with the outer wall of the second piston, and the second piston is in transmission connection with the rotating rod assembly. The invention can reduce the residual liquid medicine in the medicine feeding tube and the medicine feeding channel, and improve the accuracy and effect of medicine feeding.



21: 2023/02656. 22: 2023/02/27. 43: 2023/05/29
51: G01N
71: GU'AN CHAOYANG BIO-TECHNOLOGY CO., LTD
72: CHEN, Yingmao, GENG, Jianhua, SUN, Fang, SUN, Chaoyang
54: A PRODUCTION PROCESS FOR A MAMMARY GLAND PET PHANTOM
00: -

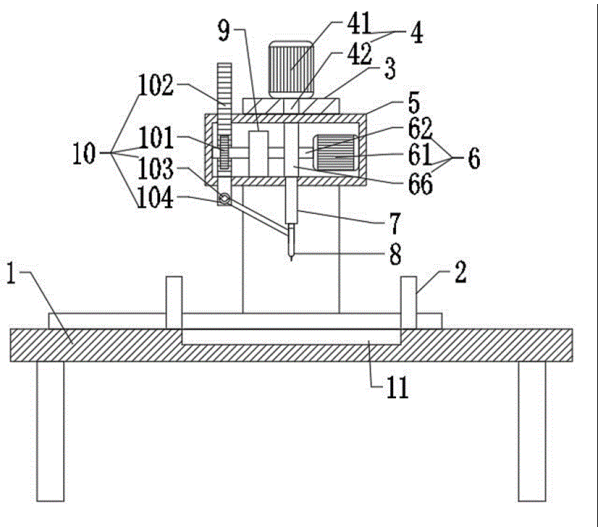
The present invention discloses a production process for mammary gland PET phantom, and relates to the technical field of quality control phantom. It comprises the following steps: Preforming a plurality of rectangular cuboid-shaped organic boards and pre-processing corresponding grooves and line sources on the plurality of rectangular cuboid-shaped organic boards; Inlaying steel bar dies of various diameters into the organic boards; Adhesively bonding the plurality of rectangular cuboid-shaped organic boards into a cube structure module according to the corresponding positions; Processing the cube structure module into a rectangular cuboid structure module after bonding, and processing a fan-shaped countersunk cavity at the top end of the rectangular cuboid structure module; Arranging a top cover at the top of the fan-shaped countersunk cavity, and processing a top cover sink hole and a line source water injection hole in the top cover; Processing the rectangular cuboid structure module into a cylinder structured module along the axis of the long side direction center; Processing a phantom top cover, and connecting it with the top of the cylinder structured module. The processed deep hole can meet the requirements of right circular glossiness and verticality by adhesively bonding the plurality of rectangular cuboid-shaped organic boards into a cube structure, at the same time, the requirements of shape and precision can also be met.



21: 2023/02657. 22: 2023/02/27. 43: 2023/05/29
51: F16L
71: SHANGHAI MARITIME UNIVERSITY
72: LIN, Jiajie, ZANG, Zhaoliang
54: MULTI-ANGLE CUTTING DEVICE FOR PLASTIC PIPE USED IN MECHANICAL ENGINEERING
00: -

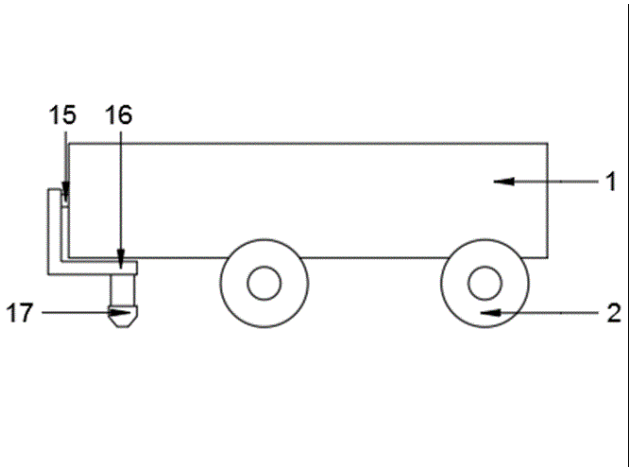
The present invention relates to a technical field of plastic pipe cutting, and provides a multi-angle cutting device for plastic pipe used in mechanical engineering, comprising: a machining table, the machining table is fixedly connected with a support frame, a adjusting assembly is provided on the support frame, the adjusting assembly is fixedly connected with a mounting frame, a reciprocating assembly is provided in the mounting frame, the reciprocating assembly is fixedly connected to a telescopic rod, the telescopic rod is fixedly connected with a saw blade; a lifting assembly is fixedly connected to the saw blade, the lifting assembly is movably connected with an output shaft of a reducer, the reducer is fixedly connected to the mounting frame, an input shaft of the reducer is fixedly connected to the reciprocating assembly; the adjusting assembly drives the mounting frame to rotate through rotation, the mounting frame drives the telescopic rod and the saw blade on it to rotate to a preset cutting angle through the reciprocating assembly, the reciprocating assembly drives the saw blade to move in a reciprocating straight line through the telescopic rod and simultaneously drives the lifting assembly through the reducer, the lifting assembly drives the saw blade to pull the telescopic rod to descend in a straight line, and then the plastic

pipe is cut, which has the advantages of multi-angle cutting and high cutting efficiency.



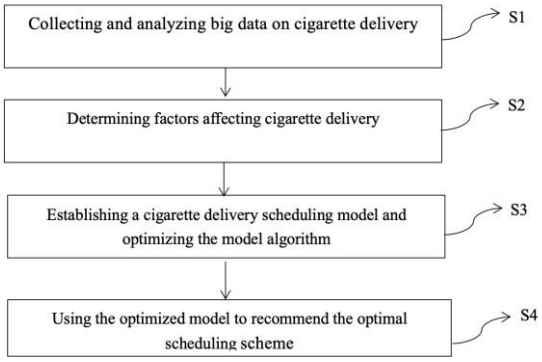
21: 2023/02659. 22: 2023/02/27. 43: 2023/05/29
51: B08B
71: SHANHAI MARITIME UNIVERSITY
72: ZHAO, Jianhui, ZANG, Zhaoliang
54: MECHANICAL ENGINEERING EQUIPMENT WITH RUST REMOVAL FUNCTION
00: -

The present invention relates to the technical field of mechanical engineering, in particular to a mechanical engineering equipment with rust removal function, the mechanical engineering equipment with rust removal function comprises: a wall-climbing car, a spray structure is rotationally connected to a middle part of the wall-climbing car; an adjusting assembly, the adjusting assembly is rotationally connected to an inner part of the wall-climbing car and is transmissively connected to the spray structure; compared with the prior art, the equipment can adjust a spray head to a best position according to characteristics of mechanical surface by changing a relative position between the spray head and the mechanical surface, thus improving overall rust removal efficiency of the equipment, and can avoid manual scaffolding for mechanical cleaning by the wall-climbing car, improving mechanization of rust removal and simultaneously reducing working intensity of workers.



21: 2023/02661. 22: 2023/02/27. 43: 2023/05/29
51: G06K
71: COSCO SHIPPING TECHNOLOGY (BEIJING) CO., LTD.
72: DONG, Peng, DONG, Mei, ZHANG, Kai, WANG, Yixin, HUO, Chao, SONG, Xunguan, SONG, Xiaobei
33: CN 31: 202211197355.5 32: 2022-09-29
54: CIGARETTE DELIVERY SCHEDULING METHOD BASED ON LOGISTICS BIG DATA
00: -

The cigarette delivery scheduling method based on logistics big data, including: (1) Collecting and analyzing big data on cigarette delivery; (2) Determine the factors that affect cigarette delivery; (3) Establish a cigarette delivery scheduling model and optimize the model algorithm; (4) Using the optimized model to recommend the optimal scheduling scheme. The cigarette delivery scheduling method based on logistics big data, through the collection and analysis of logistics big data, and further through model identification and model verification, an effective cigarette delivery scheduling model is obtained, which can improve the scheduling accuracy of cigarette delivery, reduce the recall rate, and effectively reduce the overall delivery scheduling time , on the basis of the existing information system, the scheduling efficiency is greatly improved, and it has a good application prospect in the cigarette logistics industry.

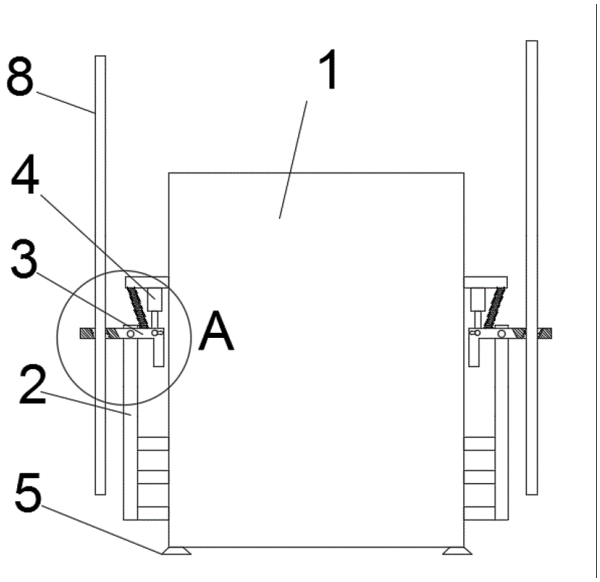


21: 2023/02663. 22: 2023/02/27. 43: 2023/05/29
51: F03D
71: HUANENG RENEWABLES CORPORATION LIMITED HEBEI BRANCH
72: WANG, Xiangwei, ZHENG, Junbin, DING, Chunxing, WU, Tao, TONG, Jihong, LI, Guipeng, ZHANG, Chenghui, LIU, Yi, WU, Huanyu, LI, Yudong, TAN, Wei, LIU, Jia

54: AN ANTI-FALLING DEVICE OF CAR TYPE LIFTING EQUIPMENT FOR WIND TURBINE GENERATOR

00: -

The present invention belongs to the technical field of safety protection equipment, in particular relates to an anti-falling device of car type lifting equipment for wind turbine generator, which comprises a support frame; the said support frame is fixedly installed on the side wall of the car; the support frame is rotatably connected with a locking handle; the top of one end of the locking handle close to the car side wall is provided with an automatic telescopic rod; the fixing end of the automatic telescopic rod is fixedly connected with the car side wall; the free end of the automatic telescopic rod is movably connected with one end of the locking handle close to the car side wall; one end of the locking handle away from the car side wall is provided with a locking hole for a guide rope to penetrate, the side wall of the locking hole is provided with locking steel teeth for locking the guide rope and a laser velocimeter is installed at the bottom end of the car. The present invention can achieve the technical effects of locking the car and the guide rope in the process of car falling, and avoiding further falling of the car.



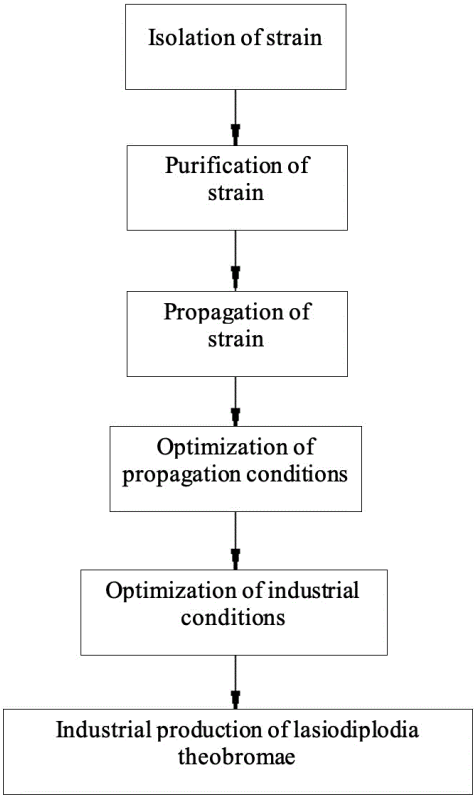
21: 2023/02664. 22: 2023/02/27. 43: 2023/05/29
51: A01N
71: WANG, Taihu, GUO, Yongfeng
72: WANG, Taihu, GUO, Yongfeng

54: A PRODUCTION PROCESS FOR ISOLATING AND OBTAINING LASIODIPLODIA THEOBROMAE CAPABLE OF EFFICIENTLY PRODUCING JASMONIC ACID FROM TROPICAL FRUITS

00: -

The present invention discloses a production process for isolating and obtaining lasiodiplodia theobromae capable of efficiently producing jasmonic acid from tropical fruits, which comprises the following steps: S1. Washing and wiping different varieties of tropical fruits, storing at room temperature, observing the decay process of the tropical fruits, picking out the fruits when they are decayed by 60%-70%, and marking the fruits as fruits A; S2. Adding the fruits A with the same mass into 100mL of sterile normal saline, and performing rotary oscillation for 30-35min at 26-30°C to obtain a diluted bacterial solution a; S3. Diluting 2mL of the diluted bacterial solution a to 20mL, mixing and shaking up, coating a PDA plate with a certain amount of the diluted bacterial solution a, and culturing for 2-3 days at 26-30°C. The present invention provides a production process for lasiodiplodia theobromae, which is high in yield of biosynthetic jasmonic acid, low in cost, healthy and environment-friendly, and is very suitable for large-scale agricultural production practice; and in the biosynthesis of the jasmonic acid, a culture solution

with relatively high jasmonic acid concentration can be obtained, the highest concentration can reach 1080mg·L-1, the culture period is short, and the culture process is simple and convenient.

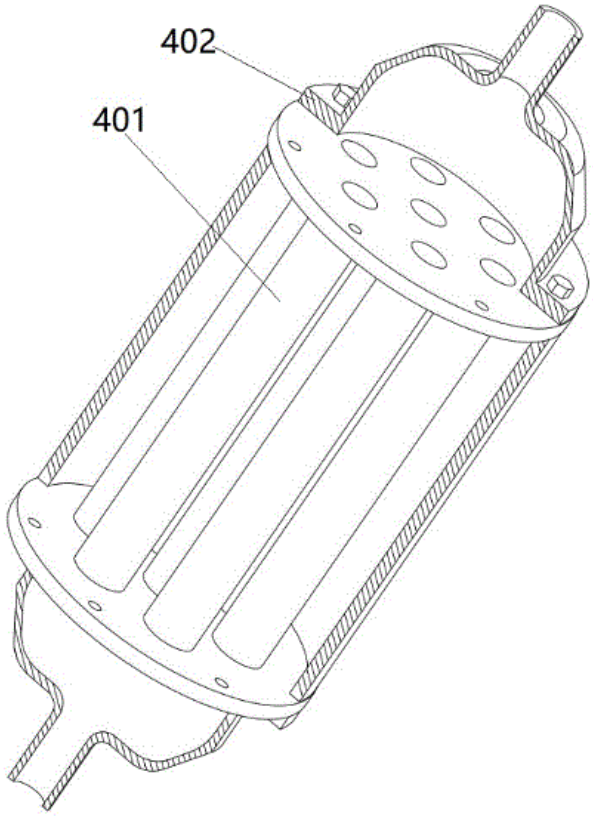


21: 2023/02665. 22: 2023/02/27. 43: 2023/05/29
51: A23F
71: LI, Fengxiang
72: LI, Fengxiang
54: A KANGLE TEA AND PREPARATION METHOD THEREOF
00: -

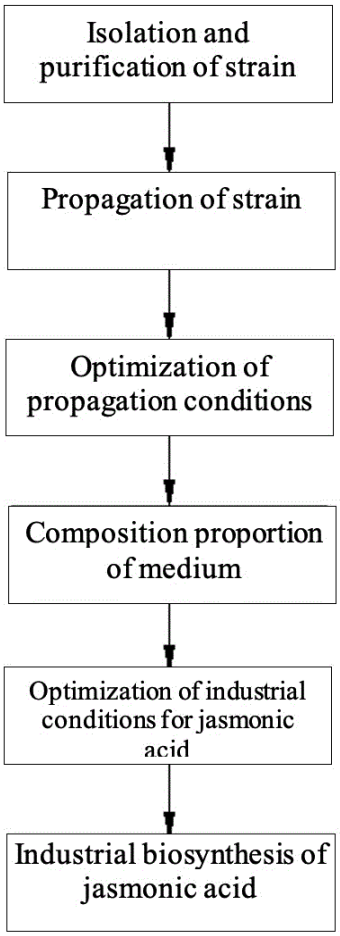
The present invention belongs to the technical field of traditional Chinese medicine, and provides a Kangle tea and preparation method thereof; the Kangle tea comprises the following components in parts by weight: 36-45 parts of rhizoma atractylodis, 370-500 parts of caulis bambusae in taeniam, 200-350 parts of mint, 300-450 parts of amomum tsao-ko, 250-400 parts of areca catechu, 350-450 parts of papaya, 200-300 parts of raw radix glycyrrhizae, 250-360 parts of radix aucklandiae, 300-450 parts of fructus amomi, 1.5-3 parts of ginger powder and 17,500-27,500 parts of Anhua tea. The present invention adopts pure natural medicinal materials as its raw materials that are easy to get and won't produce side effects after use. It can be prepared into tea bags or tea pills and have certain auxiliary and rehabilitation effects for rheumatism in summer and winter and treating plague at abnormal weather four seasons.

21: 2023/02666. 22: 2023/02/27. 43: 2023/05/29
51: F02D
71: WEI-LING KUO
72: WEI-LING KUO
54: FUEL-EFFICIENT AND FUEL-SAVING DEVICE
00: -

A fuel-efficient and fuel-saving device is provided and includes a first fuel-modification device, an air-refining device, and a tubing-type fuel-modification device. The first fuel-modification device is arranged in a fuel tank. The air-refining device is arranged under a filter screen of an air filter of an internal combustion engine, and the tubing-type fuel-modification device is arranged above a pipeline between the internal combustion engine and the fuel tank. The first fuel-modification device includes a first metal box body and a plurality of nano far-infrared ceramic particles. The surface of the first metal box body has a plurality of uniformly arranged air holes. The plurality of nano far-infrared ceramic particles is arranged in the first metal box body. The ball diameter of the nano far-infrared ceramic particles is larger than the diameter of the air holes.

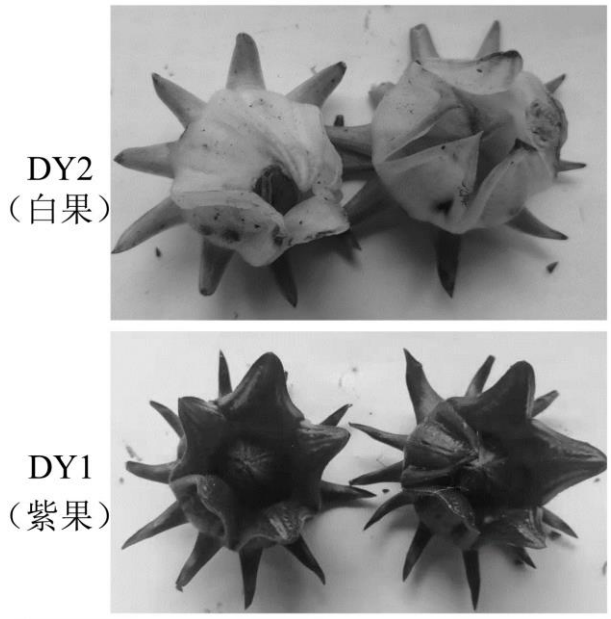


21: 2023/02667. 22: 2023/02/27. 43: 2023/05/29
51: A01N
71: WANG, Taihu, GUO, Yongfeng
72: WANG, Taihu, GUO, Yongfeng
54: AN EFFICIENT AND RAPID PRODUCTION PROCESS FOR BIOSYNTHESIS OF JASMONIC ACID
00: -
The present invention discloses an efficient and rapid production process for biosynthesis of jasmonic acid, which comprises the following steps: Step 1: Isolating a single strain of lasiodiplodia theobromae from tropical fruits; Step 2: Inoculating the strain into a medium, carrying out static culture at 28-30°C for 6 days, taking 20 mL of the culture solution obtained after culture for 6 days, carrying out extraction with ethyl acetate, blow-drying with nitrogen, fixing the volume, and respectively detecting the jasmonic acid standard substance and sample by liquid chromatography. According to the present invention, the lasiodiplodia theobromae is applied to biosynthesis of jasmonic acid; a culture solution with high jasmonic acid concentration can be obtained; furthermore, the culture period is short; the production cost is greatly reduced; tissues or organs of plants have special physiological functions; the purposes of increasing the yield or preventing and treating diseases and insect pests are achieved; and the present invention is widely applied to agriculture, industry and medicine industries.

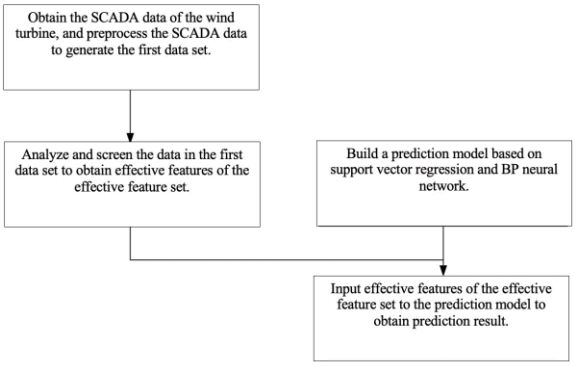


21: 2023/02669. 22: 2023/02/27. 43: 2023/05/29
51: C12Q
71: WANG, Taihu, GUO, Yongfeng
72: WANG, Taihu, GUO, Yongfeng
54: AN SNP MOLECULAR MARKER LINKED TO HIBISCUS SABDARIFFA LINN. PURPLE FRUIT TRAITS AND APPLICATION THEREOF
00: -
The present invention relates to an SNP molecular marker and application thereof. The molecular marker is located on a Hibiscus sabdariffa Linn. anthocyanin synthetase gene ANS, the base of purple Hibiscus sabdariffa Linn. with high

anthocyanin content is A, and the mutant base of white Hibiscus sabdariffa Linn. with low anthocyanin content is G. The molecular marker DYSNP1 in the present invention is closely linked with the traits of the Hibiscus sabdariffa Linn. purple fruit, the anthocyanin content of a Hibiscus sabdariffa Linn. sample can be reflected by detecting genetic information of the Hibiscus sabdariffa Linn. sample at the DYSNP1, and the molecular marker is of great significance to genetic breeding and identification of germplasm resources.

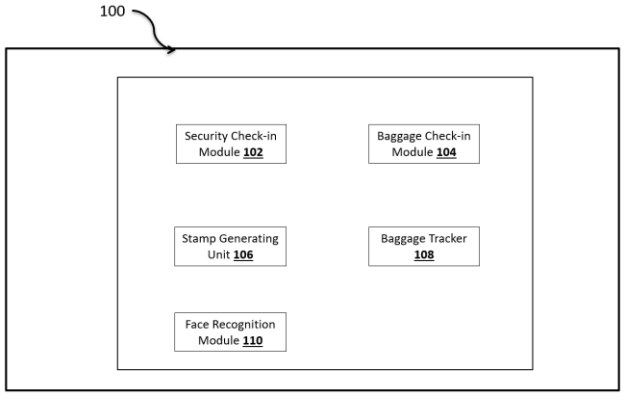


21: 2023/02671. 22: 2023/02/27. 43: 2023/05/29
51: E21F
71: HUANENG RENEWABLES CORPORATION LIMITED HEBEI BRANCH
72: QIAO, Qiang, ZHAO, Haiyu, LIU, Yi, ZUO, Xianfeng, GENG, Yehua, CHENG, Zeyi
54: A DATA-DRIVEN ICE COVER PREDICTION METHOD AND DEVICE
00: -
The present invention discloses a data-driven ice cover prediction method and device for wind turbine blades in the field of wind power generation. The specific steps are as follows: data preprocessing: obtain the SCADA data of the wind turbine, and preprocess the SCADA data to generate the first data set; feature extraction: analyze and screen the data in the first data set to obtain effective features; prediction model building: build a prediction model based on support vector regression and BP neural network; result prediction: input the effective features to the prediction model to obtain prediction result. The present invention greatly shortens the prediction time of the prediction model and improves the accuracy of the prediction result through preprocessing and dimension reduction of a wind turbine's SCADA data.

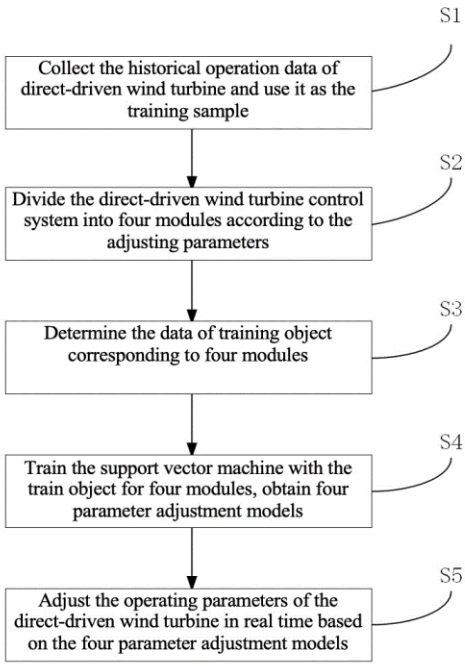


21: 2023/02672. 22: 2023/02/27. 43: 2023/05/29
51: A23F
71: WANG, Taihu, GUO, Yongfeng
72: WANG, Taihu, GUO, Yongfeng
54: A FORMULA FOR REDUCING THE BITTER TASTE OF AZADIRACHTA INDICA LEAF TEA AND PREPARATION METHOD THEREOF
00: -
The present invention discloses a formula for reducing bitter taste of Azadirachta Indica leaf tea, which is determined by selecting Azadirachta Indica leaves processing process, a sweetener, herbal tea, tea, freeze-dried fruits and tea bags; and the formula comprises: 0.6g of Azadirachta Indica leaves that are blanched for 4min and dried, 0.8g of Fuding old white tea, 0.8g of cyclocarya paliurus, 0.4g of dandelion roots and 0.4g of rock candy. The tea bag can be a filter paper threaded tea bag or a corn fiber threaded tea bag. The finally selected Azadirachta Indica leaves blanching process, blending formula (especially white tea and cyclocarya paliurus) and two tea bags enable the original bitter taste of the Azadirachta Indica leaves to be greatly improved. And the Azadirachta Indica leaves only have slight bitter taste, which can be accepted by the public. The healthcare effects of resisting oxidation, reducing inflammation and the like of the tea are reserved, and a certain development prospect is achieved.

21: 2023/02673. 22: 2023/02/27. 43: 2023/06/06
51: A43B
71: Dr. Patil Preeti Suryakant, Mr. Patil Om Suryakant, Mr. Shaikh Aryan Alam, Ms. Shaikh Ahana Alam
72: Dr. Patil Preeti Suryakant, Mr. Patil Om Suryakant, Mr. Shaikh Aryan Alam, Ms. Shaikh Ahana Alam
54: MACHINE LEARNING BASED AUTOMATION AND SECURITY SYSTEM AIRPORTS
00: -
The present invention relates to machine learning in airport security and automation systems has revolutionized the way airports operate, offering increased efficiency and accuracy in security checks and passenger processing. Facial recognition technology, automated baggage screening, and anomaly detection are just a few of the applications of machine learning in airport security. Machine learning has also enabled automated processes, such as passport scanning, reducing the need for manual checks and improving the overall passenger experience. With its ability to quickly analyze large datasets and identify potential security risks, machine learning has become an indispensable tool in airport security and operations.

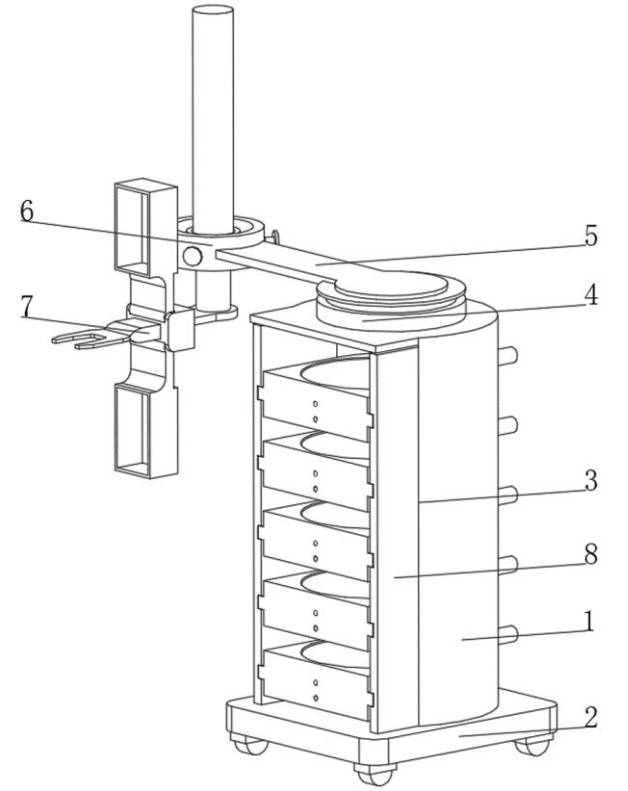


21: 2023/02674. 22: 2023/02/27. 43: 2023/05/29
51: F03D
71: HUANENG RENEWABLES CORPORATION LIMITED HEBEI BRANCH
72: ZHENG, Junbin, CHU, Xiaoguo, WANG, Sen, ZHAO, Haiyu, QIAO, Qiang, YU, Yang
54: A DIRECT-DRIVEN WIND TURBINE CONTROL METHOD AND SYSTEM BASED ON MODULAR DATA DRIVE
00: -
The present invention embodies a direct-driven wind turbine control method and system based on modular data drive. It is applicable to the wind power generation technical field and the method comprises the following steps: S1, collect the historical operation data of direct-driven wind turbine and use it as the training sample; S2, divide the direct-driven wind turbine control system into four modules according to the adjusting parameters; S3, determine the data of training object corresponding to four modules; S4, train the support vector machine with the train object for four modules and obtain four parameter adjustment models; S5, adjust the operating parameters of the direct-driven wind turbine in real time based on the four parameter adjustment models. The present invention divides the direct-driven wind turbine control system into four modules according to the adjusting parameters and each module is used to independently adjust one parameter of the direct-driven wind turbine, avoiding the interference caused by the adjustment of different parameters to other parameters and ensuring the operation of the direct-driven wind turbine under the optimal status.



21: 2023/02675. 22: 2023/02/27. 43: 2023/05/29
51: B65G
71: YANGZHOU YIXIN MICROELECTRONICS CO., LTD.
72: SHEN, Jiaqi
54: TRANSFER DEVICE FOR WAFER TESTING

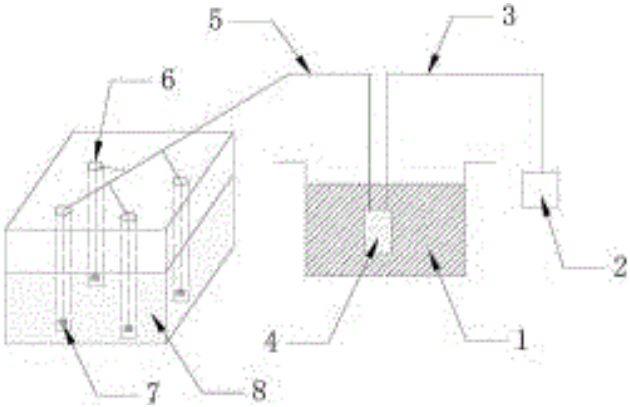
00: -
The present invention discloses a transfer device for wafer testing, specifically including: a storage box, where the storage box has a cavity structure and a transport cart arranged at a bottom of the storage box, a top of the transport cart is fixedly connected to the bottom of the storage box, a placement port is arranged on one side of the storage box, and a placement device is arranged inside the storage box; and a rotating table, where the rotating table has an electronic control structure and a rotating bracket arranged on the rotating table, one end of the rotating bracket is fixedly connected to a rotating portion of the rotating table, an adjusting device is fixedly connected to one end of the rotating bracket that is away from the rotating table, and a clamping mechanism is fixedly connected to one end of the adjusting device. The placement device includes a placement sleeve having a barrel-shaped structure. The present invention relates to the technical field of wafer transfer. The transfer device for wafer testing facilitates separate storage of wafers and wafer protection, and avoids extrusion damage of the wafers due to accumulation during transfer.



21: 2023/02702. 22: 2023/02/27. 43: 2023/05/25
51: C02F; E03B
71: XUZHOU COLLEGE OF INDUSTRIAL TECHNOLOGY
72: ZHANG Ling, SU Xiaoli

54: RECHARGING DEVICE FOR RECHARGING GROUNDWATER WITH RECLAIMED WATER

00: -
The invention relates to a recharging device for recharging groundwater with reclaimed water, which comprises a recharging source, a power supply device, a power line, a water pump, a water delivery pipeline, a recharging well and a shunt controller, wherein the water pump is arranged in the recharging source, the power supply device is connected with the water pump through the power line, the water pump is connected with a plurality of recharging wells through the water delivery pipeline, a branch pipe of the water delivery pipeline is probed into the recharging well, and the shunt controller is installed at the end of the water delivery pipeline. According to the change of the water level of the recharging well, the shunt controller automatically opens or closes the annular valve body by using the buoyancy of the float and the force difference of the heavy weight to adjust the reinjection amount, so as to adaptively adjust the reinjection capacity of different water pipelines, and at the same time prevent recharge water from overflowing the well and damaging the structure of the recharging well. The device has the advantages of simple principle, automatic adjustment, energy saving, etc. It is suitable for recharging groundwater with reclaimed water and has a good application prospect.



21: 2023/02711. 22: 2023/02/27. 43: 2023/05/25
51: C10L
71: Inner Mongolia University of Technology

72: ZHANG Hongbo, ZHANG Jingkun, YANG Min, LI Guoping

54: MILD AND EFFICIENT COAL DESULFURIZATION METHOD

00: -

The invention discloses a mild and efficient coal desulfurization method, which comprises the following steps: (A) adopting NaI (sodium iodide) and KI (potassium iodide) as supporting electrolytes, wherein the solvent of the supporting electrolyte is a mixed liquid of deionized water and anhydrous ethanol, adding the supporting electrolyte into an anode chamber of an electrolytic cell, and simultaneously adding the supporting electrolyte with the same volume and composition into a cathode chamber to connect a gas collection system, connecting an gas gathering system; (B) adding a coal sample with a particle size of less than 200 meshes into an anode chamber of an electrolytic cell, and uniformly mixing by ultrasonic, wherein the concentration of coal slurry after coal addition is controlled at 0.05 g/ml; (C) connecting the circulating water in the water bath, and electrifying for electrolysis; (D) after electrifying for 4 hours, filtering the electrolyte, further desulfurizing the coal sample, washing, drying and weighing, and analyzing sulfur, calorific value ash content and infrared spectrum; the further desulfurization treatment is specifically to immerse the coal sample in the mixed liquid with the volume ratio of methyl diethanolamine to water of 1: 10 for 10 min. This technology is used for coal desulfurization.

21: 2023/02795. 22: 2023/02/27. 43: 2023/05/08

51: B21D

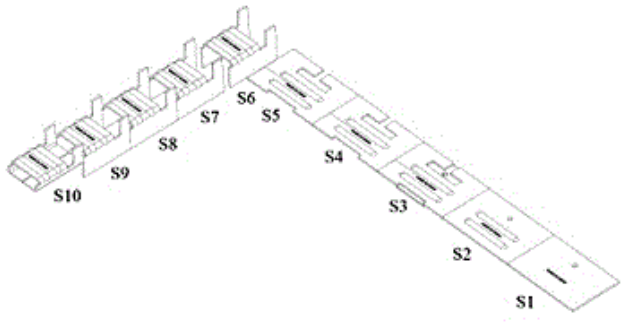
71: XUANCHENG VOCATIONAL & TECHNICAL COLLEGE

72: WANG, LI, LIU, JI, CHENG, ZHANG, TAO, LEI, HU, LIYONG, REN, LONGJUN

54: SYSTEM AND METHOD FOR MANUFACTURING SCRAP-FREE SPRING CLAMP, AND BENDING AND SNAP-FITTING MECHANISM

00: -

The present invention discloses a system and method for manufacturing a scrap-free spring clamp, and a bending and snap-fitting mechanism. The method for manufacturing the scrap-free spring clamp includes the following processes: S1, character stamping; S2, forming; S3, blanking; S4, first idle process; S5, second idle process; S6, blanking and bending; S7, third idle process; S8, fourth idle process; S9, fifth idle process; and S10, bending and snap-fitting. The method for manufacturing the scrap-free spring clamp of the present invention innovatively achieves, by combining a scrap-free layout with an in-die bending and snap-fitting mechanism, the advantages of high material utilization rate, less die stations, high precision of product contours and surfaces, and obtains good economic efficiency, product quality and production efficiency. The method can shorten a development cycle of components with bending and snap-fitting features and has wide application prospects.



21: 2023/02796. 22: 2023/02/27. 43: 2023/05/08

51: B21D

71: XUANCHENG VOCATIONAL & TECHNICAL COLLEGE

72: WANG, LI, DAI, YA, ZHOU, YING, HU, HUI, HU, TANGFEI, HU, LIYONG

54: MULTI-STEP STAMP-FORMING METHOD FOR COMPLEX VEHICLE BODY CROSS MEMBER

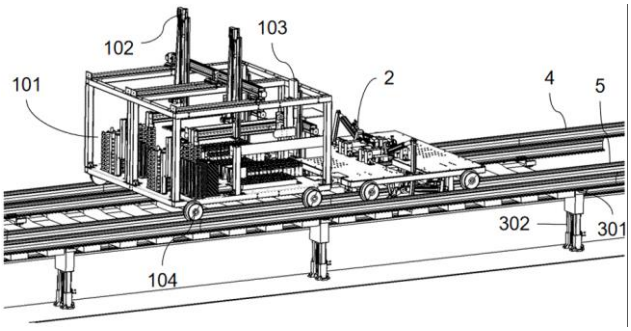
00: -

The present invention discloses a multi-step stamp-forming method for a complex vehicle body cross member, including the steps: S1, blanking; S2, drawing and punching; S3, trimming and punching; S4, first flanging; S5, wedge punching and wedge trimming; S6, second flanging; S7, forming and flanging; S8, wedge flanging; S9, third flanging; S10, fourth flanging; S11, wedge flanging; and S12, punching and reshaping. The multi-step stamp-forming method for a complex vehicle body cross member of the present invention performs stamp-machining by using a multi-station transfer die and a manipulator and easily implements high-speed

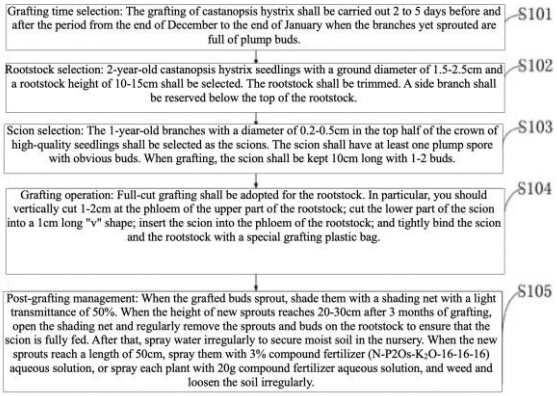
automatic stamping production, and stamped components have stable quality and high production efficiency.



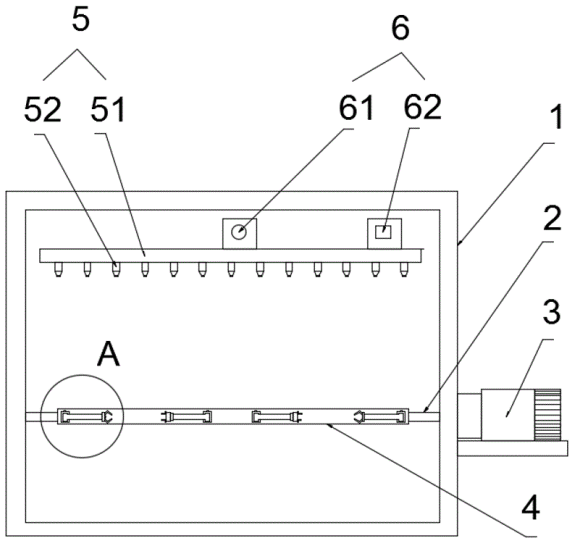
21: 2023/02820. 22: 2023/02/27. 43: 2023/05/29
51: E01B
71: CHINA CONSTRUCTION INDUSTRIAL & ENERGY ENGINEERING GROUP CO., LTD., BEIJING JIAOTONG UNIVERSITY
72: LIU, Fujian, GUO, Sheng, LIU, Jing, WANG, Hongjie, LIU, Duxin, LI, Wei, QU, Haibo, JIA, Yuzhou, YANG, Xinhua, LI, Yuting, ZHANG, Ruihang, CHEN, Guangrong, ZHANG, Mingming, GAO, Peng, ZHANG, Jinhe
33: CN 31: 202211197339.6 32: 2022-09-29
54: AUTOMATIC ASSEMBLY SYSTEM AND METHOD FOR TRACK PANEL OF SUBWAY
00: -
The present invention provides an automatic assembly system and method for a track panel of a subway. The automatic assembly system includes a fastener laying operating subsystem, a sleeper pose adjustment subsystem, and steel track margin adjustment subsystems controlled by a host. The fastener laying operating subsystem and the sleeper pose adjustment subsystem are respectively integrated on corresponding movable chassis. Both the movable chassis are located on running tracks. By using the present invention, highly automatic assembly and pose adjustment operations of a track panel of a subway can be realized, the construction efficiency of the track panel is effectively improved, the construction accuracy is ensured, less labor involves in the whole process, and a lot of labor costs is reduced.



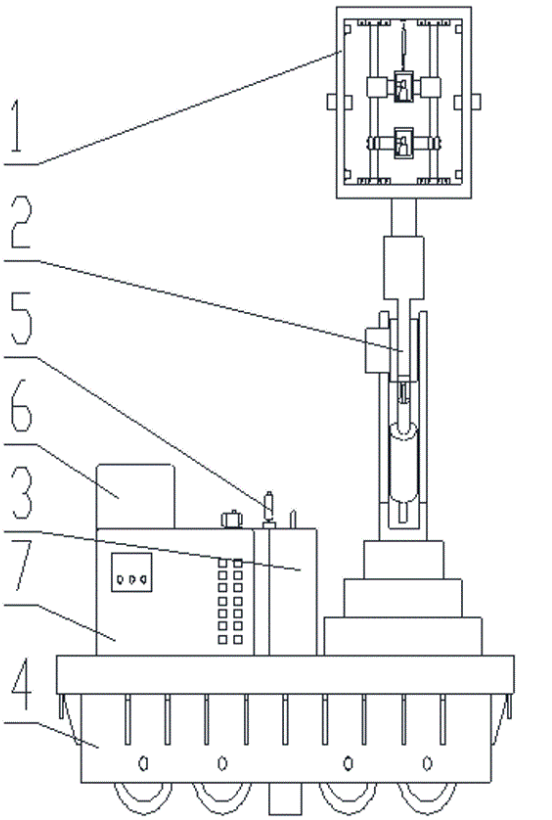
21: 2023/02823. 22: 2023/02/27. 43: 2023/05/29
51: A01B
71: FUJIAN ACADEMY OF FORESTRY
72: LI, Baofu, FANG, Bijiang, XU, Bing, ZHU, Wei, WU, Wei, DAI, Xinhua, LIAO, Yinzhen, LI, Yongguang
54: A GRAFTING METHOD FOR CASTANOPSIS HYSTRIX
00: -
The present invention is involved in the technical field of castanopsis hystrix grafting. The present invention discloses a grafting method and system for castanopsis hystrix, including grafting time selection, rootstock selection, scion selection, grafting operation, and post-grafting management. Grafting the scions with at least one spore will significantly improve the survival rate of a grafted castanopsis hystrix and lead to a higher grafting efficiency. According to the present invention, the grafting of castanopsis hystrix shall be carried out 2 to 5 days before and after the period from the end of December to the end of January (i.e. the Major Cold term) when the branches yet sprouted are full of plump buds in order to increase the survival rate. The method disclosed in the present invention boasts the advantages of shortening the period of cultivating and preserving excellent germplasm of castanopsis hystrix, rapid growth of castanopsis hystrix, early fruiting of castanopsis hystrix, simple operation, and low cost. With a survival rate of more than 70%, the method is suitable for grafting of the young seedlings in a castanopsis hystrix nursery. Cultivating grafted seedlings to establish improved germplasm orchard and clonal seed orchard is an effective way to preserve and utilize the excellent germplasm materials of castanopsis hystrix in different places, and a highly practical genetic modification technology for agriculture and forestry.



21: 2023/02824. 22: 2023/02/27. 43: 2023/05/29
51: H02N
71: CHENGDU VOCATIONAL AND TECHNICAL COLLEGE OF INDUSTRY
72: LI, Chunfang
54: A COATING DEVICE FOR AUTO PARTS
00: -
The present invention is intended for the automobile manufacturing field, and specifically refers to a coating device for auto parts. It comprises a housing, where a rotating shaft is provided, and one end of the rotating shaft passes through the side wall of the housing to connect with the driving motor; the coating fixture is installed on the rotating shaft, and it comprises crossbars; the cross bars are fixed on the rotating shaft, and a plurality of longitudinal bars are connected with the two sides of the crossbars, and the longitudinal bars are designed with slideways; one end of the connecting rod is connected with a slider, while the other end is connected with the fixing mechanism in a detachable pattern; a plurality of connecting rods are moveably connected with the longitudinal bars through the slider and fixed through the bolts and the locating holes in the longitudinal bars; and the coating mechanisms are set above the coating fixture in the housing. In the present invention, the connecting rod can slide long the longitudinal bar through the slider on one of its two ends, so as to adjust the spacing between the adjacent fixing mechanisms to adapt to different dimensions and models of auto parts.

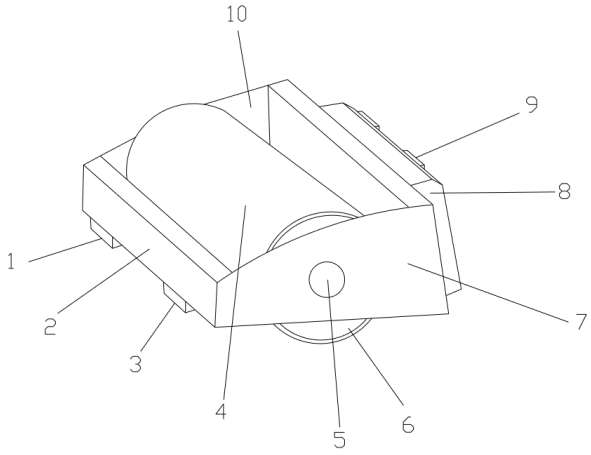


21: 2023/02827. 22: 2023/02/27. 43: 2023/05/29
51: B28D
71: CHINA CONSTRUCTION INDUSTRIAL & ENERGY ENGINEERING GROUP CO., LTD.
72: LIU, Jing, WANG, Hongjie, GU, Jianbing, LI, Wei, JIA, Yuzhou, LI, Yuting, ZHANG, Ruihang, WANG, Huiqian, CHEN, Weidong, LI, Bo
33: CN 31: 202210674769.6 32: 2022-06-15
54: DRILLING SYSTEM AND DRILLING METHOD FOR URBAN RAIL TRANSIT ENGINEERING
00: -
A drilling system and a drilling method for urban rail transit engineering are provided. The drilling system includes an execution unit, a six-degree-of-freedom robot unit, a dust collecting unit, a traveling unit, a hydraulic unit, a control unit, and a power unit. The traveling unit moves the whole drilling system to a designated drilling position along rails. The six-degree-of-freedom robot unit moves the execution unit to an accurate drilling position. The execution unit performs a drilling task. The power unit provides power for the drilling system. The dust collecting unit sucks solid particles produced during drilling. The hydraulic unit is used for transferring the power. The control unit is used for controlling the realization of various functions of the drilling system. Automatic mechanical equipment in a form of double drilling bits is used to replace manual drilling, the construction efficiency is improved.



21: 2023/02829. 22: 2023/02/27. 43: 2023/05/29
51: E01H
71: SHANGHAI MARITIME UNIVERSITY
72: LUO, Fan, ZANG, Zhaoliang
54: ICE AND SNOW REMOVAL EQUIPMENT WITH DETACHABLE FUNCTION
00: -

The present invention discloses an ice and snow removal equipment with detachable function, the structure of which comprises an ultrasonic generator, a front support, a second ultrasonic generator, a snow removal brush, a roller fixing shaft, a snow removal brush roller, a right support, a rear connection frame, a detachable connection head and a left support; the ultrasonic generator is connected to the front support, the second ultrasonic generator is provided on right part of the front support, the front support is fixedly connected to the right support, the roller fixing shaft is provided on the right support; the present invention has simple structure, which is provided with the ultrasonic generator, that can impact ice layer by ultrasound to improve snow removal effect of the snow removal brush, and is provided with a front impact protection plate, that can effectively protect the equipment from damage.



21: 2023/02830. 22: 2023/02/27. 43: 2023/05/29
51: A61K
71: THE THIRD PEOPLE`S HOSPITAL OF CHENGDU
72: HOU, Jun, YUAN, Yuan, HU, Yonghe, WEN, Xudong, PEI, Haifeng, XIONG, Shiqiang
54: TRADITIONAL CHINESE MEDICINE COMPOSITION AND PREPARATION METHOD AND APPLICATION THEREOF
00: -

The present invention relates to the technical field of traditional Chinese medicine. The present invention provides a traditional Chinese medicine composition and a preparation method and an application thereof. The traditional Chinese medicine composition is prepared from the following raw materials in parts by weight: 20-50 parts of lamiophlomis rotata, 10-15 parts of hairyvein agrimony, 10-15 parts of bletilla striata, 10-15 parts of callicarpa bodinieri, 5-9 parts of asiatic toddalia root, 5-7 parts of cortex phellodendri, 6-10 parts of radix clematidis and 2-5 parts of dendrobium officinale. The traditional Chinese medicine composition of the present invention is simple in formula, wide in raw material source, excellent in use effect, capable of effectively stopping bleeding and rapidly easing pain and convenient to produce and popularize on a large scale.

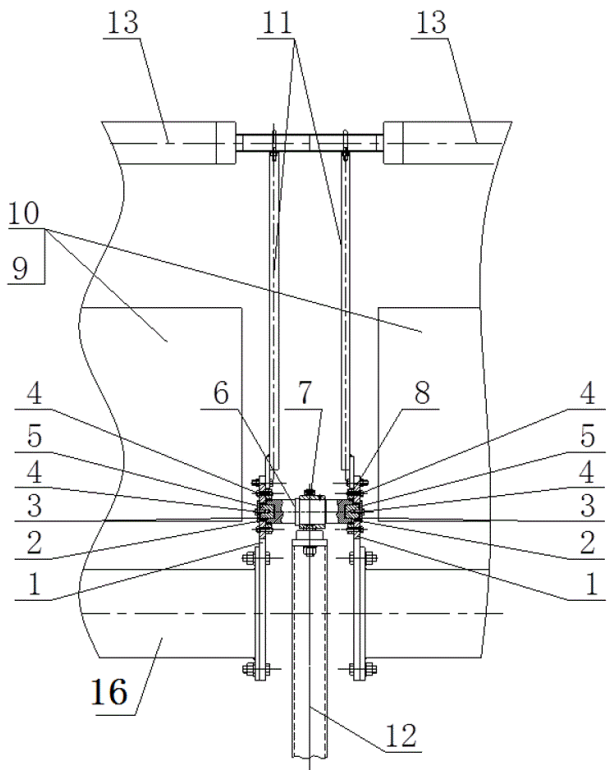
21: 2023/02834. 22: 2023/02/27. 43: 2023/05/29
51: F24S
71: HEBEI ZHUFENG APPARATUS & METER CO., LTD.

72: LI, Botao, WEI, Lifen, SUN, Jiangyao, PAN, Yaqiang

54: SOLAR TRACKING MECHANISM WITH CONNECTED SLOT TYPE SOLAR ENERGY UTILIZATION

00: -

The present invention relates to the technical field of solar energy, especially solar tracking mechanism with connected slot type solar energy utilization, characterized in that: comprises the vacuum heat collection tube bracket, the integral bracket, the bearing seat, the condenser unit connecting mechanism, two condenser unit connecting plates. The condenser unit connecting mechanism is respectively connected with the vacuum heat collection tube bracket and the integral bracket, and the bearing seat is located on the top of the integral bracket, with the bearing seat shaft being arranged horizontally. The bearing seat spindle respectively connects the corresponding two condenser unit connecting plates by fixing between the two condenser unit connecting plates through the bearing inner race, so that the two condenser unit connecting plates rotate horizontally; The condenser connecting bracket has a plurality of groups, and the plurality of condenser connecting bracket is connected with the horizontal support bar at the same time. The condenser unit connecting mechanism rotates around the sun. The present invention is characterized by reliable connection, no deformation, easy maintenance, etc.



21: 2023/02835. 22: 2023/02/27. 43: 2023/05/29

51: G01N

71: INSTITUTE OF ROCK AND SOIL MECHANICS, CHINESE ACADEMY OF SCIENCES

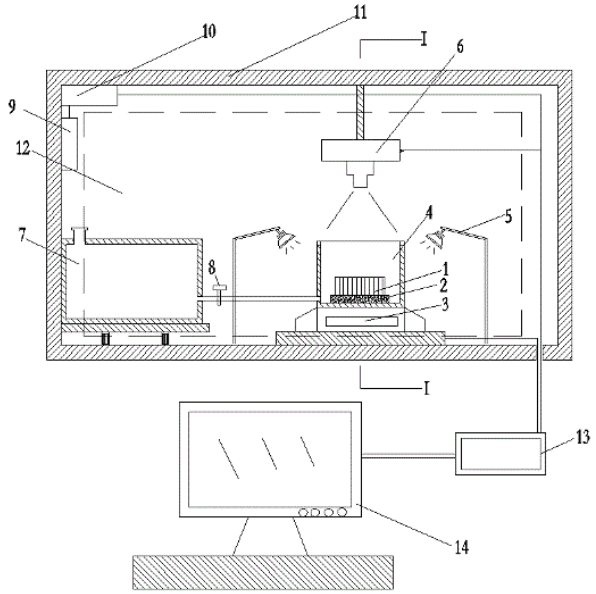
72: DAI, Zhangjun, HUANG, kang, CHEN, Shanxiong

54: A SOFT ROCK FRACTURE EXTENSION TEST DEVICE CAPABLE OF CONTROLLING WATER ABSORPTION CONDITIONS AND A TEST METHOD

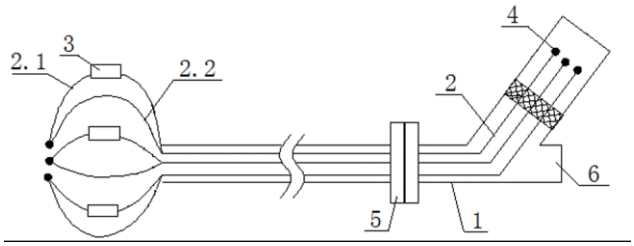
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The present invention discloses a soft rock fracture extension test device capable of controlling water absorption conditions and test method, comprising: An environment control system, a test operation system and a data acquisition system, wherein: The environment control system comprises a closed system formed by a test box and an operation door, and an LED lamp, a heater and a humidistat arranged in the test box. By adjusting the LED lamp, a light source in a closed environment is single and stable. The test operation system comprises a test specimen vessel arranged in the test box, a permeable stone arranged in the test specimen vessel, a test specimen arranged on the upper part of the permeable stone, and a water supply tank arranged in the test box and communicated with the

test specimen vessel through a pipeline. According to the present invention, different temperature and humidity environmental conditions can be simulated, three different natural water absorption modes, namely, capillary water absorption, soaking water absorption and gaseous water absorption, can be simulated, and the influence of multi-factor environmental conditions on natural water absorption characteristics of soft rock and water absorption fracture extension characteristics can be researched.

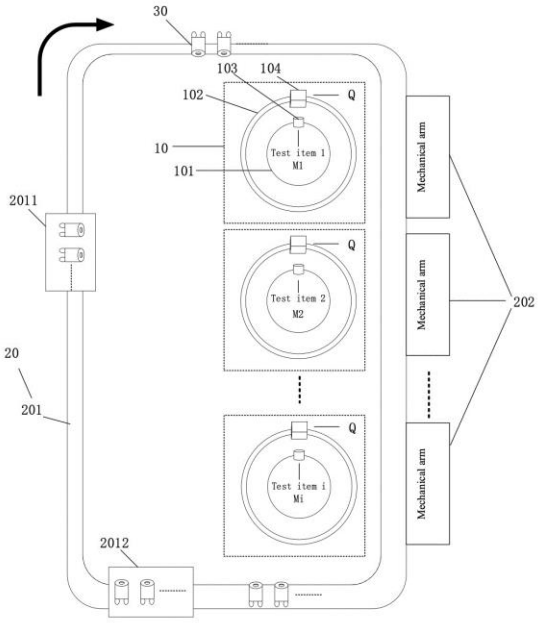


21: 2023/02836. 22: 2023/02/27. 43: 2023/05/29
51: G01K
71: HUANENG COAL TECHNOLOGY RESEARCH CO., LTD, ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, YUNNAN DIANDONG YUWANG ENERGY CO., LTD
72: Qingquan ZHAO, Feng CAI, Yongyuan LI, Fulong SUN, Xingen MA, Qi JIANG, Zongchao WANG, Wenbin ZHOU, Rui CAO, Bin WU, Shuping FU
33: CN 31: 202211712595.4 32: 2022-12-22
54: TEMPERATURE DETECTION METHOD AND SYSTEM FOR GOAF OF COAL FACE
00: -
The present invention discloses a temperature detection method and system for a goaf of a coal face. The detection method comprises the following steps: step 1, adopting a thermal bimetallic loop wire and calibrating the thermal bimetallic loop wire to obtain a fitting equation; step 2, arranging the thermal bimetallic loop wires in a return airway and an intake airway of the coal face respectively; step 3, working out a temperature at a corresponding location of the goaf based on the fitting equation by acquiring a voltage value generated on the thermal bimetallic loop wire. The detection system comprises a thermal bimetallic loop wire and a protective tube sleeved on a corresponding group of thermal bimetallic loop wires. The detection method and system provided by the present invention are simple and easy to implement, have the advantages of low cost and high accuracy of measurement, and can provide a strong support for safety production of a mine.



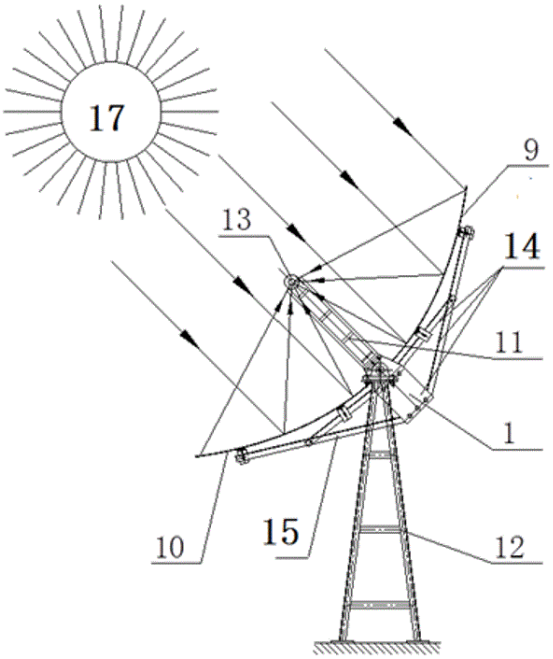
21: 2023/02838. 22: 2023/02/27. 43: 2023/05/29
51: H01L
71: ANQING NORMAL UNIVERSITY
72: Pan PAN, Kaiming HAO, Wenfa ZHAN, Qinghai LIU
33: CN 31: 202310139214.6 32: 2023-02-10
54: ITEMIZED TEST EQUIPMENT FOR NON-CONTACT CHARACTERISTICS OF SEMICONDUCTOR PHOTOELECTRIC DEVICE, AND METHOD
00: -
Disclosed are itemized test equipment for non-contact characteristics of a semiconductor photoelectric device, and a method. The equipment includes a plurality of test areas for a parallel test. Each test area includes a plurality of test apparatuses, and a plurality of short-circuiting apparatuses, each of which includes an insulated clamp and an inductance coil fixed below the clamp and in insulated connection with the clamp. An electric conductor is fixed in the clamp. The inductance coils of the plurality of short-circuiting apparatuses are connected in series and connected to a pulse power supply to form a first closed circuit. A to-be-tested piece is clamped in the clamp, and an electrode thereof is in contact with the electric conductor to form a second closed circuit. A light-emitting surface of the to-be-test piece is over

against a light incident direction of the test apparatuses.



21: 2023/02839. 22: 2023/02/27. 43: 2023/05/29
51: F24S
71: HEBEI ZHUFENG APPARATUS & METER CO., LTD.
72: LI, Botao, WEI, Lifen, SUN, Jiangyao, PAN, Yaqiang
54: A SLOT TYPE SOLAR ENERGY CONNECTION SYSTEM AND ITS METHOD
00: -

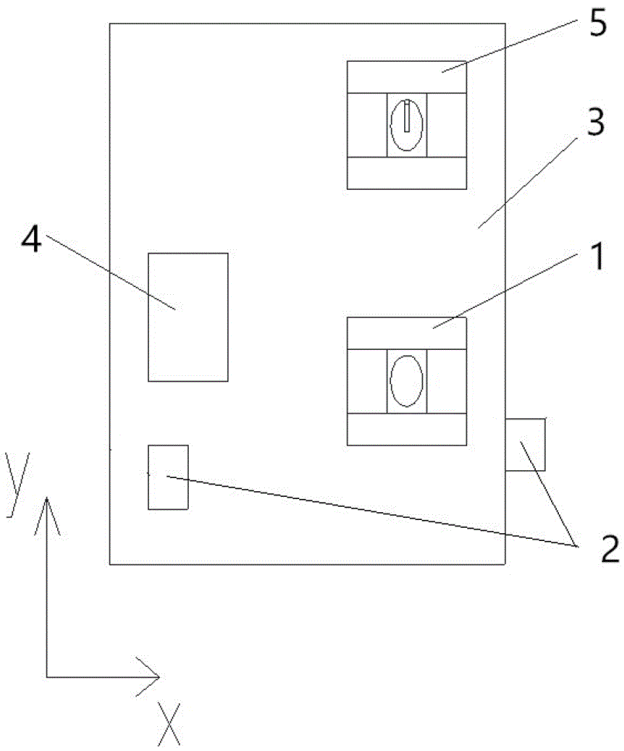
The present invention relates to the technical field of solar energy, especially a slot type solar energy connection system and its method. The system at least comprises: condenser unit, vacuum heat collection tube, vacuum heat collection tube bracket, and integral bracket. The condenser unit comprises the upper condenser, the lower condenser and the condenser unit connecting mechanism. The upper condenser and the lower condenser are connected to form a whole paraboloid through the condenser unit connecting mechanism, and the condenser unit connecting mechanism is connected to the vacuum heat collection tube through the vacuum heat collection tube bracket at the same time, so that the horizontal axis of the vacuum heat collection tube is connected and fixed on the focal axis of the paraboloid, and the condenser unit connecting mechanism is connected to the integral bracket, so that the condenser unit, the vacuum heat collection tube, and the vacuum heat collection tube bracket are formed and fixed on the ground base. The present invention is characterized by reliable connection, no deformation, easy maintenance, etc.



21: 2023/02845. 22: 2023/02/27. 43: 2023/05/29
51: G06T
71: CHINA CONSTRUCTION INDUSTRIAL & ENERGY ENGINEERING GROUP CO., LTD.
72: LIU, Jing, LI, Wei, LI, Yuting, GU, Jianbing, WANG, Hongjie, JIA, Yuzhou, ZHANG, Ruihang, WANG, Huiqian, ZHANG, Zhonghua, ZHANG, Jian, YAO, Xiaobing
33: CN 31: 202210882638.7 32: 2022-07-26
54: ATTITUDE PERCEPTION AND VISUAL SCANNING BASED BUILDING ENGINEERING CONSTRUCTION POSITIONING SYSTEM AND METHOD
00: -

The present invention provides an attitude perception and visual scanning based building engineering construction positioning system and method. The system includes a visual scanning unit, an attitude perception unit, a mobile platform, a control unit and an indication unit. The control unit includes an attitude perception control module, a visual scanning control module, an indication module, a building information modeling (BIM) module, a path planning module, an interaction module and a database module. A construction site can be marked on the BIM module of a construction

object; the positioning system is automatically controlled to reach a specified position; and then the construction site is accurately positioned. An actuating mechanism is guided to perform construction; an automation degree is high; and operating quality and efficiency are effectively improved. After completion of construction, construction completion conditions can be recorded and evaluated in the present invention, thereby facilitating timely repair and later tracing.

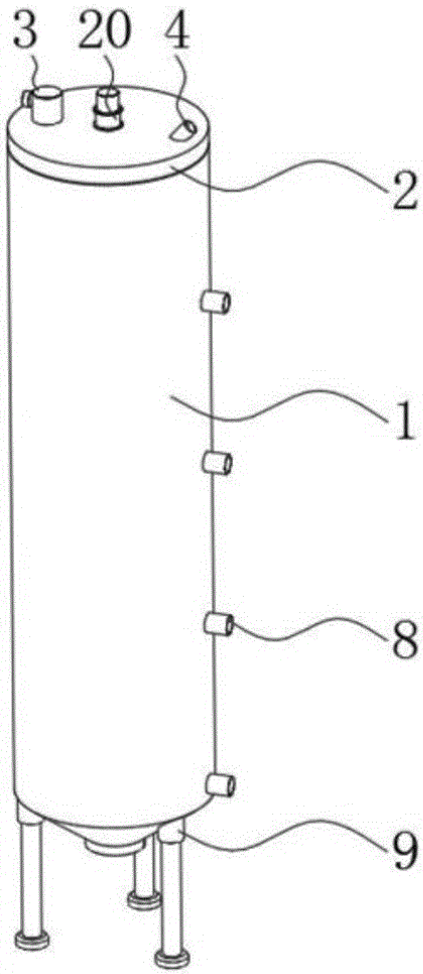


21: 2023/02846. 22: 2023/02/27. 43: 2023/05/29
51: B09B
71: TAIYUAN UNIVERSITY OF TECHNOLOGY
72: SONG, Yuncai, YUAN, Mengli, XUE, Xiaohui, FENG, Jie, LI, Wenying

54: A DEVICE SUITABLE FOR GASIFICATION OF ORGANIC SOLID WASTE

00: -

The present invention belongs to the technical field of organic solid waste raw materials, and discloses a device suitable for gasification of organic solid waste, which comprises a reactor body, the top of the reactor body is in threaded sleeve connection with a sealing cover, and the left side of the top of the sealing cover is fixedly communicated with a carbon-based catalyst tar cracking device. And the right side of the top of the sealing cover is fixedly communicated with a feed inlet. Through the carbon-based catalyst tar cracking device, the lower shroud, the upper shroud and the multi-point distributed gasifying agent inlet, solid waste moves downwards along the upper direction of the inner cavity of the reactor body under the action of the carbon-based catalyst tar cracking device; furthermore, a gasifying agent entering the reactor body through the gasifying agent inlet can flow downwards along the outer surface of the lower shroud under the cooperation of the gasifying agent inlet and the lower shroud, so that particle airflow integrally flows along the surfaces of the upper shroud and the lower shroud; therefore, the effect of uniform mixing reaction can be quickly achieved.



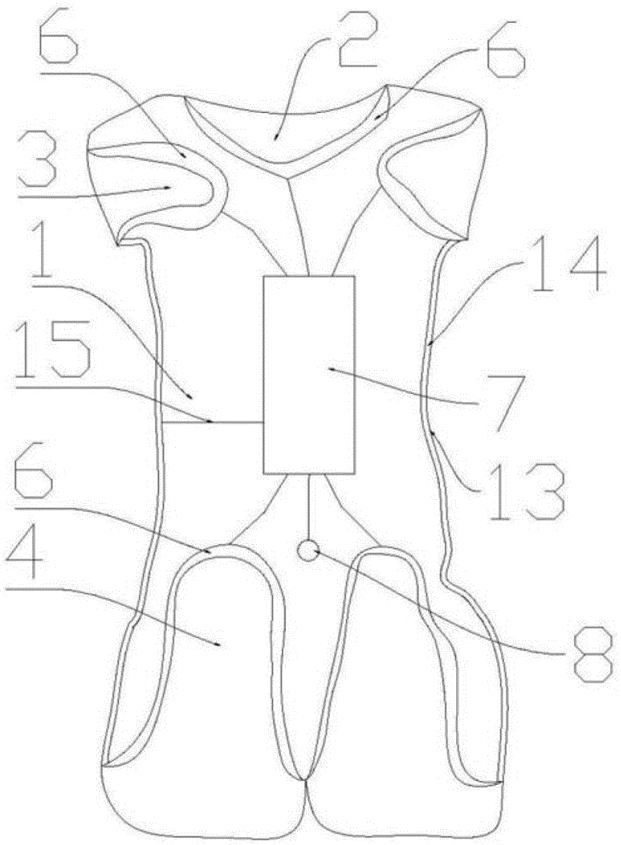
21: 2023/02864. 22: 2023/02/27. 43: 2023/05/29
51: E21F
71: JIAXING VOCATIONAL & TECHNICAL COLLEGE

72: LI, Haoying, WANG, Qinhua, ZHOU, Fen, ZHANG, Qingxia

54: AN INTELLIGENT MODEL THAT SUPPORTS CONVENIENT CLOTHES CHANGE

00: -

The present invention embodies an intelligent model that supports convenient clothes change. It comprises the body, head, hands and feet. The body is made of hard material and the head, hands and feet are made of flexible materials. The said head, hands and feet have their respective cavities. The body has several accommodation cavities and air spaces inside. The said accommodation cavities are connected to air spaces respectively. The body is connected to an air pipe and the air pipe is connected to an air inflation and suction pump. The intelligent model that supports convenient clothes change in the present invention is able to hide limbs and head quickly and facilitate the convenient change of clothes for the model. The limbs and head of the model will automatically stretch after the clothes change is completed, so the clothes change can be completed by a simple adjustment of the clothes, presenting the advantages of convenience and efficiency. The model can be profiled based on equal proportion of the human body size and structure, which will improve the reality of the model and show a more realistic effect of clothes on the human body.



21: 2023/02865. 22: 2023/02/27. 43: 2023/05/29

51: E21F

71: JIAXING VOCATIONAL & TECHNICAL COLLEGE

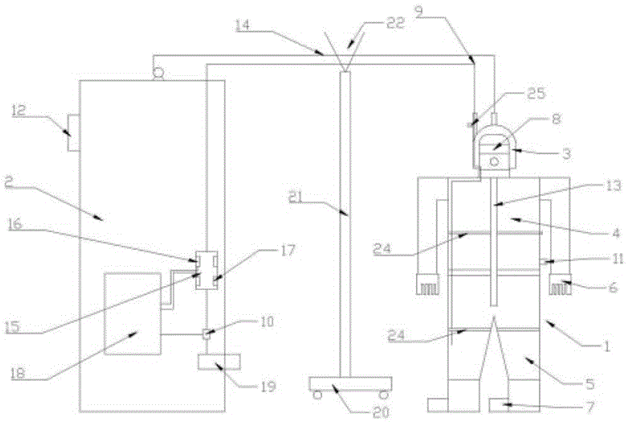
72: WANG, Qinhua, LI, Haoying

54: AN ANTI-TOXIC GAS SAFETY WORK CLOTHES AND A USE METHOD THEREOF

00: -

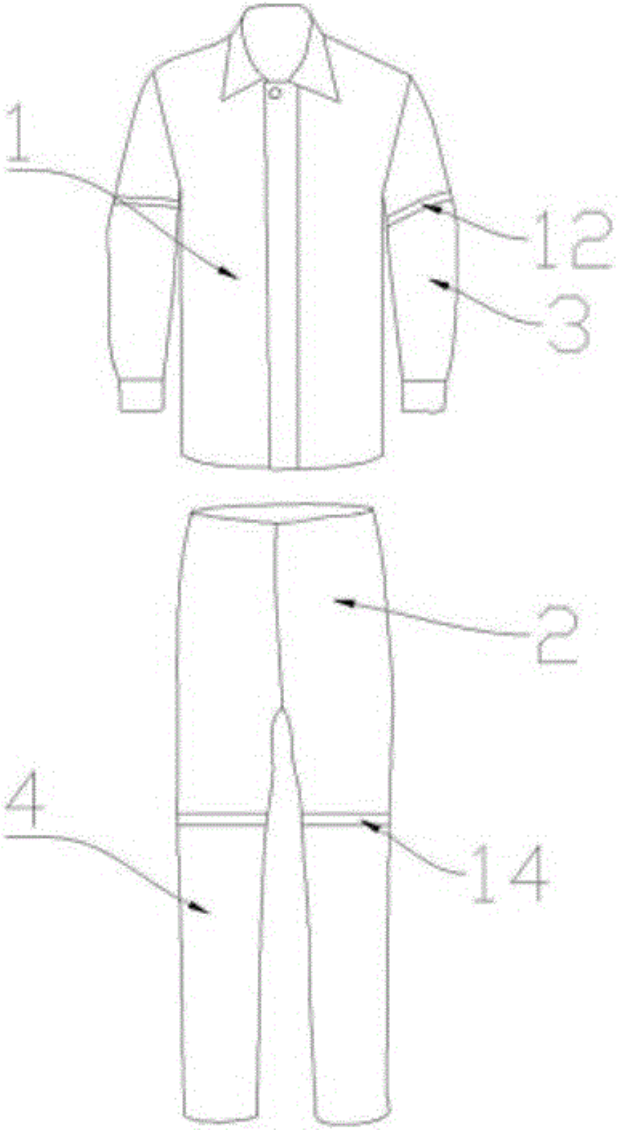
The present invention provides an anti-toxic gas safety work clothes and use method thereof, and the work clothes comprises a clothes body and an external cabinet; wherein the clothes body comprises a helmet, an upper clothes and a lower clothes; the helmet is hermetically connected with the collar of the upper clothes, and the upper clothes is hermetically connected with the lower clothes; the cuff of the upper clothes is hermetically connected with a glove, the trouser leg of the lower clothes is connected with a boot; the helmet is internally closed and provided with a sight glass; the helmet is also connected with a ventilation pipe, and the external cabinet is installed with a ventilation pump, the ventilation pipe is connected with the ventilation pump, and the upper or lower clothes is provided with a one-way air valve; and the helmet is internally

installed with a toxic gas detector, which is connected with an alarm and the alarm is installed on the external cabinet. The anti-toxic gas safety work clothes of the present invention is suitable for being used in special places with toxic gas, such as sewer, biogas digester and chemical processing pool and improves the safety of the workers during working.



21: 2023/02866. 22: 2023/02/27. 43: 2023/05/29
51: E21F
71: JIAXING VOCATIONAL & TECHNICAL COLLEGE
72: WANG, Qinhua, LI, Haoying
54: A DETACHABLE OUTDOOR RESCUE WORKING SUIT WITH THE STRETCHER FUNCTION
00: -

The present invention discloses a detachable outdoor rescue working suit with the stretcher function, which comprises a jacket and a pair of trousers; two sleeves are provided for the jacket, and two legs are provided for the trousers; the said sleeves and the jacket are connected with each other in a detachable pattern, the said legs and the trousers are also connected with each other in a detachable pattern; the two ends of the legs are connected with a plurality of metal buttons, and the two ends of the said sleeves are provided with a plurality of metal buttons; the backside of the said jacket is provided with two mounting bags, and a telescopic rod is inserted into each mounting bag; hanging holes are provided on the said telescopic rod and the metal buttons can pass though the hanging holes. The present invention refers to a detachable outdoor rescue working suit with the stretcher function, which is versatile and can reduce the carriage of rescue tools in the outdoor rescue process. It is featured with ease of use, convenience for carrying, versatility, strong utility and other advantages.



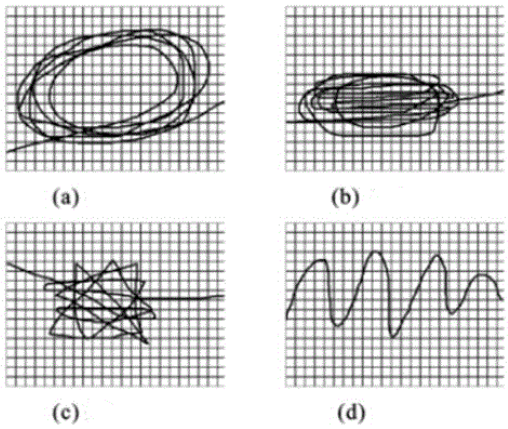
21: 2023/02867. 22: 2023/02/27. 43: 2023/05/29
51: C25C
71: INSTITUTE OF PROCESS ENGINEERING, CHINESE ACADEMY OF SCIENCES
72: ZHANG, Hui, YU, Ying, XUE, Tianyan, YAN, Zhanpeng, QI, Tao
33: CN 31: 202210430805.4 32: 2022-04-22
54: METHOD FOR CLEAN RECOVERY OF PALLADIUM
00: -

A method for clean recovery of palladium is provided, including the following steps: mixing a

palladium-containing material, a Ce4+-containing acidic solution, and an additive, subjecting a resulting mixture to leaching to obtain a Pd2+-containing solution, and subjecting the Pd2+-containing solution to electrolysis to obtain palladium. In the method, the palladium-containing material is subjected to solution leaching with Ce4+ as an oxidative leaching agent and a chlorine-containing additive. After leaching is complete, a Ce3+ and Pd2+-containing leaching liquor is subjected to electrolysis to realize the green regeneration of Ce4+ and palladium. The method of the present disclosure does not lead to the generation of NOx and waste liquid. The present disclosure can significantly reduce the environmental impact and production cost and has excellent economic benefits and application prospects.

21: 2023/02868. 22: 2023/02/27. 43: 2023/05/29
51: A01K
71: INSTITUTE OF ANIMAL SCIENCE AND VETERINARY MEDICINE, SHANDONG ACADEMY OF AGRICULTURAL SCIENCES
72: ZHANG, Xianglun, LIANG, Meng, ZHAO, Hongbo, YANG, Zhaojun, LI, Chuanhao, LIU, Xiaomu, SHENG, Qingkai, YANG, Libo
33: CN 31: 202310021050.7 32: 2023-01-07
54: A FEED FOR IMPROVING THE MEAT QUALITY OF BEEF CATTLE AND A METHOD FOR BEEF CATTLE FEEDING
00: -
The present invention provides a feed for improving the meat quality of beef cattle and a method for beef cattle feeding, belongs to the technical field of beef cattle feeding. According to the feed for improving the meat quality of beef cattle provided by the present invention, the said feed is mainly composed of a basal feed and functional additives; The said basal feed comprises the following raw materials in parts by weight: 40-60 parts of alfalfa hay, 15-25 parts of corn, 10-16 parts of cottonseed meal, 8-12 parts of extruded soybean, 5-15 parts of bran, 0.4-0.6 part of calcium carbonate, 0.3-0.5 part of calcium bicarbonate and 0.1-0.2 part of table salt; The said functional additives comprise one or more of curcumin, chlorogenic acid and quercetin. According to the present invention, by adding functional additives of curcumin, quercetin and chlorogenic acid in the basal feed for beef cattle, the growth performance and beef quality of beef cattle can be improved in combination with a staged feeding method.

21: 2023/02870. 22: 2023/02/27. 43: 2023/05/10
51: G06F
71: Nanjing Beidou Innovation and Applied Technology Research Institute Co., Ltd.
72: Zhiqiang DU, Baoqi YAN, Wei GUO, Yaxin FAN
33: CN 31: 202011047211.2 32: 2020-09-29
54: SHIP WANDERING DETECTION METHOD BASED ON AIS DATA
00: -
The present invention discloses a ship wandering detection method based on AIS (Automatic Identification System) data. According to acquired AIS trajectory data of a ship, wandering behaviors of the ship are detected according to the massive trajectory data, the wandering behaviors of the ship are classified,and relationships between trajectories of four typical abnormal movement behaviors of the ship and defined variables are summarized. The detection for the wandering behaviors of the ship can provide decision support for maritime safety supervision, so as to enhance the safety of maritime traffic and ensure the safe navigation of the ship, which has great significance to promote the safety, efficiency and smoothness of maritime transportation.

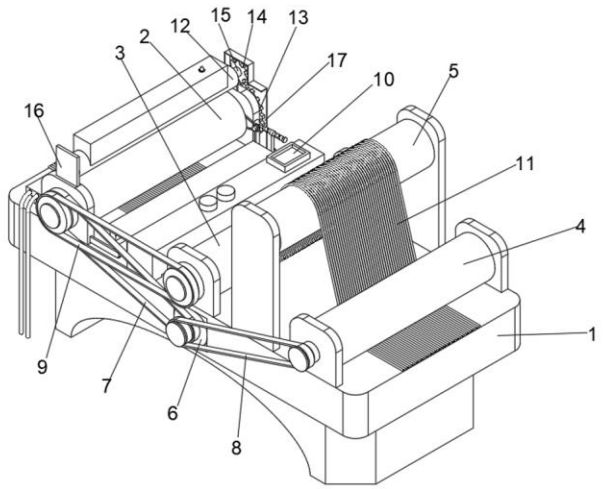


21: 2023/02878. 22: 2023/02/27. 43: 2023/05/29
51: B32B
71: NANJING NINGTONG INTELLIGENT TRANSPORTATION TECHNOLOGY RESEARCH INSTITUTE CO.,
72: CAI, Lili, WU, Chunying

54: HIGH-STRENGTH FIBER MATERIAL AND MANUFACTURING METHOD THEREOF

00: -

A high-strength fiber material and a manufacturing method thereof are disclosed. According to the high-strength fiber material and the manufacturing method of the high-strength fiber material, when static electricity is removed through neutralization and absorption, the diffusion range of generated positive and negative ions can be increased, and static electricity in a larger range can be absorbed, so that neutralization and absorption are performed on the surface of the fiber. At the same time, the environment is improved to a certain extent, and static electricity in the air and related structures is reduced.



21: 2023/02881. 22: 2023/02/27. 43: 2023/05/29

51: C04B

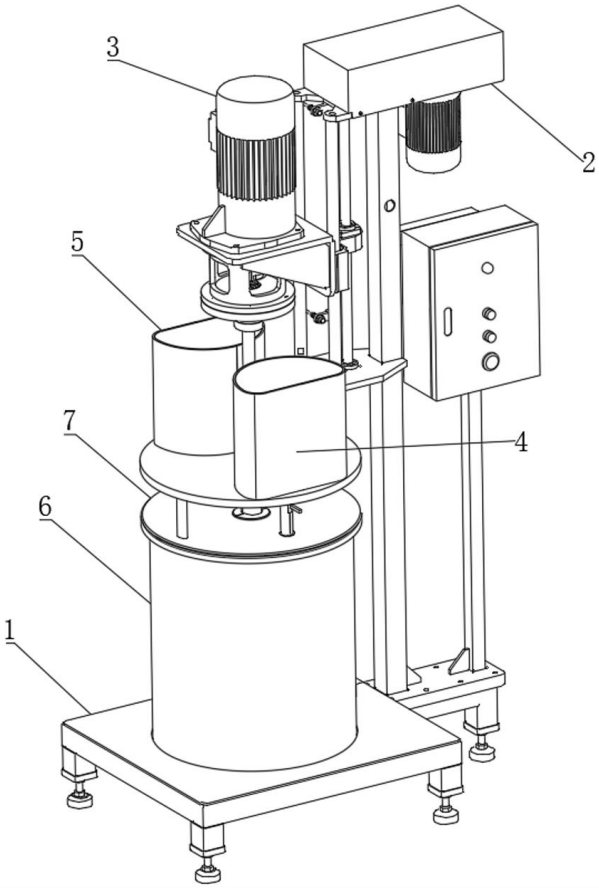
71: NANJING NINGTONG INTELLIGENT TRANSPORTATION TECHNOLOGY RESEARCH INSTITUTE CO.,

72: WU, Chunying, CAI, Lili

54: ULTRA-HIGH TOUGHNESS CEMENTITIOUS COMPOSITE FOR ROADS AND PREPARATION METHOD OF ULTRA-HIGH TOUGHNESS CEMENTITIOUS COMPOSITE

00: -

The present disclosure relates to the technical field of pavement materials, in particular to a preparation method of an ultra-high toughness cementitious composite for roads. The present disclosure aims to provide an ultra-high toughness cementitious composite for roads and a preparation method of the ultra-high toughness cementitious composite. Cement dust can be effectively prevented from rising and affecting the working environment of workers when cement is added. At the same time, dry materials can be screened out and crushed to prevent the dry materials from affecting the preparation quality of the material.



21: 2023/02896. 22: 2023/02/27. 43: 2023/05/10

51: C02F; E03B; E03C; G01F; G05B

71: CHINA ARCHITECTURE DESIGN & RESEARCH GROUP

72: LIU, Yongwang, ZHAO, Li, LU, Xingchao, YIN, Wenchao, ZHAO, Xin, LI, Jianye, ZHANG, Fangzhai

33: CN 31: 202010813150.X 32: 2020-08-13

33: CN 31: 202010813348.8 32: 2020-08-13

33: CN 31: 202010813505.5 32: 2020-08-13

33: CN 31: 202021684240.5 32: 2020-08-13

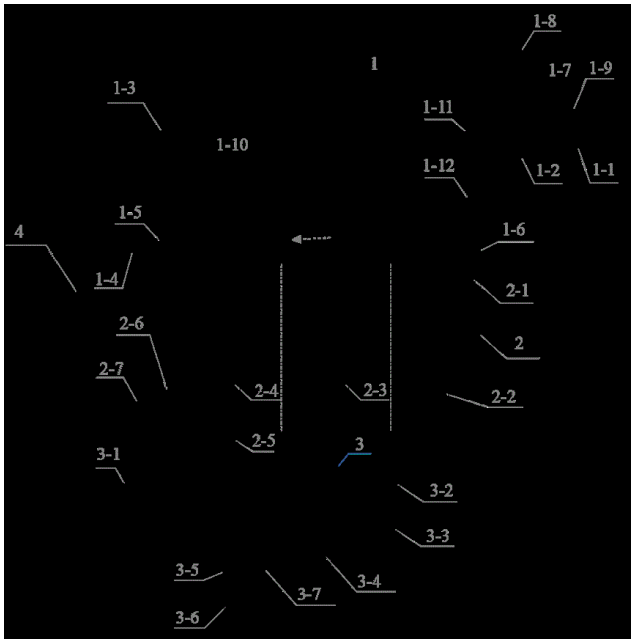
33: CN 31: 202021685608.X 32: 2020-08-13

54: INDOOR GREY WATER PURIFICATION AND REUSE DEVICE, SYSTEM AND METHOD FOR PUBLIC BUILDINGS

00: -

The present application relates to indoor grey water purification and reuse device, system and method for public buildings, pertaining to the field of urban water conservation, and solved the problem that

cascaded cycling and use of indoor water supply and automatic control for stable operations cannot be realized in public buildings. The grey water purification and reuse device comprises a grey water storage tank, a grey water treatment assembly and a pneumatic reclaimed water tank assembly which are sequentially arranged from top to bottom. The grey water storage tank is used for storing grey water from one floor above collected by a grey water collecting device. The grey water treatment assembly is used for carrying out multistage purification treatment on the grey water in the grey water storage tank. The pneumatic reclaimed water tank assembly is used for disinfecting reclaimed water subjected to multistage purification treatment and supplying water to reclaimed water reuse facilities on the current floor of the building in a constant-pressure mode. The present application realizes collection, treatment and reuse of indoor grey water of public buildings, and enables the indoor grey water to replace tap water for toilet flushing, thereby significantly reducing tap water consumption in public buildings, and improving water-saving efficiency for cities.

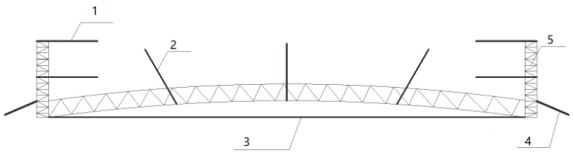


21: 2023/02897. 22: 2023/02/27. 43: 2023/05/29
51: E21D
71: JIAOJIA GOLD MINE OF SHANDONG GOLD MINING (LAIZHOU) CO., LTD, UNIVERSITY OF SCIENCE AND TECHNOLOGY BEIJING
72: SUN, Xiaogang, WANG, Yu, TONG, Chuan, FU, Jianxin
33: CN 31: 202210029332.7 32: 2022-01-12

54: LARGE-SPAN FALSE ROOF STRUCTURE FOR UNDERHAND HORIZONTAL DRIFT CUT-AND-FILL MINING AND CONSTRUCTION METHOD THEREOF

00: -

The present disclosure provides a large-span false roof structure for underhand horizontal drift cut-and-fill mining and a construction method thereof, and belongs to the technical field of mining. The structure includes a cemented filling body, a prefabricated skeleton, and fixing anchor rods, where the prefabricated skeleton includes an arc-shaped net rack, rectangular net racks, prestressed rebars, rebar anchor rods, and metal nets; the arc-shaped net rack is provided at a bottom of a filled false roof and is a double-layer net rack, the prestressed rebars are respectively welded to two ends of bottom lower rebars of the arc-shaped net rack, the rectangular net racks are respectively arranged at two sides of the arc-shaped net rack, rebar anchor rods I are welded on each of the rectangular net racks, rebar anchor rods II are welded on the arc-shaped net rack, the rectangular net rack is fixed on a sidewall through the fixing anchor rods, the metal nets are respectively provided at a back side of the rectangular net rack and on the prestressed rebars, and the cemented filling body fills the prefabricated skeleton. The structure has advantages of reasonable structure, high strength, desirable safety and the like, and can effectively enlarge the size of the drift without affecting safety, thereby greatly improving a mining efficiency. The false roof structure is particularly applied to deep mining.



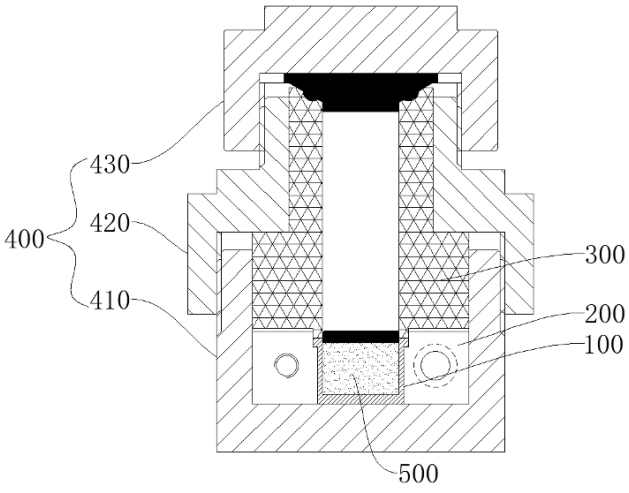
21: 2023/02911. 22: 2023/02/27. 43: 2023/05/29
51: C23F; E21B; F16J
71: SICHUAN JIARUI TECHNOLOGY CO., LTD.
72: ZHENG, Yu, LIU, Nian, CAO, Lijuan, LI, Weiming
33: CN 31: 202110086761.3 32: 2021-01-22

54: SEALED COBALT LEACHING DEVICE, REAGENT, USE OF METHOD FOR COBALT

LEACHING AND POLYCRYSTALLINE DIAMOND COMPOSITE SHEET

00: -

The present application discloses a sealed cobalt removal tooling, method and reagent, and a polycrystalline diamond compact. The tooling comprises a sealing sleeve, a clamping mechanism, and a pressing mechanism. The sealing sleeve is configured to be sleeved over an outer wall of a workpiece; the clamping mechanism is sleeved over an outer wall of the sealing sleeve; the clamping mechanism is configured to provide a first pressure to the sealing sleeve; the pressing mechanism is arranged on the top of the sealing sleeve and is configured to provide a second pressure to the sealing sleeve; and an inner cavity for containing a chemical reagent is formed inside the pressing mechanism, and the top of the workpiece can extend into the inner cavity. The present application has the advantages that the overall service life of the tooling can be prolonged, a reaction speed of the chemical reagent can be increased, a cobalt removal depth can reach 1200 μm or above, and the requirements for ultra-deep cobalt removal of the workpiece can be met.

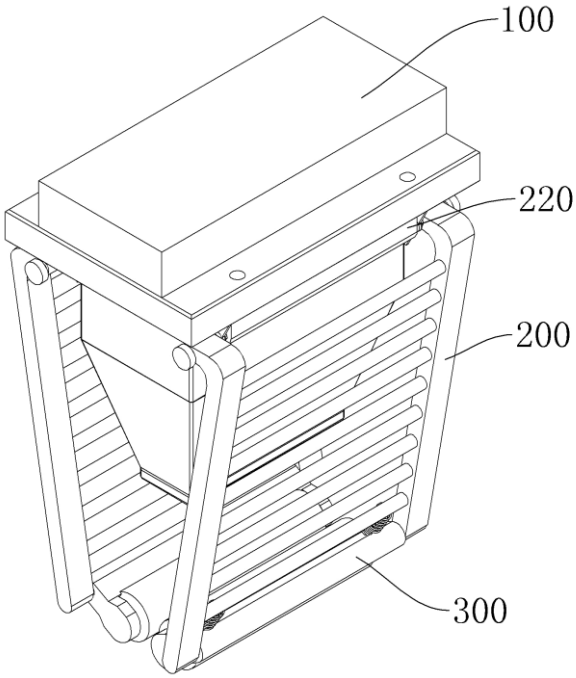


21: 2023/02985. 22: 2023/02/28. 43: 2023/05/09
51: B41J
71: Henan Kenex Tools Co., Ltd
72: Hairui WEI, Weifei YANG, Yinan ZHAO, Xiaozheng ZHANG

54: PRINTING DEVICE OF VACUUM PACKAGING MACHINE

00: -

The disclosure provides a printing device of a vacuum packaging machine, which comprises a coding component, wherein the coding component is used for coding vacuum packaging bags; Also comprises two unfolding roller assemblies, wherein the unfolding roller assemblies are used for unfolding the surface of the vacuum packaging bag before coding; Also comprises two unfolding assemblies, and each unfolding assembly is used for driving the unfolding roller assembly to rotate away from the center of the coding assembly. The disclosure applies a force in the opposite direction to the vacuum packaging bag through the unfolding rollers, so that the code spraying area of the vacuum packaging bag is tight and clings to the outer peripheral surface of the bar, thereby flattening the outer surface of the vacuum packaging bag in the area between the two unfolding rollers, and at this time, the head of the coding machine located between the two unfolding rollers can mark the lower vacuum packaging bag. Because the surface of the packaging bag is completely flattened, the problems of code breakage and unclear coding will not occur when the head of the coding machine is coding, and good coding quality can be formed.



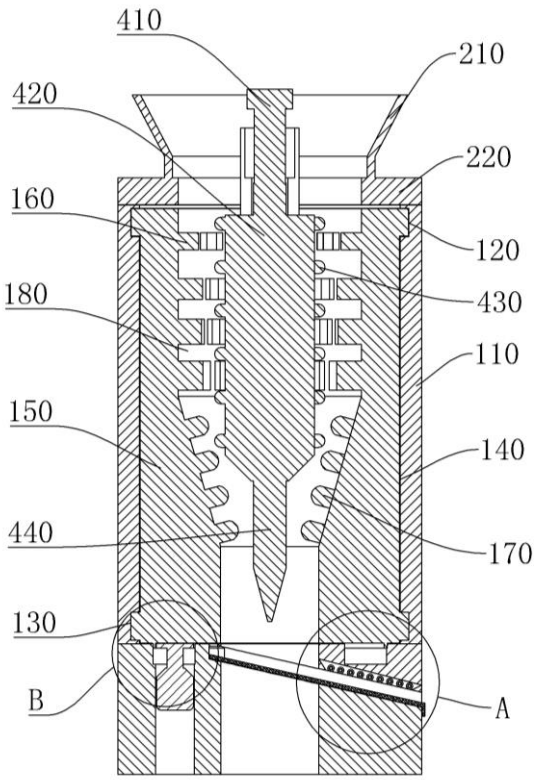
21: 2023/02987. 22: 2023/02/28. 43: 2023/05/09
51: B01J
71: Henan Kenex Tools Co., Ltd

72: Weifei YANG, Hairui WEI, Xiaozheng ZHANG, Yinan ZHAO

54: AUTOMATIC GRANULATION DEVICE FOR CUBIC BORON NITRIDE RAW MATERIALS

00: -

The disclosure provides a printing device of a vacuum packaging machine, which comprises a coding component, wherein the coding component is used for coding vacuum packaging bags; Also comprises two unfolding roller assemblies, wherein the unfolding roller assemblies are used for unfolding the surface of the vacuum packaging bag before coding; Also comprises two unfolding assemblies, and each unfolding assembly is used for driving the unfolding roller assembly to rotate away from the center of the coding assembly. The disclosure applies a force in the opposite direction to the vacuum packaging bag through the unfolding rollers, so that the code spraying area of the vacuum packaging bag is tight and clings to the outer peripheral surface of the bar, thereby flattening the outer surface of the vacuum packaging bag in the area between the two unfolding rollers, and at this time, the head of the coding machine located between the two unfolding rollers can mark the lower vacuum packaging bag. Because the surface of the packaging bag is completely flattened, the problems of code breakage and unclear coding will not occur when the head of the coding machine is coding, and good coding quality can be formed.



21: 2023/03016. 22: 2023/02/28. 43: 2023/05/10

51: G09B

71: The First Affiliated Hospital, Sun Yat-sen University

72: Wenbin LEI, Yihui WEN, Wenjie HU, Jie DENG, Xingmei WU

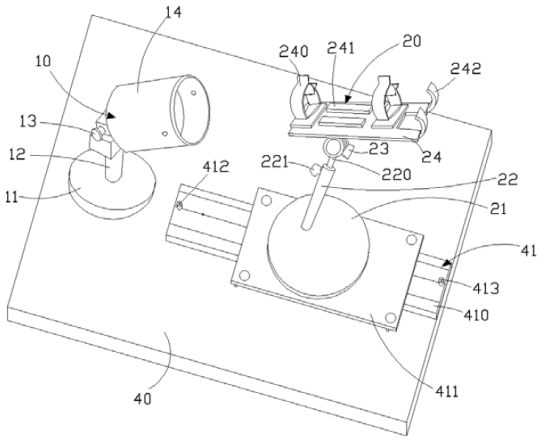
33: CN 31: 2022114596185 32: 2022-11-16

54: SIMULATED TEACHING AND PRACTICAL TRAINING SYSTEM OF MINIMAL INVASIVE SURGERY OF THROAT

00: -

The present invention discloses a simulated teaching and practical training system of minimal invasive surgery of throat. The system comprises a throat simulated operation apparatus, a laryngoscope, an adjustable surgical hand holder, a movable surgical microscope and a real-time dynamic display, wherein the movable surgical microscope is used for observing an image in the laryngoscope by an operator; the movable surgical microscope is provided with a built-in camera; and the real-time dynamic display is electrically connected with the built-in camera to display and record a real-time dynamic video of dissection steps of the operator. According to the system, the operation steps of the operator are displayed and

recorded in real time through the real-time dynamic display, so that a teacher can conveniently point out the operation steps on site or the subsequent operator can conveniently watch own operation and correct operation according to the guidance of the teacher; standardized, visualized and scientific evaluation can be realized; and the teacher, an assistant or other students can conveniently watch the real-time dynamic video of dissection of the operator so as to observe the completion condition of the dissection steps of the operator, and observe whether the dissection steps are standard or not, etc.

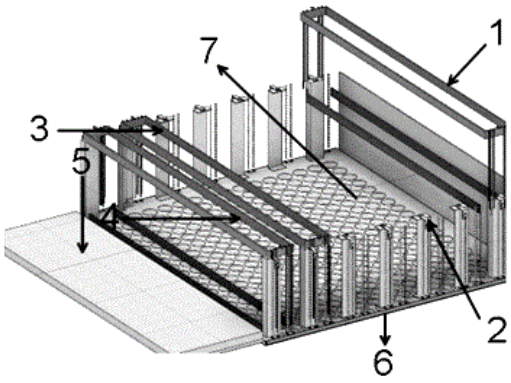


21: 2023/03088. 22: 2023/02/28. 43: 2023/05/23
51: A01C; A01G
71: Institute of Tropical and Subtropical Economic Crops, Yunnan Academy of Agricultural Sciences
72: DONG, Meichao, WANG, Ziran, GAO, Junyan, YANG, Fan, ZHOU, Dongguo, GUO, Lina, WANG, Shaohua, ZHAO, Jun, YANG, Shizao
54: GRAFTING METHOD FOR INCREASING GERMINATION RATE AND GROWTH RATE OF LEMONS
00: -
The present disclosure relates to a grafting method for increasing a germination rate and a growth rate of lemons, and belongs to the technical field of cultivation of the lemons. The grafting method of the present disclosure includes the following steps: grafting lemon grafting varieties onto rootstocks from October every year to February of the following year; irrigating or watering the rootstocks once 3-5 days before grafting; irrigating or watering the rootstocks once on the 2nd day to the 3rd day after grafting; the rootstocks being fructus aurantii field-planted for more than one year; and before the rainy season comes, watering the rootstocks once every 15-20 days, to ensure that a field water-holding capacity of seedbed soil reaches 60 percent or above. Lemon grafted seedlings are high in germination rate, rapid in outplanting, high in rate of superior seedlings and high in outplanting rate.

21: 2023/03119. 22: 2023/02/28. 43: 2023/05/23
51: A61B; A61K
71: THE FIRST PEOPLE'S HOSPITAL OF YINCHUAN
72: MA, Xiaoping, BAO, Chunxu, GE, Majiatong, DUAN, Bin, GAO, Wen, WANG, Haoning, SUN, Lin, WEI, Jianshe,
54: FLEXIBLE PIEZORESISTIVE HYDROGEL 3D LIVER MODEL WITH MEASURABLE ELASTIC MODULUS AND PREPARATION METHOD THEREOF
00: -
The present invention provides a flexible piezoresistive hydrogel 3D liver model with measurable elastic modulus and a preparation method thereof. The model comprises a liver body model and a fat model; the fat model is wrapped outside the liver body model; a flexible piezoresistive sensor is arranged in the fat model, wherein the liver body model is formed by 3D printing from a first hydrogel; the fat model is formed by 3D printing from a second hydrogel. The liver body and the fat model made of the first and second hydrogels simulates an actual examination or puncture state, which is beneficial for improving training efficiency. The flexible piezoresistive sensor arranged in the fat model is beneficial for a trainer to master the operating force. After the models are punctured, wounds can heal rapidly and automatically and without leaving marks, which is beneficial for prolonging the service life of the model.

21: 2023/03124. 22: 2023/02/28. 43: 2023/05/26
51: F24F
71: DR.VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, KADAM, Kunal Chandrakant, HAMBARDE, Manojkumar
72: KADAM, Kunal Chandrakant, HAMBARDE, Manojkumar
54: OUTDOOR VEHICULAR AIR PURIFIER FOR HEAVY MOTOR VEHICLES
00: -

Design of specially designed air purification systems to be mounted on top of heavy motor vehicles in the city (ex. buses). The four-stage filtration system is designed keeping in mind outdoor pollutants and conditions. This system will constantly and passively purify the city air as the vehicle goes around its route and is designed to work with minimal to low human control as well as maintenance required is presented. The 4-layer air purifier is assembled using a 5.0 mm thick aluminum sheet equipped with sliding mechanisms meant for easy access of the filters, wire mesh filter, fine mesh polymer filter, Electrostatic precipitator and Photocatalytic oxidizer. This high efficiency, low maintenance design model could be used in metropolitan, industrial cities to reduce the health effects faced by the residents due to inhaling polluted air. Polluted air is forced into the first layer due to the ram ventilation force caused by the moving bus and is progressed through the rest of the layers which each purify different types of pollutants and releases clean air through the back. Perforation is provided in the floor of the filter which opens into a collection chamber which is installed to make maintenance easier. The individual filter layers as well as the collection chamber are equipped with a sliding mechanism.



21: 2023/03126. 22: 2023/02/28. 43: 2023/05/26
51: B01J
71: DR.VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, DESHMUKH, Minal Prashant
72: DESHMUKH, Minal Prashant

54: A POTENTIAL FEEDSTOCK OF NELUMBO NUCIFERA FOR OIL ABSORBENT

00: -

The present invention relates to a potential feedstock of nelumbo nucifera for oil absorbent. This disclosure covers a method of removing spilled oil from water surfaces without further injuring the environment, by applying a carbohydrate fatty acid ester in powder, fibrous, or granule form to the oil covered surface. The preferred ingredient is cellulose acetate. The additive is non-toxic, bio-degradable, water insoluble, and is not degraded by the acids in petroleum fuels. The additive is sprinkled on the surface of the oil coated water and after absorbing many times its weight in oil is easily removed. The picked up oil is easily removed from the cellulose acetate and up to 95% recovery of spilled oil is possible. The cellulose acetate also can be reused. Cottonseed hulls and sawdust as the starting cellulose material are desirable because of low cost and the enhanced oil absorbing character of the resulting acetate.

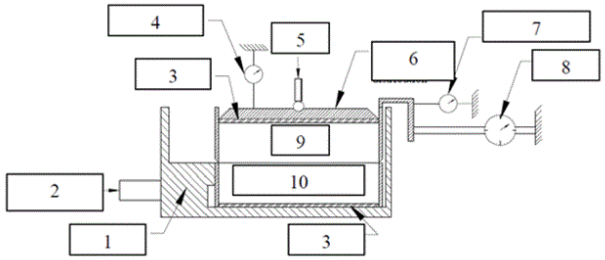
21: 2023/03127. 22: 2023/02/28. 43: 2023/05/26
51: G01N
71: DHADSE, Gaurav Devidas, RAMTEKKAR, Gangadhar Shobharam, BHATT, Govardhan Dattatreya
72: DHADSE, Gaurav Devidas, RAMTEKKAR, Gangadhar Shobharam, BHATT, Govardhan Dattatreya

54: METHOD TO DETERMINE EFFECT OF SOIL AND STRUCTURE PARAMETERS ON INTERFACE THICKNESS FOR SOIL-STRUCTURE INTERACTION ANALYSIS

00: -

The present invention relates to effect of soil and structure parameters on interface thickness for the study of soil-structure interaction analysis. Many modifications have been seen in modeling of Soil-Structure Interaction (SSI) system. In spite of such modifications, the soil-structure interface is not much explored. Interface is an important element, which decides the behavior of SSI system. In order to obtain the realistic behavior of SSI system, the use of thin layer interface is necessary considering appropriate interface thickness. According to the literature, the available interface thickness criteria seem insufficient and needs revision by considering normal stress, roughness, interface friction angle, interface adhesion, moisture content, density, δ/ϕ and Ca/C. An attempt has been made in this study to provide a systematic approach for deciding the interface thickness considering 09 interface thickness influencing parameters.This invention is

described in detail with the help of Figure 1 illustrates the effect of soil and structure parameters on interface thickness for the study of soil-structure interaction analysis.

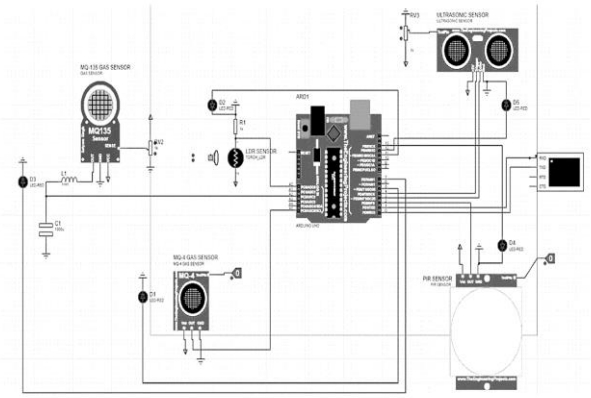


21: 2023/03128. 22: 2023/02/28. 43: 2023/05/26
51: G06F
71: VISHWAKARMA INSTITUTE OF INFORMATION TECHNOLOGY
72: MALI, Manisha Pravin, JADHAV, Siddhant Narsing, THOMBARE, Vipin Pramod, TASKAR, Rushikesh Rajendra, MADANKAR, Hrushikesh Dilip, DESHPANDE, Atharva Anilkumar, BHAND, Aarohi Somnath, DESAI, Vaishnavi Hiren, WANJALE, Kirti Hemant, SAKHARE, Sachin Rambhau

54: IOT BASED SYSTEM FOR WASTE MANAGEMENT AUTOMATION

00: -

The present invention relates to iot based waste management automation using web technology. Today big cities around the world are facing a common problem, managing the city waste effectively without making city unclean. Today's waste management systems involve a large number of employees being appointed to attend a certain number of dumpsters this is done every day periodically. This leads to a very inefficient and unclean system in which some dumpsters will be overflowing some dumpsters might not be even half full. This is caused by variation in population density in the city or some other random factor this makes it impossible to determine which part needs immediate attention. Here a waste management system is introduced in which each dumpster is embedded in a monitoring system which will notify the corresponding personal if the dumpster is full. In this system, it is also possible to separate wet and dry waste into two separate containers. This system provides an effective solution to waste management problem. A waste-bin system can be adapted into general waste-bin and it consists of the sensing units, a Bluetooth and GSM Module for data transmission, and a mobile application and web-based monitoring for interfacing and communication with the management.The smart bin is composed of sensor node mounted on it for the data collection and transmission. The sensors are divided into two path. One path is mounted with the bin cover and the other is in the bottom of the bin. The first path is level sensor to monitoring the level of waste-bin. Theother path is smart load cell sensor to calculate the weight of waste.



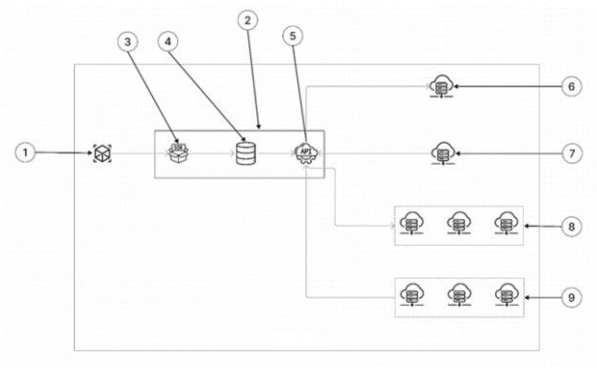
21: 2023/03129. 22: 2023/02/28. 43: 2023/05/26
51: G06F
71: VISHWAKARMA INSTITUTE OF INFORMATION TECHNOLOGY
72: KURHADE, Anirudha, MOON, Aditya, PRATHAM, Shaantanu, DUDHANE, Akash, LONARI, Gaurav, GAIKWAD, Vidya S., SABLE, Nilesh P.

54: IOT SIMULATION AND CLOUD INTEGRATION SYSTEM

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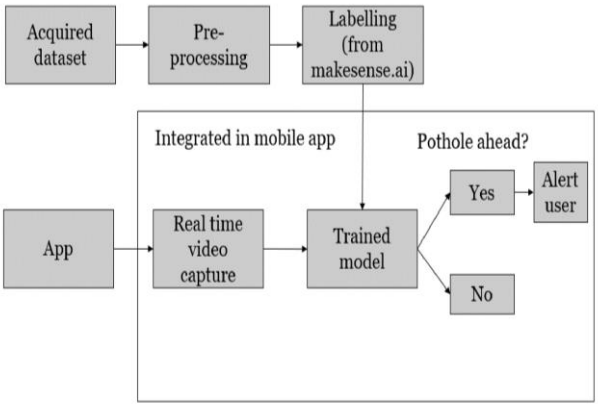
The present invention relates tostreamlining IoT simulation and cloud integration with a unified platform. This invention represented using the diagram is creation of an integration tool consisting of the SDK, Database and API. IoT (Internet of Things) devices require an integration platform that offers a simulated environment for testing and development purposes, as well as the ability to send data to cloud services for storage and analysis. The current state of the art lacks a solution that meets these requirements. This innovation presents a new integration platform that addresses this deficiency by providing a simulation environment for IoT devices and the capability to transmit data to cloud services. The platform is demonstrated to be effective in a

variety of use cases and offers significant improvements over existing solutions.This invention is described in detail with the help of Figure 1 illustrates the Schematic Diagram of invention.



21: 2023/03130. 22: 2023/02/28. 43: 2023/05/26
51: G01B
71: VISHWAKARMA INSTITUTE OF INFORMATION TECHNOLOGY
72: PANDIT, Dipti Pratik, JADHAV, Sangeeta
54: REAL TIME EMOTION PREDICTION PORTABLE DEVICE
00: -
The present invention relates toreal time emotion prediction portable device using deep learning approach, a global solution. Face is a very important biometric feature of human. Automatic recognizing and analysing of face are one of challenging tasks in object recognition. Successful performance of this task allows many applications in human computer interaction, psychology, security purposes etc. With the evolution of HCI (Human-Computer Interaction), the computer vision systems are playing an important role in our lives. Some of the prime areas of computer vision applications include gender detection, face recognition, face expression, body tracking and ethnicity identification etc. This innovative product and process flow uses a new approach for prediction of different emotions of humans. The process proposed is using a unique way to predict the human emotions using only one parameter i.e., face. This method, uses deep learning approach for training all human emotions. To add on to the new approach, using the real time camera footage as input, validation is done and the predictions can be alerted. The captured images are later stored in the system and transmitted to the cloud or SD card as per requirement for storage and further usage.

21: 2023/03131. 22: 2023/02/28. 43: 2023/05/26
51: G06N
71: VISHWAKARMA INSTITUTE OF INFORMATION TECHNOLOGY
72: MUKHEDKAR, Vedant, HARKARE, Shubham, BOCHARE, Harshdeep, KULKARNI, Ameya, CHITRE, Abhijit, DANDAWATE, Yogesh
54: POTHOLE AND PEDESTRIAN DETECTION SYSTEM COMPRISES YOLOV5 AND INTEGRATING IT WITH MOBILE APPLICATION
00: -
The present invention relates topothole and pedestrian detection using yolov5 and integrating it with mobile application. Potholes are major concern for vehicles and pedestrians and may become the cause for accidents. This project is intended to explore the potential of Deep Learning model and provide assistance while walking. We have used Deep Learning model YOLOv5 for the detection of potholes as well as pedestrians and integrated it with an app named "Watch Your Step". The experimentation is performed on an image dataset with pothole in diverse road conditions and illumination variations as well as on real-time video captured through a phone camera. YOLOv5 model has highest mean average precision (map) of 95% and is a single stage object detector which makes it more suitable for this project. The mobile application is developed using Android Studios. The purpose of the app is to assist the user from potholes and pedestrians beforehand by vibrations and speech.



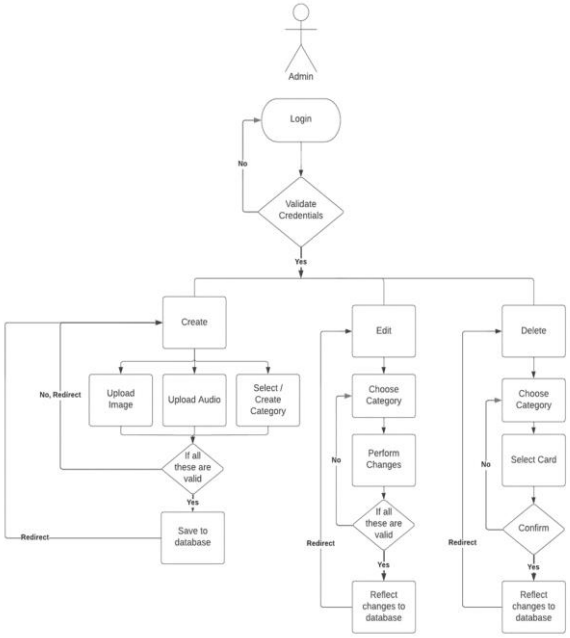
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51: G06F

71: VISHWAKARMA INSTITUTE OF INFORMATION TECHNOLOGY
72: SANCHETI, Viraj Himmat, LALWANI, Adesh Praveenkumar, MEHTA, Bhavesh Pankaj, DEDGAONKAR, Suruchi Gaurav, HABBU, Shraddha Kiran, JOSHI, Namita Ameya, SACHDEO, Rajneeshkaur

54: FLUENCY DISORDER TREATMENT SYSTEM FOR AUTISTIC CHILDREN

00: -

The present invention relates tofluency disorder treatment application for autistic children. Autism is a frequent comorbidity in children in which they may avoid eye contact, repeat action like turning around themselves and use the parent's hand instead of pointing to indicate an object they want. There is no as such proper solution to this as its symptoms are different in different children. Research shows that early diagnosis and interventions, such as during preschool or before, are more likely to have major positive effects on symptoms and later skills. People who have ASD have the best chance of using all of their abilities and skills if they receive appropriate therapies and interventions. We are presenting one such recommended solution in the form of a mobile application which includes development of teaching and learning aid using articulatory phonetics in regional language. To achieve the objective, we will be making a mobile phone application which will be user-friendly and will be effective in achieving the desired outcome. The application will have a good user-interface which will make it easy for the parent and the child to use it. It will consist of an admin part where the admin can add the category to the existing category of letters in Marathi language. Likewise, the admin can delete or modify the same. Similarly, the admin can add, delete, update the words and audio associated with a specific category of letters. The user will be able to choose a category of words and then clicking on the words will produce the audio pertaining to that word. The mobile application is the need of the hour.

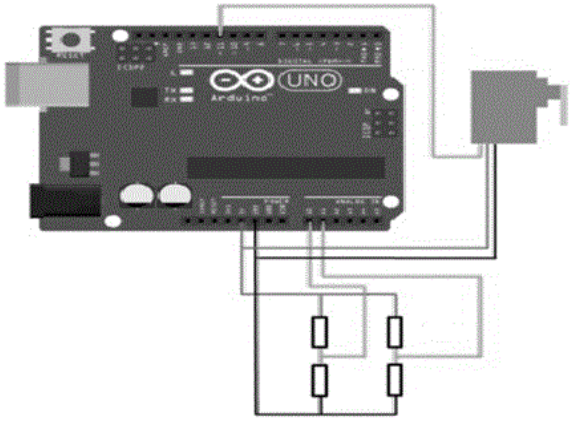


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72: MARATHE, Abha, KULKARNI, Mukund, PAWAR, Jay, JOSHI, Atharva

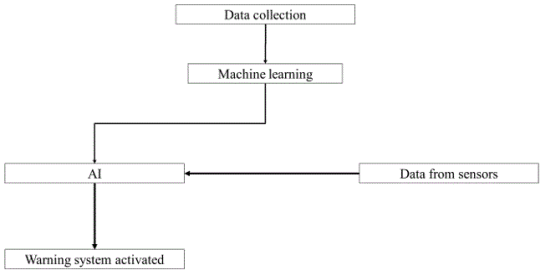
54: SMART SYSTEM FOR ENERGY GENERATION AND CONSUMPTION

00: -

The present invention relates to smart energy system for generation and consumption. Nowadays solar panels and the use of clean energy is getting adapted by a large number of people because of its vast advantages. The solar panels offer us many advantages such as good quality of energy as well as it is cost effective. The pollution emissions into the air is also reduced and helps us to rely less on electricity grid or natural gas for our daily needs as primary resources. The smart street lighting system can also be made a much energy efficient as well as cost efficient.



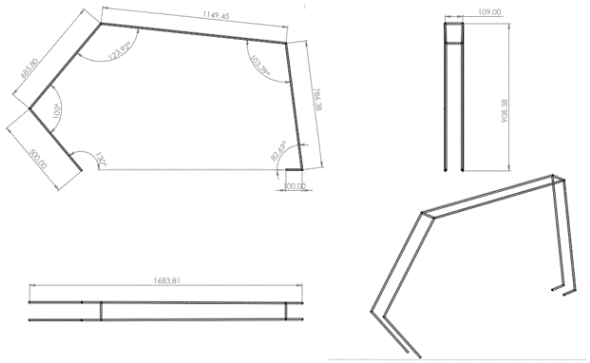
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51: G06Q
71: DAVULURI, Sandeep Kumar, ORTIZ, Geovanny Genaro Reivan, MEHRAJ, Haider, ANA, Farkhanda, MALI, Nilesh, RANGDALE, Sonali P.
72: DAVULURI, Sandeep Kumar, ORTIZ, Geovanny Genaro Reivan, MEHRAJ, Haider, ANA, Farkhanda, MALI, Nilesh, RANGDALE, Sonali P.
54: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING BASED SYSTEM FOR SAFETY MANAGEMENT ASPECTS
00: -
The present invention relates to provide an artificial intelligence and machine learning based system for safety management aspects. The various sensors like as sound detection sensors, light detection sensors, temperature detection sensors, flammable gas detection sensors, overload detection sensors, humidity detection sensors, air quality detection sensors etc. are installed at working premises or site. For machine learning deferent types of data collected from chemical laboratories, past accidental incidents, research institutes etc. Collected data used for train machine and create machine learning algorithm based on ta collection and requirement of safety features. Smart warning alarms are used for warning when safety standards are breeched. IoT networks connects the various devices and machines and formed an interconnected network.



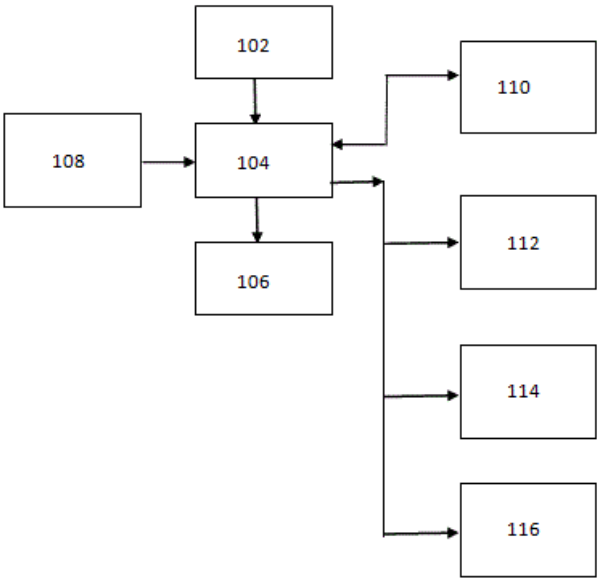
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51: A61G
71: VISHWAKARMA INSTITUTE OF TECHNOLOGY
72: PAWAR, Shital, JALNEKAR, Rajesh, UTTARWAR, Ruturaj, BAKAL, Sakshi
54: WEARABLE SMART ASSISTIVE DEVICE FOR VISUALLY IMPAIRED PEOPLE
00: -
The present invention relates to a wearable smart assistive technology for visually impaired people. Propose invention is a smart assistive technology named Wearable technology, for aiding the visually impaired. Wearable technology is like a Regular Bag pack for the blind, which may be used with walking cane as a smart companion. This Innovative Product for Blinds or Partially Blinds to help them Navigate. main outcomes of the invention is that Each and every blind will now be able to explore the outer surroundings.

21: 2023/03136. 22: 2023/02/28. 43: 2023/05/26
51: B62J
71: VISHWAKARMA INSTITUTE OF INFORMATION TECHNOLOGY
72: HUJARE, Pravin P., PATIL, Vaishali A., RATHOD, Praveen Pomu, NANAVATY, Tejas, VAIDYA, Aishwarya, CHAUDHARI, Atharva, DAMBAL, Aditya
54: FOLDABLE RAIN COVER WITH SOLAR PANEL FOR TWO WHEELERS
00: -
The present invention relates toa foldable rain cover with solar panel for two wheelers and all weather-adjustable visor. Our design tries to improve this design by providing mounting positions at both ends, front and rear, depending on the model of the vehicle. It has dual adjustable sun visor, tinted for sunny days and transparent for other/night riding. The sun visor is made of water repellent material, which repels any water in the monsoon season,

hence clearer vision for the driver. It also comes with a solar panel, which can be used to store energy in battery and can be utilized later (highly beneficial for electric vehicles).This invention is described in detail with the help of Figure 1 illustrates the Schematic Diagram of invention.

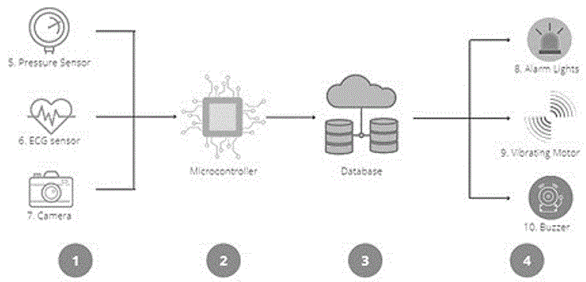


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51: G06T
71: MOHIUDDIN, Momin Zaki, SHAIKH, Nazneen Akhter, GAWALI, Bharti, SHAIKH, Yusuf Hanif, FATEMA, Shaikh Ifrah, RASUL, Tamboli Arif Mohd
72: MOHIUDDIN, Momin Zaki, SHAIKH, Nazneen Akhter, GAWALI, Bharti, SHAIKH, Yusuf Hanif, FATEMA, Shaikh Ifrah, RASUL, Tamboli Arif Mohd
54: AN IMAGING SYSTEM FOR SIGNATURE RECOGNITION
00: -
The present invention discloses a device capable of acquiring images for signature recognition purpose that can be used in applications where recognition of signature of an individual is of interest. This imaging system can acquire digital images from paper or similar substrate using optical camera and store it. There are built in features to perform some processing of the image to bring it in a format consistent with the image recognition. The camera functions under instructions of a microprocessors that is a part of a circuit performing as an individual small computer with limited features. It can connect to a LED or TFT screen, USB keyboard, USB mouse etc to provide ease of programming. The software can be modified to accommodate different size of image or color correction and saving the images in desired format for further use. The images saved can be retrieved at any later time to perform recognition under the control of the program loaded if any. These images can be exported to computer using appropriate approach for further use and analysis. As the images acquired can be exported these images be used in any other system for similar or different application.



21: 2023/03138. 22: 2023/02/28. 43: 2023/05/26
51: G06F
71: DR.VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, KOSHTI, Chidanand Dhondappa, JOSHI, Pratyancha Ritesh, WAVARE, Sarthak Suhas, JAIN, Ronit Manish, GUJARATHI, Gauri Dhiraj, SAWANT, Srushti Santosh
72: KOSHTI, Chidanand Dhondappa, JOSHI, Pratyancha Ritesh, WAVARE, Sarthak Suhas, JAIN, Ronit Manish, GUJARATHI, Gauri Dhiraj, SAWANT, Srushti Santosh
54: DROWSY DRIVER SMART DETECTION SYSTEM FOR HEAVY VEHICLES
00: -
The drowsy driver smart detection system for heavy vehicles is a system used to detect whether the driver is drowsy or not and giving appropriate alerts to the driver when necessary. This system uses a combination of three input sensor parameters that focus on taking inputs from the various signs of drowsiness that the driver might show. These parameters include the behavioral (the tendency of a person to blink slowly and yawn while drowsy), vehicular (the driver's grip on the steering wheel tends to loosen in a sleepy state) and biological (the ECG lowers to a resting phase). This system creates a large dataset containing values taken from these parameters and then decides the average values

according to the driver's physical and behavioral patterns. Through these values, it is possible to determine whether the driver is drowsy or not with a good level of accuracy. Once the drowsiness is detected, the system sends out various alerts based on the situation and the detecting parameter. These alerts include blinking alarm lights, buzzers and vibrating motors placed in strategic locations so as to alert the driver but not startle the driver or make the driver lose their sight off the road. Following invention is described in detail with the help of Figure 1.

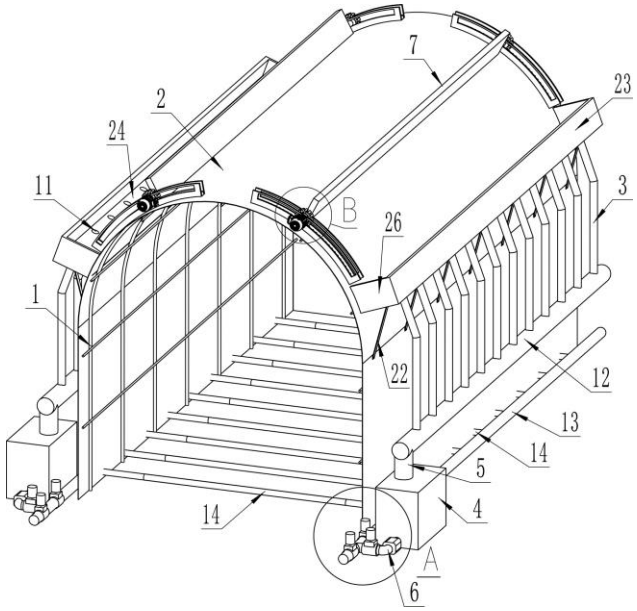


21: 2023/03139. 22: 2023/02/28. 43: 2023/05/26
51: A01G
71: INNER MONGOLIA BEE TECHNOLOGY CO., LTD
72: Wen fuqiang

54: INTELLIGENT AGRICULTURAL WATER-SAVING EQUIPMENT BASED ON 5G

00: -

The invention relates to intelligent agricultural water-saving equipment based on 5G, which comprises a shed frame and a shed film, wherein the shed frame comprises a soil moisture sensor and two sets of water-saving devices symmetrically arranged on the shed film; Ach set of water-saving device comprises a collecting device, a heating device, a plurality of guide pipes, a filter box, an irrigation device, a recovery device and a control system; The heat device is arranged inside that collect device, the lower part of the heating device is communicated with the upper end of a plurality of guide pipes, the lower ends of the guide pipes are connected with the water inlet pipe of the filter box, and the water outlet pipe of the filter box is communicated with the irrigation device and the recovery device; The control system is electrically connected with the soil moisture sensor, the heating device, the irrigation device and the recovery device and comprises a 5G communication module. In that invention, the filt box eliminates pollutant in rain water or snow water and does not interfere with the normal growth of crop; A heating device is arranged to recycle the snow water, thereby saving more water and having stronger applicability.

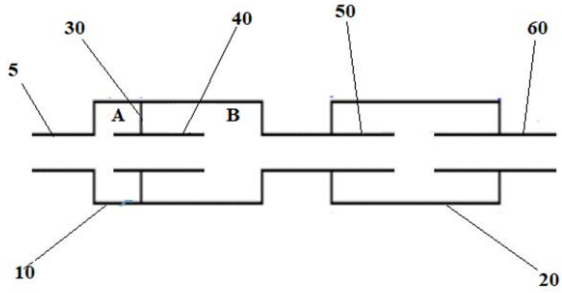


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51: H04B
71: DR.VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, KULKARNI, Mahesh Vasantrao
72: KULKARNI, Mahesh Vasantrao

54: DOUBLE EXPANSION CHAMBER REACTIVE MUFFLER

00: -

Disclosed is a double expansion chamber reactive muffler (100) for maximizing the transmission loss in a specific frequency range within the full operational range for the internal combustion engine. The muffler (100) comprises two chambers (10, 20) having identical length and diameter and connected with a connecting tube (50) extended into the second chamber (20). A baffle (30) with a choke tube (40) is incorporated in a first chamber (10) while an exhaust gas outlet tube (60) extends inside the second chamber (20). The distance (M) of the baffle (40), the lengths (L1, L2) of the two parts of the choke tube (30) on either side of the baffle (40) and the lengths (L3, L4) of the extended inlet and outlet tubes of the second chamber (20) are optimized in a way to give maximum transmission loss in the specific frequency range.

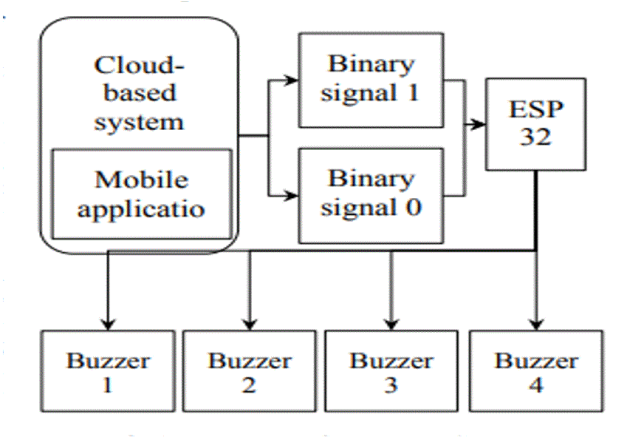


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51: G06F
71: VISHWAKARMA INSTITUTE OF TECHNOLOGY
72: BARBADEKAR, Ashwini, BHATLAWANDE, Shripad, PATIL, Abhishek, MURKYA, Tejus, SATPUTE, Harsh

54: CLOUD DRIVEN IOT BASED SYSTEM FOR PREVENTION OF LOCUST ATTACK

00: -

The present invention relates to cloud driven IOT based system for prevention of locust attack. Every year around 50,000 Hectare (Ha) of crop across India is destroyed by locusts, a large number indeed. In India, on average a farmer can produce 5 lakhs revenue from one Hector of land. and around 2.5 million of revenue is destroyed due to locust attack. Locusts attack on field on a large scale. Cotton and Kharif crops are the main prey of the locust. Pesticide spraying and playing loud music on big woofers, Disco Jockeys are the current locust preventive techniques being implemented in farms. These techniques had not resulted in fair results or are human labor consuming methods. This paper presents a cloud based Locust Attack Preventor System (LAPS) which would help farmers save their land from locusts at their time of attack. This system is controlled through an android application of which the signals are communicated with ESP32 via cloud. This system is able to generate 10KHz of frequency currently which is enough for locusts to make them cause less harm.

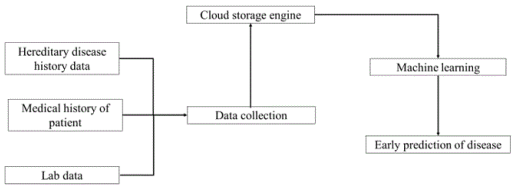


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51: G06Q
71: MARTIN, R. John, DAVULURI, Sandeep Kumar, ARYA, Adarsh Kumar, SAYYAD, Shabnam Farook, JASMINDEBORA, S., KUMAR, Ashok
72: MARTIN, R. John, DAVULURI, Sandeep Kumar, ARYA, Adarsh Kumar, SAYYAD, Shabnam Farook, JASMINDEBORA, S., KUMAR, Ashok

54: MACHINE LEARNING BASED SYSTEM FOR EARLY DISEASE PREDICTION USING MEDICAL RECORDS

00: -

The present invention relates to provide a machine learning based system for early disease prediction using medical records. New edge technologies are helpful in medical record keeping, prediction of diseases, forecasting of ailment. Machine learning algorithm is used to data filtration and data classification automatically according to user define functions. Therefore, a machine learning based system for early disease prediction using medical records is demand of hour. The system is comprising of data collection unit, data filtration and classification unit, cloud storage engine, IoT network, smart UI. The data collection unit is collected data from various sources like as medical history patient from concern hospitals, laboratories, pedigree analysis data. Data filtration and data classification unit is classifying data according to various parameters like as gender, age, BMR, noncommunicable diseases history, vaccination history etc.

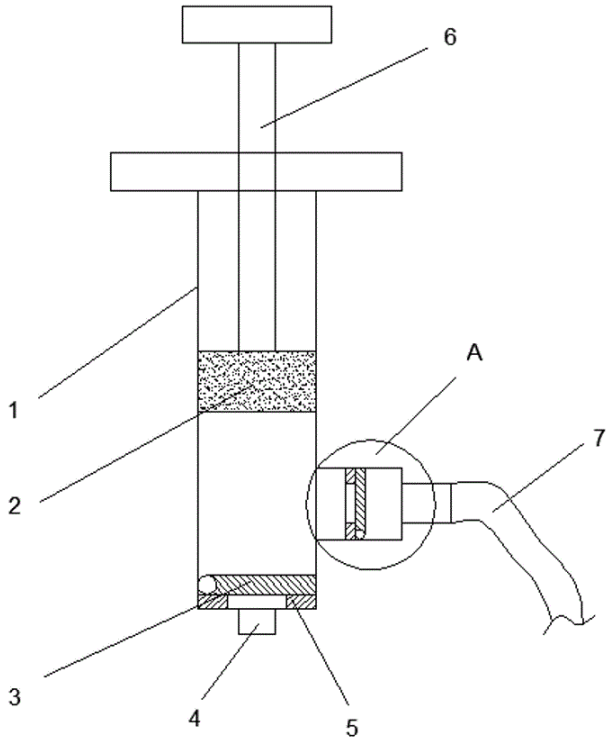


21: 2023/03143. 22: 2023/02/28. 43: 2023/05/26
51: A61B
71: WUXI SECOND PEOPLE'S HOSPITAL
72: JIANG, Yu

54: BONE MARROW LIQUID ASPIRATING DEVICE FOR ORTHOPEDICS

00: -

The present invention discloses a bone marrow liquid aspirating device for orthopedics, comprising an aspirating cylinder and a needle penetration device, a piston is provided inside the aspirating cylinder, a piston rod is connected to upper end of the piston, a liquid inlet ring is provided inside bottom end of the aspirating cylinder, a liquid inlet plate is connected to upper end of the liquid inlet ring, a liquid entrance is connected to bottom end of the aspirating cylinder, a liquid outlet cylinder is connected to right end of the aspirating cylinder, a liquid outlet ring is provided inside the liquid outlet cylinder, a liquid outlet plate is connected to right end of the liquid outlet ring, a fixed cylinder is provided at upper end of the needle penetration device, a liquid inlet cavity is provided in middle of bottom end of the fixed cylinder, a guide sheath is connected to middle of the needle penetration device, a puncture needle is connected to middle of the guide sheath, a rotating wheel is connected to middle of upper end of the puncture needle, a driven wheel is connected to right end of the rotating wheel, an active wheel is connected to coaxial position of upper end of the driven wheel, a drive wheel is connected to right end of the active wheel. The present invention achieves stable access of the puncture needle into bone marrow cavity, which guarantees quality of the aspirated bone marrow fluid, avoids generation of a phenomenon of the mixed between peripheral blood and bone marrow fluid, and has strong practicability.

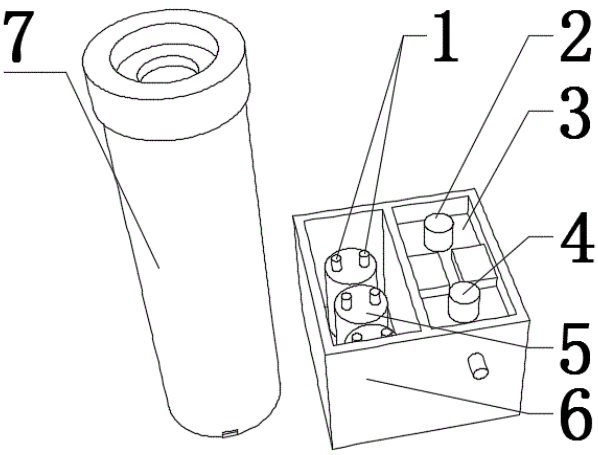


21: 2023/03144. 22: 2023/02/28. 43: 2023/05/26
51: G01N
71: Xuzhou College of Industrial Technology
72: Tang Xuehong, Xiao Xianju

54: AMPLING DEVICE FOR CHEMICAL ANALYSIS

00: -

The invention provides a sampling device for chemical analysis, and relates to the technical field of chemical engineering. The sampling device for chemical analysis comprises a double-chamber box body, wherein sampling bottles which are uniformly distributed are arranged in a left compartment of the double-chamber box body; a cleaning solution storage box is fixedly connected in a right compartment of the dual-chamber box body; a sampling pipe is arranged on the left side of the dual-chamber box; and the sampling pipe comprises a sleeve. The cleaning liquid in the cleaning liquid storage tank is pumped out by a micro liquid pumping pump and is conveyed to each pipe through a branch pipe, then the cleaning liquid is injected into a cavity between the sleeve and the inner pipe, and chemical raw material attachments on the outer wall of the inner pipe and the inner wall of the pipe are dissolved and washed away by shaking the sleeve.



21: 2023/03192. 22: 2023/02/28. 43: 2023/05/29
51: A23B
71: CHINESE ACADEMY OF FORESTRY, Research Institute of Non-timber Forestry, Chinese Academy of Forestry
72: DIAO, Songfeng, TANG, Xiaoqian, ZHAO, Zijian, DOU, Zhipeng, HUANG, Lin, FAN, Xiongfei, ZHANG, Jiajia, ZHANG, Weiyin, JIANG, Jianting, ZHU, Gaopu

54: FLOWER AND FRUIT PRESERVATION AGENT FOR FRUIT TREES, USE METHOD AND APPLICATION THEREOF

00: -

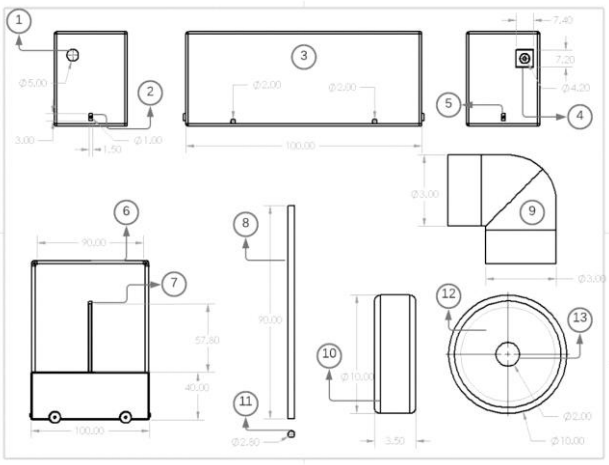
The present invention belongs to the technical field of plant growth regulators, and provides a flower and fruit preservation agent for fruit trees and a use method and an application thereof. The said flower and fruit preservation agent comprises a flower preservation agent and a fruit preservation agent that are packaged separately. The flower preservation agent comprises the following components: Spermidine, 2,4-D, brassinolide, Indole-3-butyric acid potassium salt, gibberellic acid potassium salt, compound sodium nitrophenolate and calcium-magnesium-boron-zinc fertilizer; The said fruit preservation agent comprises the following components: Spermidine, 2,4-D, brassinolide, Indole-3-butyric acid potassium salt, compound sodium nitrophenolate, potassium dihydrogen phosphate, urea and calcium-magnesium-boron-zinc fertilizer. Flower and fruit abscission of fruit trees can be reduced and the fruit setting rate can be improved by using the flower and fruit preservation agent for fruit trees provided in the present invention. In addition, the obtained fruit quality is also improved, and the present invention has important significance in improving fruit tree yield and economic benefits.

21: 2023/03193. 22: 2023/02/28. 43: 2023/05/29
51: A61L
71: DR.VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, JADHAV, Savitri Nathrao, JADHAV, Nathrao B., CHHATBAR, Hrishank, DESHPANDE, Atharva
72: JADHAV, Savitri Nathrao, JADHAV, Nathrao B., CHHATBAR, Hrishank, DESHPANDE, Atharva

54: PORTABLE UV-C LAMP FOR ULTRAVIOLET DISINFECTION

00: -

The present invention relates to the portable UV-C lamp assembly for ultraviolet disinfection.The UV sanitizer system.Recently, a type of Ultra-Violet (UV) could aid hospitals in ongoing battle to keep microorganisms from lingering in patient rooms and causing new infections. That particular wavelength range which can eradicate microorganisms is in the range of 200-280 nm, also known as C band of UV light (UV-C). This wavelength range is effective in inhibiting bacteria, viruses, and fungi. In addition, it can be used to sterilize in air, in water, on the surface, and very effective when using disinfection. The UV sanitizer system comprises of arrangement of UV-C lamps are evolving. This technique, especially in situations where the number of available healthcare workers is limited, such as during a pandemic or large-scale disaster is beneficial. The UV sanitizer system comprises of arrangement of UV lamps such that maximum area can be covered and along with the added advantage of portability.

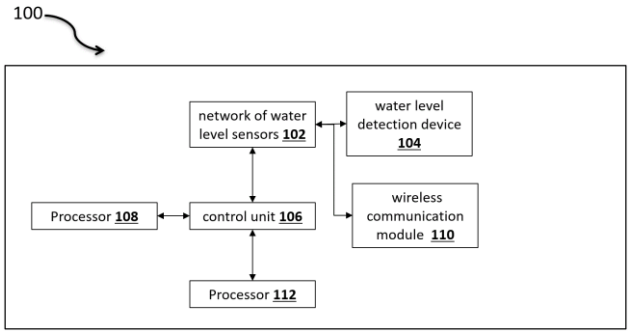


21: 2023/03194. 22: 2023/02/28. 43: 2023/05/29
51: E04H
71: Wajahat Annayat, Dr. Sandeep Samantaray
72: Wajahat Annayat, Dr. Sandeep Samantaray

54: A SYSTEM AND METHOD FOR MITIGATING FLOOD DAMAGE

00: -

The present invention generally relates to a system for mitigating flood damage comprises a network of water level sensors, each sensor comprising a water level detection device and a wireless communication module; a control unit, comprising a processor and a wireless communication module; and a response mechanism, comprising a pump or barrier and a power source, wherein the water level sensors communicate wirelessly with the control unit to transmit water level data, and the control unit processes the water level data and activates the response mechanism to prevent or minimize water damage.

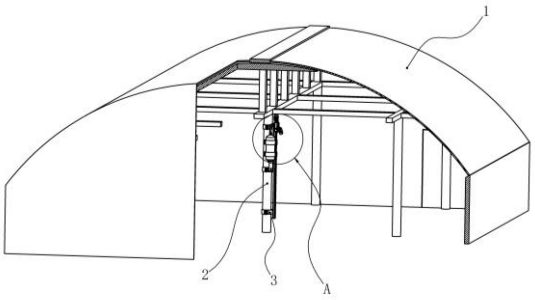


21: 2023/03195. 22: 2023/02/28. 43: 2023/05/29
51: A01G
71: INNER MONGOLIA BEE TECHNOLOGY CO., LTD
72: Wen fuqiang

54: INTELLIGENT AGRICULTURAL GREENHOUSE BASED ON 5G

00: -

A 5G-based smart agricultural greenhouse comprises a greenhouse body, wherein a support frame is arranged in the greenhouse body, and a plurality of mounting frames are arranged on the support frame; a lifting device is vertically arranged on the outer side of the plurality of mounting frames; a monitoring host is arranged on the outer side of the lifting device; and a blowing device is arranged between two adjacent mounting frames on the upper side. According to the invention, the height of the monitoring host is adjusted through the mounting frame and the lifting device, so that the temperature and humidity conditions at different heights can be accurately measured; through the signal antenna, information such as temperature, humidity, images and the like are transmitted and interacted through 5G network signals, so that a user can know the temperature and humidity conditions in the greenhouse in real time after leaving the greenhouse; By arranging the blowing device, when condensed water appears on the temperature probe, the humidity probe or the monitoring lens, the blowing device is used for blowing off the condensed water to prevent the existence of the condensed water from influencing the measurement accuracy of the temperature probe and the humidity probe and the picture definition shot by the monitoring lens.

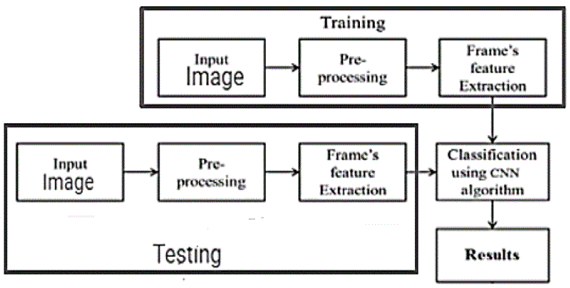


21: 2023/03196. 22: 2023/02/28. 43: 2023/05/29
51: G01D
71: VISHWAKARMA INSTITUTE OF TECHNOLOGY
72: MHETRE, Manisha, SONDKAR, Shilpa, NISAL, Amit Ravindra, TRIMUKHE, Dipmala Bhagwat, GHULE, Sidhhant Sanjay, GAJARE, Mansi Mhalsakant, JADHAV, Dipraj Chandrakant

54: NON-INVASIVE HAEMOGLOBIN LEVEL SCREENING AND INDICATION SYSTEM

00: -

The present invention relates to a non-invasive haemoglobin level screening and indication system. Haemoglobin (Hb), is formed by Haem which is an iron and globin chain which is a protein. Formation of Haemoglobin requires iron as well as other vitamins and trace elements. Haemoglobin is formed in erythroid precursors in bone marrow. A person is said to be anemic when Hb level falls below the defined normal level for the age and sex. Haemoglobin is required for the transport of oxygen to various tissues, its deficiency leads to death in severe cases. Therefore, early diagnosis of anemia is important for the proper treatment and well-being of a person. Traditional invasive approach to measure the levels of hemoglobin by inserting a needle into a vein in the arm or pricking finger is painful, time consuming and costly. In this proposed method hemoglobin level can be measured by using a non-invasive approach within a few seconds with the help of convolutional neural network (CNN). The major concept of this study is to screen Haemoglobin (Hb) levels within a few seconds. For the development of this application clinical blood samples are considered with known value of hemoglobin concentration. The images are taken with a smartphone camera of constant resolution and lighting. Applying extracted features, as input to the convolutional neural network (CNN) hemoglobin (Hb) concentration is predicted. A cloud-based application is designed using open-source software.

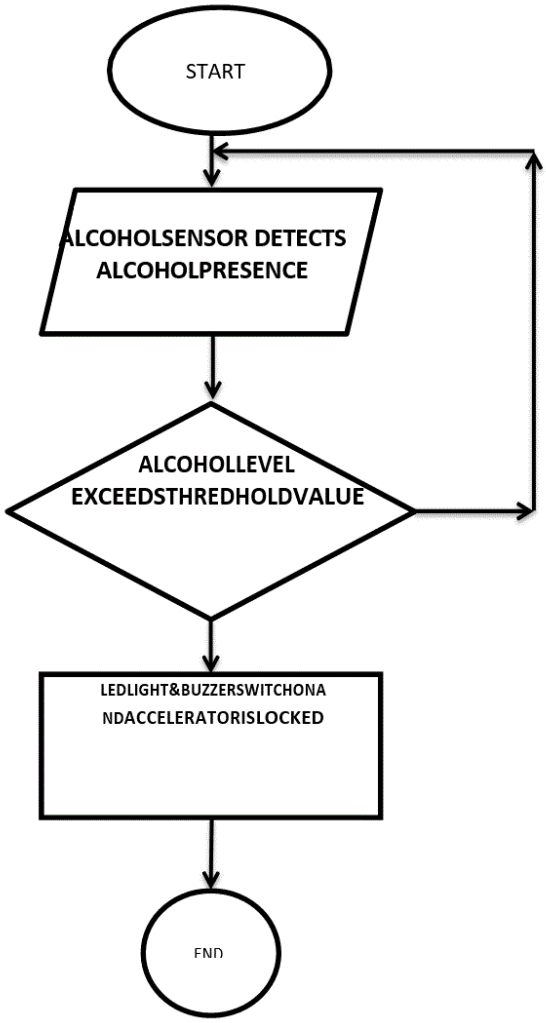


21: 2023/03197. 22: 2023/02/28. 43: 2023/05/29
51: G06F
71: DR.VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, KULKARNI, Vaibhav Vijay, BORIKAR, Ganesh P.
72: KULKARNI, Vaibhav Vijay, BORIKAR, Ganesh P.

54: OVERLOADING CONTROL SYSTEM FOR TWO WHEELERS

00: -

The present invention relates tooverloading control system in two wheelers.In the field of automotive if a vehicle is designed for a particular per person riding capacity considering the aspects of safety, design and power exceeding those limits puts the driver and pillion riders at considerable risk. With a step ahead in this paper we are trying to detect and limit the number of persons sitting on two wheelers. As per the traffic rules in India the maximum number of persons cannot exceed two, apart from the driver only one pillion rider can be carried in behind while driving. Despite of the ban, driver carries more than a single person. Two Pillion riding is also a root of a lot of accidents happening in two wheelers. To make the detection process effective, robust and cost effective a new sensor design was to be put forward. This Invention is applicable to all over the world those who are using two wheeler bikes and over loaded driving which is not authenticate by any government and also not safe for the riders and their passengers as shown in Picture below. (Image 1). Many Peoples driving the bike very dangerously and due to overload of bike may not be in stable condition and they do drive without helmets also. It has many chances to meet with major accidents and serious injury. So to avoid such Accidents and major injury. This over loaded automatic bike locking system is very useful to save the lives.While concluding this innovation work, the model develops by us fulfill the required objectives. After some modifications in this system develop automation unit for vehicle safety that can easily be adopted in today's automobile field.

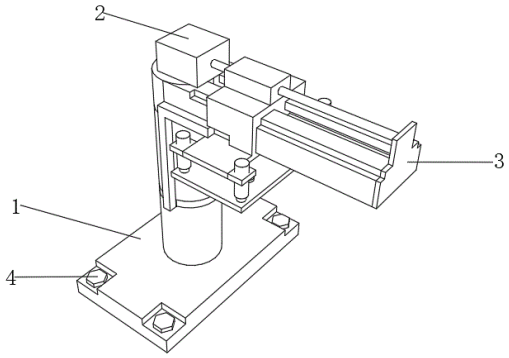


21: 2023/03198. 22: 2023/02/28. 43: 2023/05/29
51: B23Q
71: Jiangsu College Of Safety Technology
72: Fu Caijian, Zhang Shuwei, Jin Yin, Xu Dong, Wang Bing, Wang Lin

54: NUMERICAL-CONTROL MACHINE TOOL PLATE FEED EQUIPMENT

00: -

The invention discloses a numerical control machine tool plate feeding device, which comprises a base, wherein the central position of the top of the base is fixedly connected with a fixed column, the lower position of the outer diameter center of the fixed column penetrates through and is provided with a rotating groove, the inner diameter of the rotating groove is rotatably connected with a rotating ring, and the top of the fixed column is rotatably connected with a rotating block. A sliding beam is fixedly connecte at that central position of the top of the front end of the rotating block, reinforce ribs are fixedly connected at the central positions of the left side and the right side of the rotate ring, a reversing motor is fixedly connected at the central position of the top of the rotating block, and a ball screw penetrates through and is fixedly connected with the output end of the reversing motor. According to the invention, the occupied space of the feeding equipment is reduced, the base is only required to be fixed at a specified position by using the fixing bolts, and the feeding work of a numerical control machine tool can be completed without operating a lifting platform requiring assistance, so that the occupied area is effectively reduced without digging a hole on the ground.



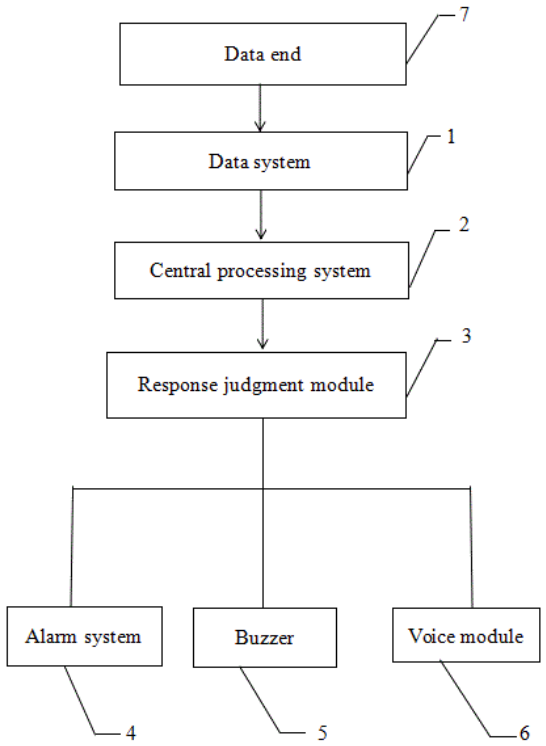
21: 2023/03199. 22: 2023/02/28. 43: 2023/05/29
51: G08B
71: Xinyu university
72: Li Naigen, Zhang Xianglin, Liu Hesheng

54: SMART HOME FIRE DETECTION SYSTEM

00: -

The present invention discloses a smart home fire detection system, including a processing host, the internal configuration of the processing host is a data system, a central processing system, a response judgment module, an alarm system, a buzzer, a voice module and a data end, a communication connection between the data system and the data end, and the data end collects the data of the smart home device in the house in real time, the data end transmits the collected data to the data system, and the fire prediction module predicts the state of the fire point detected in the fire point positioning module, at the same time, the fire prediction module divides the fire point into extinguishable and non-extinguished, through the fire prediction module

determines the real-time status of the fire point, and the path formulation module locates the location of the people in the house in the image, and formulates two schemes of fire extinguishing path and escape path according to the location of the personnel, so as to realize the emergency treatment of the fire in the house and reduce the loss caused by the fire.

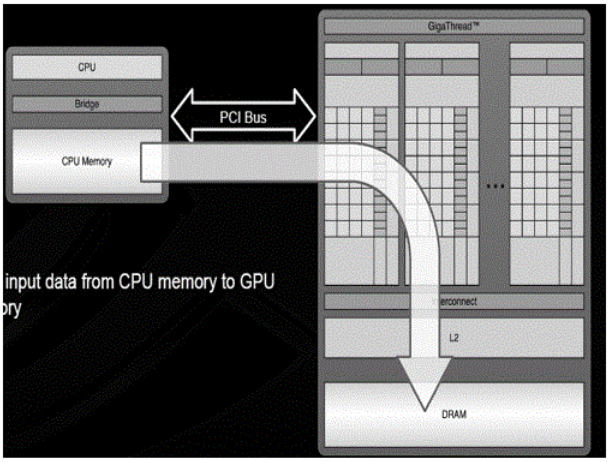


21: 2023/03200. 22: 2023/02/28. 43: 2023/05/29
51: G06F
71: VISHWAKARMA INSTITUTE OF TECHNOLOGY
72: SHINDE, Sandip, LADE, Sangita, PAWAR, Prashansa, YADAV, Kshitij

54: PARALLEL COMPUTATION SYSTEM FOR SORTING ALGORITHMS

00: -

The present invention relates to parallel computation system for sorting algorithms. Computing is evolving from "central processing" on the CPU to "co-processing" on the CPU and GPU. To enable this new computing paradigm, the CUDA parallel computing architecture has been invented. In the consumer market, nearly every major consumer video application has been, or will soon be, accelerated by CUDA.CUDA has been enthusiastically received in the area of scientific research, in the financial market, etc.GPU computing is going mainstream with the recent launches of Microsoft Windows 7 and Apple Snow Leopard. In these new operating systems, the GPU will not only be the graphics processor, but also a general-purpose parallel processor accessible to any application. In this project, we will be handling millions of data. The major aim is to sort this data in an efficient and time feasible manner. We are implementing merge sort and quick sort to decrease the time complexity using parallel computation.



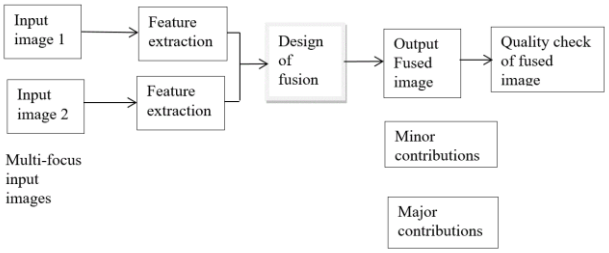
21: 2023/03201. 22: 2023/02/28. 43: 2023/05/29
51: G06F
71: DR.VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, KHAPARDE, Arti, DESHMUKH, Vaidehi
72: KHAPARDE, Arti, DESHMUKH, Vaidehi

54: SYSTEM FOR OPTIMIZATION OF MULTI FOCUS IMAGES USING AI BASED FUSION TECHNIQUES

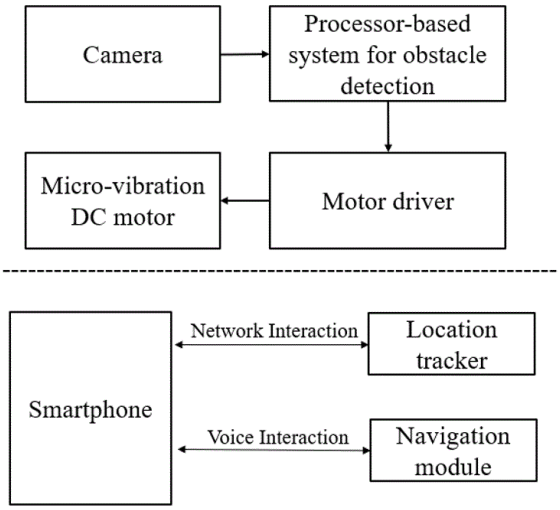
00: -

The present invention relates to a system for optimization of multi-focus images using ai based fusion techniques.Multi-focus image fusion aims at fusion of two images which display the same scene but with different objects in focus. The fusion gives a single image which shows all the objects clearly. Such images are useful in applications involving computer vision and human perception.The main reason behind the generation of multi-focus images is the limited focal length of a lens in the camera; due to which depth of an image is insufficient to capture all objects in a scene clearly resulting in some objects blurry. There are various fusion

algorithms which are used to fuse multi-focus images. The objective of this research work is to modify fusion rule in order to get a fused image of good quality. This research work proposes spatial-domain edge-based superimposition fusion algorithms in which weighted fusion rule plays an important role. The peculiarity of algorithms is to extract features from the input image pair and to use these features to derive weights which are used in the weighted fusion rule to obtain a fused image. The algorithms are optimized using genetic algorithm which uses modified MSE as a fitness function. MSE is modified to incorporate edge features into it so that edges can be transferred to the fused image from the input image pair. The fused image is evaluated using objective evaluation parameters. These results are validated using DWT-based fusion method and found that fused image bears good amount of entropy and the mutual information. Based on values of the evaluation parameters, performance of proposed algorithms is compared. As stated by theresults, edge-superimposition algorithm proves to be the fastest fusion algorithm of all proposed algorithms and also produces a good quality fused image.

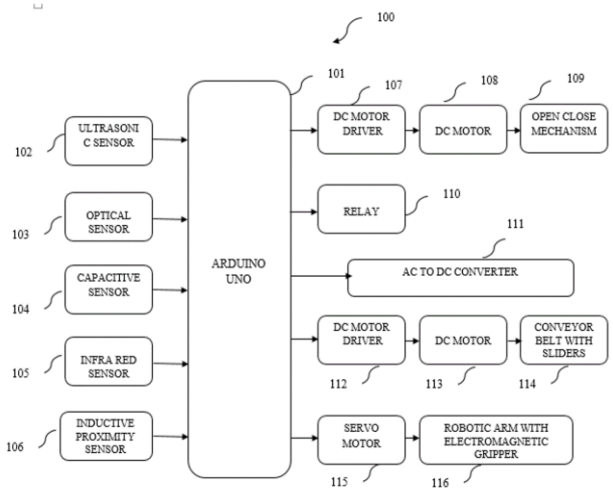


21: 2023/03202. 22: 2023/02/28. 43: 2023/05/29
51: G05F
71: VISHWAKARMA INSTITUTE OF TECHNOLOGY
72: JALNEKAR, Rajesh, BHATLAWANDE, Shripad, SHILASKAR, Swati, MADAKE, Jyoti, GAIKWAD, Aatreya, ANANTWAR, Vedant, ANEY, Yash, LASHKARE, Aditya
54: LOCATION TRACKING AND GUIDANCE SYSTEM FOR BLIND
00: -
The present invention relates to Location Tracking and Guidance System for Blind.The system consists of an object detection module and a smartphone application for tracking and navigation of the VI. The object detection system is a hand-held device that would detect and provide tactile feedback of the objects ahead of the users. The module uses Random Forest classifier for detection of objects. The smartphone application will constantly track the location of the VI user and send it to the caretaker. It will navigate the VI individual to his destination using the auditory commands. The user will also be able make and take the phone calls, send messages.Several experiments were performed on object detection module in controlled environment which resulted the accuracy of 87.66%. The application in every environment performed well with accuracy of 97-99%.

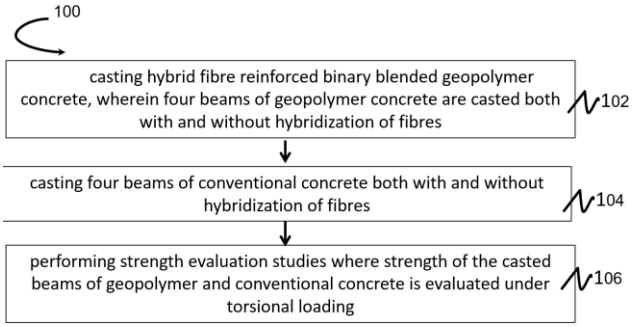


21: 2023/03203. 22: 2023/02/28. 43: 2023/05/29
51: B09B
71: DR.VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, BHINGARKAR, Sukhada Prasad, SAVYANAVAR, Amit Sadanand, SUTAR, Shiv Havgirao, ANNADATE, Mrunal Ninad
72: BHINGARKAR, Sukhada Prasad, SAVYANAVAR, Amit Sadanand, SUTAR, Shiv Havgirao, ANNADATE, Mrunal Ninad
54: AUTOMATED WASTE SEGREGATION MACHINE
00: -
It is discovered that a large amount of waste generated in the surroundings are not properly managed and the workers involved in the waste management practices lack the awareness of safe practices. Only 45% of the workers are aware and knowledgeable about proper waste segregation. Approximately 40% of the workers were injured

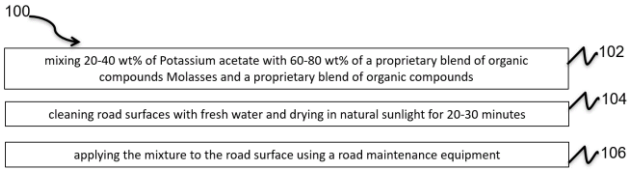
during the waste handling. Thus, there is a need of automated system that detects garbage and classifies it into different waste categories without human intervention. We propose a novel approach for automated waste segregation using deep learning, robotics and state-of-the art sensors.



21: 2023/03204. 22: 2023/02/28. 43: 2023/05/29
51: C04B
71: ADDEPALLI MALLINADH KASHYAP, Dr. T. Chandrasekhar Rao, Dr. N. V. Ramana Rao
72: ADDEPALLI MALLINADH KASHYAP, Dr. T. Chandrasekhar Rao, Dr. N. V. Ramana Rao
54: A METHOD TO ASSESS THE TORSIONAL RESPONSE AGAINST THE STRENGTH AND BEHAVIOUR OF GEOPOLYMER CONCRETE ELEMENTS
00: -
The present disclosure is to assess the torsional response against the strength and behavior of geopolymer concrete. More particularly, the present disclosure relates to a methodology to assess the torsional response of hybrid fibre reinforced binary blended geopolymer concrete, wherein torsion is evaluated in a comparative study of geopolymer and conventional concrete. The disclosure offers an analysis of the geopolymer concrete created by blending GGBS with fly ash. The objective is to understand the mechanical characteristics of geopolymer concrete and the torsional response of the geopolymer concrete beams. Under torsional loading, the beams are assessed. The results show that hybrid fibre reinforced geopolymer concrete (GPC) beams have similar torsional resistance to those of conventional hybrid fiber cement concrete beams.

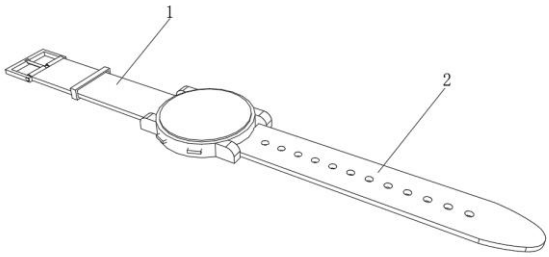


21: 2023/03205. 22: 2023/02/28. 43: 2023/05/29
51: C09K
71: Dr. Vivek, National Institute of Technology (NIT)
72: Dr. Vivek
54: A PROCESS FOR MELTING ICE AND/OR PREVENTING SLIPPERINESS ON LOW-TEMPERATURE ROADS AND ITS COMPOSITION THEREOF
00: -
The present invention generally relates to a process formelting ice and/or preventing slipperinesson low-temperature roads comprises mixing 20-40 wt% of Potassium acetate with 60-80 wt% of a proprietary blend of organic compounds Molasses and a proprietary blend of organic compounds; cleaning road surfaces with fresh water and drying in natural sunlight for 20-30 minutes; and applying the mixture to the road surface using a road maintenance equipment.



21: 2023/03206. 22: 2023/02/28. 43: 2023/05/29
51: G01S
71: Huangshan University
72: Wang Yuntian, Ding Nan, Jiang Hong
54: TOURIST POSITIONING DEVICE FOR TOURISM MANAGEMENT
00: -
The invention discloses a tourist positioning device for tourism management, which comprises a watchcase, wherein the front end of the watchcase is rotatably connected with a first watchband, the rear end of the watchcase is rotatably connected with a second watchband, the top of the second

watchband penetrates through and is provided with uniformly distributed limit holes, and the front end of a central position on the left side of the watchcasing penetrates through and is provided with an emergency help button. The rear end of the central position on the left side of the watchcase penetrates through and is provided with a talkback button, and the central position on the right side of the watchcase penetrates through and is fixedly connected with a charging port. In that invention, the talkback button can be actively press to activate the talkback mechanism to talk with a tour guide, so as to remind and guide a search team or the search work of the tour guide, not only is more convenient, but also internal functions are increase with pertinence, not only is the problem that the wearing of a badge is easy to lose caused by the collision of too many tourists with other is avoided, At that same time, irreversible damage left on the clothe due to the fact that the badge pin is pierced into the clothe is avoided.

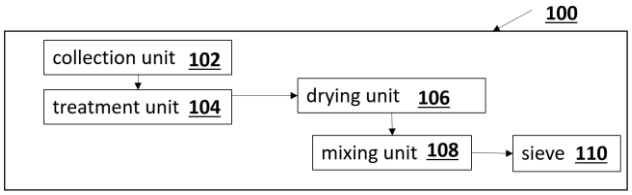


21: 2023/03207. 22: 2023/02/28. 43: 2023/05/29
51: A45D
71: Dr. Vivek, National Institute of Technology (NIT)
72: Dr. Vivek

54: A SYSTEM AND A METHOD FOR MODIFYING HUMAN HAIR TO PREPARE A SUSTAINABLE PAVEMENT MATERIAL

00: -

A system (100) and a method (200) for modifying human hair to prepare a sustainable pavement material, wherein the system (100) comprises of: a collection unit (102) for collecting a plurality of hair strands from a plurality of sources, wherein the collected hair is cleaned by a cleanser to remove dirt or oil; a treatment unit (104) for treating the plurality of hair strands with 2-5% of aqueous solution of potassium hydroxide (KOH) for a defined interval to breaking an outer layer of each of the plurality of strands; a drying unit (106) for drying the plurality of treated hair strands at a defined temperature upon washing with water; and a mixing unit (108) for mixing the 4-6% of dried treated hair strands with 4-6% of a pavement material such as bitumen to prepare the sustainable pavement material, wherein 4-6% of bitumen is mixed in 1200 gm weight of aggregates.



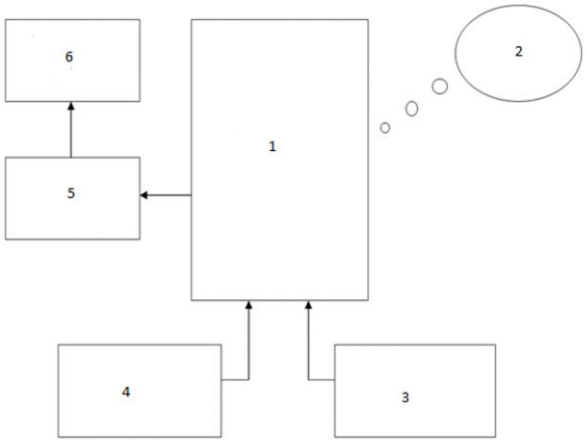
21: 2023/03208. 22: 2023/02/28. 43: 2023/05/29
51: G06F
71: VISHWAKARMA INSTITUTE OF TECHNOLOGY
72: MHETRE, Manisha, SONDKAR, Shilpa, HANNURE, Sakib Sameer, KADAM, Harshada Surendra, JAKHOTIA, Rahul Vikas, DADWAL, Manpreet Daljeet Singh, INAMDAR, Musab

54: SMART WATER TAP SYSTEM

00: -

The present invention relates to a smart water tap system.Water is the available natural resources on earth, which has to be utilized efficiently. Also, it has to be provided without wastage to face the problem of scarcity with appropriate quantity and quality. Water bodies cover 70% of earth surface out of this only 3% of water is portable and drinkable. In This project is to build and to test a smart tap system. The smart tap system is more advanced than the conventional hand wash and it is designed to improve life by having a more convenient hand wash system. For instance, the water flow sensor, ultrasonic sensor, solenoid valve, nodemcu and some basic electronic components are integrated into the system. The project is, using the ultrasonic sensors to detect the object placed bellow it. The system controls the water tap automatically in sequence using the nodemcu because all the main components such as water flow sensor and ultrasonic sensor are connected to the nodemcu and after the tap is on the data such as water flow rate and total amount of water flowed is updated on the thinger.io cloud server. The project was created and implemented as a prototype of automatic water dispenser and monitoring, based on a nodemcu titled smart tap system. The smart tap system is a

smart system as the people who wish to wash his/her hand or drink water don't need to tum on the water tap just they have to place their hand below the faucet, it will start working after use of water user can monitor the total flow of water and flow speed also.



21: 2023/03209. 22: 2023/02/28. 43: 2023/05/29
51: C12Q
71: Inner Mongolia Academy of Agricultural and Animal Husbandry Sciences
72: He Xiaoyong, Kong Qingquan, Tian Xiaoyan, Chen Wenjin, Fan Yafang, Yan Mengjiao, Sa Qirenggui, Zhang Xiangqian, Feng Xiaohui, Xue Chunlei, Wang Yaxin

54: A METHOD FOR DETECTING HALO BLIGHT IN MUNG BEAN

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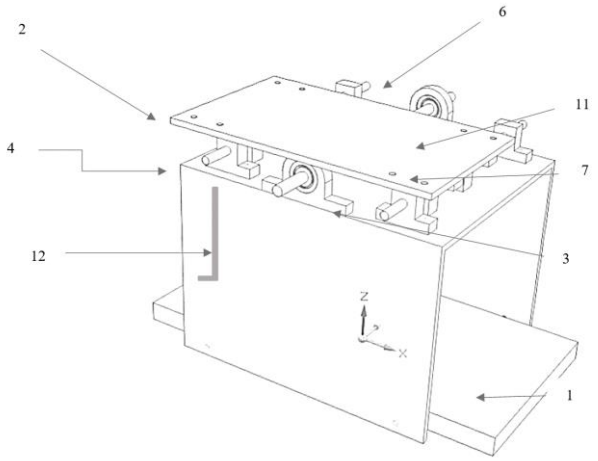
The invention provides a method for detecting halo blight in mung bean, which relates to the technical field of biological pathogen detection. The method for detecting halo blight in mung bean comprises the following steps: S1. Extracting mesophyll cells; S2. Carrying out gram stain test; S3. Carrying out gelatin liquefaction test; S4. Carrying out hydrolyzed starch test; S5. Carrying out reduction of nitrate test. Detecting and judging whether the leaves with spots are infected with gram-negative bacteria through the gram stain test, and then testing and judging whether are infected with pseudomonas syringae through carrying out the gelatin liquefaction test, hydrolyzed starch test and reduction of nitrate test. If the mesophyll cells are still purple after gram stain test, the leaves are infected with gram-positive bacteria, on the contrary, the leaves are not infected with halo blight and no subsequent tests are needed, which greatly shorten the detection process. At the same time, the biochemical characteristics of pseudomonas syringae are tested to improve the accuracy of detection results.

21: 2023/03210. 22: 2023/02/28. 43: 2023/05/29
51: C09J
71: DR.VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, DAYANE, Shailendra Ashok, GHORPADE, Ratnakar R.
72: DAYANE, Shailendra Ashok, GHORPADE, Ratnakar R.

54: ADHESIVE STRENGTH APPARATUS FOR BIOPOLYMER MATERIALS

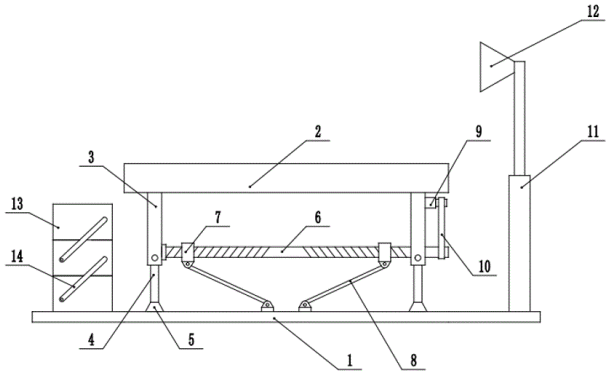
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The present invention relates to adhesive or peel strength apparatus for biopolymer materials.A 90 Degree Peel Test apparatus on which experimental studies are to be done. Three biopolymers namely Polyetheretherketone (PEEK), Chitosan and polylactic acid (PLA) are used with three different adhesives Araldite, Loctite and Hysol. While Stainless Steel is used as rigid adherend. The results are useful in the actual application of these Biopolymers for orthopedic and other biomedical use.Analytical analysis to find the peelstrength of three different Biopolymers namely Polyetheretherketone (PEEK), Chitosan and polylactic acid (PLA) is done by using ANSYS software. To conduct this test a Peel Test Fixture is used and the load at which the flexible adherend is peeled off from rigid adherend is calculated. This invention is described in detail with the help of Figure 1 illustrates the Schematic Diagram of apparatus.



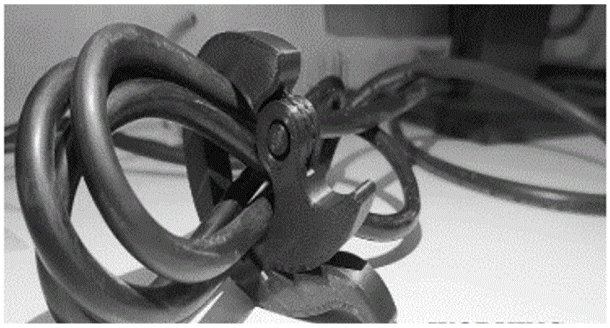
21: 2023/03211. 22: 2023/02/28. 43: 2023/05/29
51: A61G
71: WUXI SECOND PEOPLE'S HOSPITAL
72: JIANG, Yu
54: LIFTING SURGICAL OPERATING TABLE
00: -

The present invention discloses a lifting surgical operating table, which comprises a base, an operation table top, a fixed frame and a support frame; a sucking disc is fixedly connected to bottom of the support frame, the sucking disc is adsorbed to surface of the base; a cross bar is fixedly connected between the fixed frame, a rotating shaft is rotationally connected to the cross bar, one end of the rotating shaft extends to outside of the cross bar; a drive motor is fixedly connected on the fixed frame through a bolt, opposite screw threads are evenly distributed on surfaces of both sides of the rotating shaft, and a moving part is sleeved on the rotating shaft, the moving part is connected to the screw threads of the rotating shaft; a connecting rod is hinged to bottom of the moving part, the base is hinged to end of the connecting rod. The operation table top can be lifting to facilitate handling of patients and surgical operations, providing greater convenience to medical workers; and the operating table is stable and the toolbox can be stretched to facilitate selection of surgical appliances.



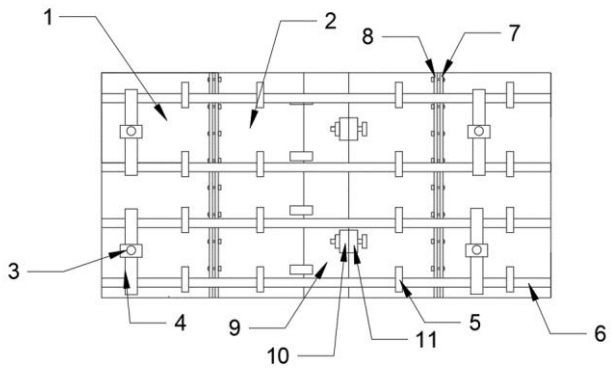
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51: F16B
71: VISHWAKARMA INSTITUTE OF TECHNOLOGY
72: DONGRE, Ganesh, KULKARNI, Mukund, DHARTI, PATIL, GEDAM, Ritesh, DHADI, Shruti, DOLHARKAR, Saurabh, DHATRAK, Sakshi, KATKADE, Prathamesh
54: A CABLE CLAMP
00: -

The present invention relates to a cable clamp made using 3d printing. Cable clamps are an essential tool for building, electrical work and more. They keep wires organized and functional. These are mostly seen with electrical cable and piping as well. Some clamps will give a very tight and permanent fit; others will be loose and act as a guide. In this project, we design a flexible cable clamp. They combine all of the successful elements of the original Cable Clamps with innovative new features to provide easy-to-use, reusable, adjustable, and rugged cable organizational solutions. This cable clamp makes by using additive manufacturing 3D printing process.



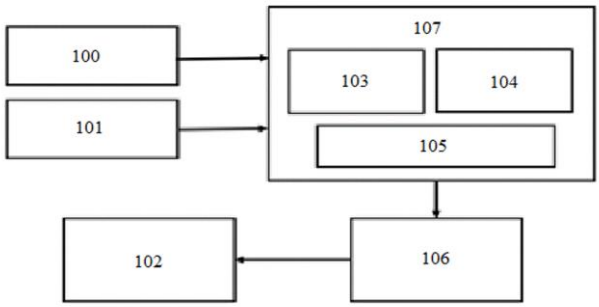
21: 2023/03213. 22: 2023/02/28. 43: 2023/05/29
51: H02G

71: CHINA CONSTRUCTION FIFTH ENGINEERING BUREAU CO., LTD., CHINA CONSTRUCTION FIFTH BUREAU SOUTH CHINA CONSTRUCTION CO., LTD.
72: ZHU, Zhenhao, ZHANG, Junqi, HU, Qinding, ZENG, Ganfeng, ZHOU, Zhixiang
54: AN ALUMINA TEMPLATE QUICK INSTALLATION STRUCTURE
00: -
The present invention embodies an alumina template quick installation structure. It belongs to the building construction technical field and comprises: first alumina template, second alumina template, first connecting bar and second connecting bar. The first connecting bar and second connecting bar are installed near the joint between the first alumina template and second alumina template and connected to the first alumina template and the second alumina template respectively; The first connecting bar and second connecting bar have first bolt holes and can be connected through the first bolt holes; There are multiple bulges on the side of the first alumina template farther from the first connecting bar, and multiple grooves on the side of the second alumina template farther from the second connecting bar; Sealing components, the sealing components are provided at the connection between the first alumina template and the second alumina template of the other alumina template body to prevent the overflow of concrete from the joint. The alumina template in the present invention is featured by the quick installation, simple structure, convenient operation and higher working efficiency. The alumina template structure can be reused for multiple times, reducing the costs and improving the construction quality.



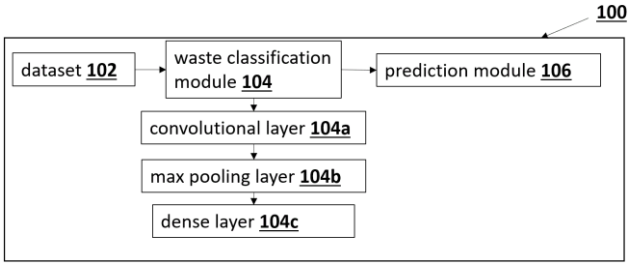
21: 2023/03214. 22: 2023/02/28. 43: 2023/05/29
51: G05F

71: VISHWAKARMA INSTITUTE OF TECHNOLOGY
72: JALNEKAR, Rajesh, BHATLAWANDE, Shripad, SHILASKAR, Swati, MADAKE, Jyoti, KUMARI, Aditi, AGRAWAL, Mohit, AMBEKAR, Mahi, AMILKANTHWAR, Siddhi, RAJ, Amit
54: AN ARTIFICIAL INTELLIGENCE BASED HANDHELD ELECTRONIC TRAVEL AID FOR VISUALLY IMPAIRED PEOPLE
00: -
The present invention relates to an artificial intelligence based handheld electronic travel aid for visually impaired people. The proposed system consists of a monocular camera [101], raspberry pi board, an ultrasonic sensor [100] and an earphone [102], wherein the monocular camera [101] acquires an image of the surroundings and provides that image as an input to the raspberry pi board; the pre-trained single shot detector Mobile Net v3 adaptive configuration embedded on raspberry pi; this adaptive configuration detects total 80 indoor and outdoor objects such as person, door, table, chair, bed, car, cat, dog, bench etc; an ultrasonic sensor used for depth computation [105]; it converts the details of detected obstacles into audio feedback; the system conveys the interpreted information to the visually impaired user through an earphone [102].

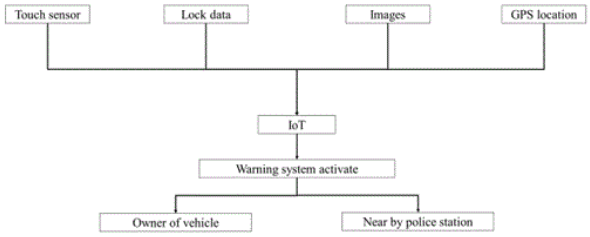


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51: B07C
71: Yagnyasenee Sen Gupta, Dr. Shyamapada Mukherjee
72: Yagnyasenee Sen Gupta, Dr. Shyamapada Mukherjee
54: AN EFFICIENT WASTE CLASSIFICATION SYSTEM
00: -
A system (100) to provide an efficient waste classification system, wherein the system (100)

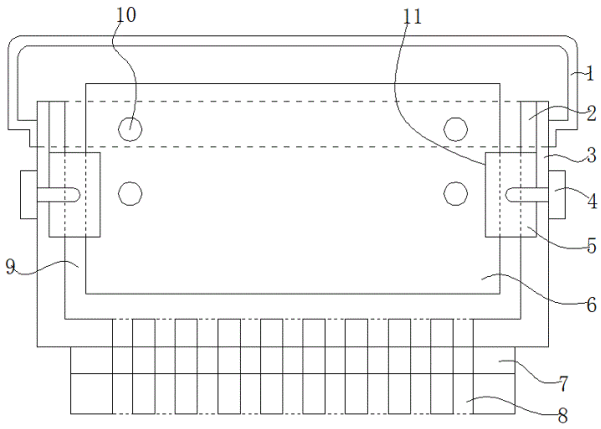
comprises of: a dataset (102) for collecting a plurality of images of a varying waste type as input; a waste classification module (104) connected to the dataset (102) for classifying the dataset (102) in to a plurality of classes, wherein the waste classification module (104) comprises of weight layers for image classification into a waste type; and a prediction module (106) connected to the waste classification module (104) for predicting the type of waste during classification based on an ensembling technique.



21: 2023/03216. 22: 2023/02/28. 43: 2023/05/29
51: G06Q
71: PRASAD, Anubhav Kumar, ORTIZ, Geovanny Genaro Reivan, SINGHOLI, Ajay Kumar Singh, SAYYAD, Farook Bashir, DESHMUKH, Araddhana Arvind, PANDURANG, Gaikwad Anil
72: PRASAD, Anubhav Kumar, ORTIZ, Geovanny Genaro Reivan, DESHMUKH, Araddhana Arvind, SINGHOLI, Ajay Kumar Singh, PANDURANG, Gaikwad Anil, SAYYAD, Farook Bashir
54: IOT AND IMAGE PROCESSING BASED ANTI-THEFT SYSTEM FOR VEHICLES
00: -
The present invention relates to provide using IoT and image processing anti-theft systems for vehicles. Machine learning algorithm and block chain technologies are used for warning generation system and maintain history of data using. The system is comprising of touch sensors, GPS, IoT network, image capturing unit, smart mobile phone. Touch sensors, image capturing units, GPS and IoT connected device are installed in vehicle. IoT network also connects the owner and near police station automatically based on location and suspect activity of miscreants/s.



21: 2023/03217. 22: 2023/02/28. 43: 2023/05/29
51: H01H
71: HUANENG JINGMEN THERMAL POWER CO., LTD.
72: LIU, Lang, TIAN, Guiping, ZENG, Huiping, WANG, Xun, YE, Jiqing, LI, Jianhong, REN, Xiangfeng, XU, Jian, LI, Xuehua
33: CN 31: 202211517402.X 32: 2022-11-30
54: AN ARC EXTINGUISHING CHAMBER OF HIGH VOLTAGE CIRCUIT BREAKER AND THE METHOD FOR ASH CLEAN-OUT
00: -
An arc extinguishing chamber of a high voltage circuit breaker, the arc extinguishing chamber including an arc extinguishing chamber (3), where the arc extinguishing chamber (3) is sealed by an upper cover (1), meanwhile, the top of the arc extinguishing chamber (3) is fixed with the upper cover (1), the arc extinguishing chamber (3) is fixed with a base structure (7), ionized gas inlet ports (8) are formed in the base structure (7), the arc extinguishing chamber (3) is fixed with a high voltage circuit breaker body by the base structure (7), a plurality of groups of arc extinguishing grids (6) are arranged in the arc extinguishing chamber (3), meanwhile, both sides of each of the plurality of groups of arc extinguishing grids (6) are fixed by fixing frames (11), and end parts of the fixing frames (11) are welded and fixed with location blocks (5). According to the arc extinguishing chamber of the high voltage circuit breaker, the arc extinguishing grids are held with hands and detached from the arc extinguishing chamber to be subjected to ash clean-out, so that the case that ionized gas impacts on ash surfaces of the arc extinguishing grids, and segmentation arc-extinguishing working cannot be carried out on the ionized gas, is avoided, and the safety of the circuit breaker in use is improved.

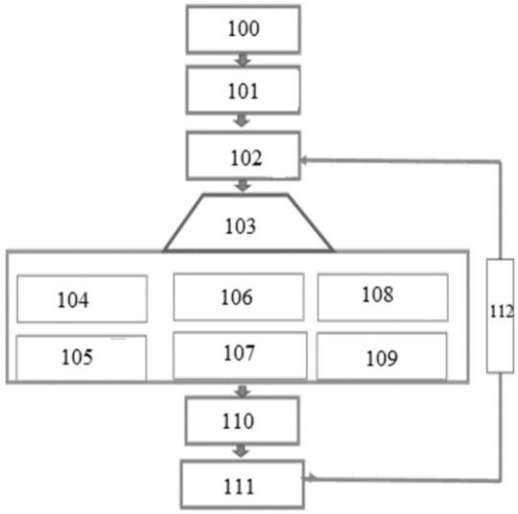


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51: G06F
71: VISHWAKARMA INSTITUTE OF TECHNOLOGY
72: SHILASKAR, Swati, BHATLAWANDE, Shripad, JALNEKAR, Rajesh, CHANDOLIKAR, Neelam, MADKE, Jyoti, GUPTA, Dhavanit, DHANDE, Shaunak, DHAWALE, Akshay, GAIKWAD, Abhishek, GANDHI, Sayar

54: A GESTURE BASED SYSTEM FOR CONTROLLING AUTOMOTIVE SUBSYSTEMS

00: -

The present invention relates agesture based system for car driver. The object of the proposed invention is to allow drivers to operate automotive equipment and functions without being distracted. Present invention proposes a system where hand gestures are recognizing and used for car driver experience enhancement. The gesture sensor is employing for data collection from hand gesture movements (up, down, near, far, left, and right) perform by the driver at a predefined distance from the side of the steering wheel. Each gesture is assigning to an operation for a better experience to the driver while driving the car. It may happen that accidental movement of the hand can be taking as a gesture, so to prevent this there is an unlocking gesture movement to be performs before a particular operation gesture.Following invention is described in detail with the help of Figure 1 of sheet 1 illustrates proposedinvention.



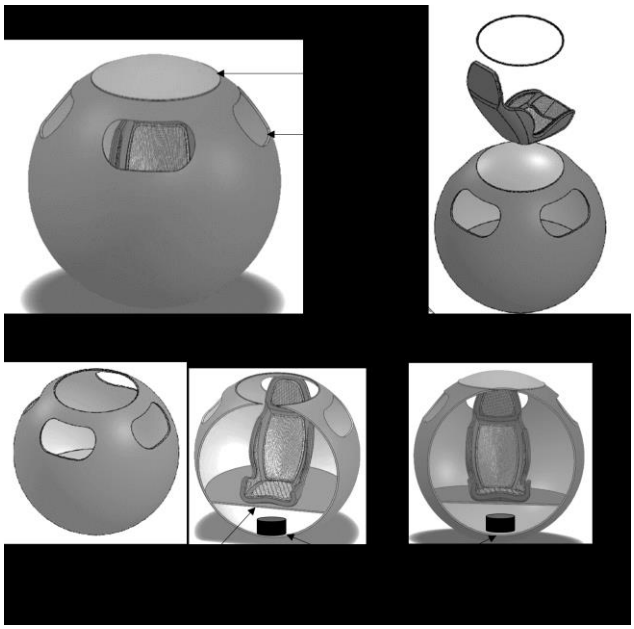
21: 2023/03220. 22: 2023/02/28. 43: 2023/05/29
51: A62B
71: VISHWAKARMA INSTITUTE OF INFORMATION TECHNOLOGY
72: MACHE, Ashok Rangnath, KULKARNI, Atul Prabhakar

54: LIFE SAVING CAPSULE FOR HUMAN SAFETY DURING FLOOD

00: -

The present invention relates to a life saving capsule for human safety during flood. Climate change is causing large-scale floods across various states of India. Floods are the most frequent type of natural disaster which may results in loss of life and damages to infrastructure. People who live particularly in floodplains or having no warning systems are most vulnerable to floods. Many people have lost their lives due to outbreak of floods. This article discusses about a novel idea of designing cost effective and lightweight rescue capsule which would help to save the lives of the people when get affected due to severe floods. Rescue Capsule is a spherical capsule made up of lightweight and waterproof material and floats in water like boat. It is designed in such a way that a person sitting inside can survive from flood without drowning for at least two to three days. Rescue Capsule also has provision to store essential things like a first aid kit, lifejackets, oxygen cylinder, food items, water bottles etc., which are necessary for the survival. It is proposed to manufacture Rescue Capsule with glass-epoxy composite material, which is light in weight, mechanically strong and durable. Rescue Capsule is also provided with proper ventilation so

that it is comfortable and safe for people while sitting inside it.This invention is described in detail with the help of Figure 1 illustrates the Schematic Diagram of invention.

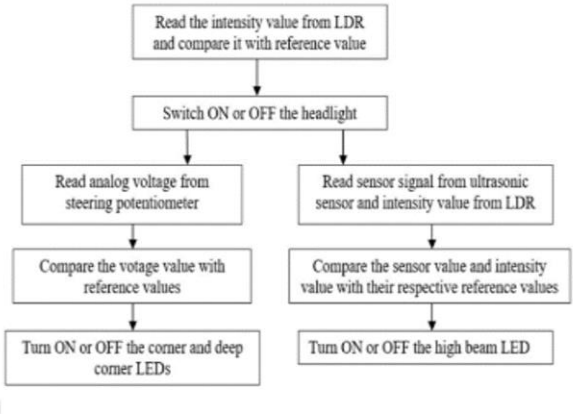


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51: G06F
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72: DONGRE, Ganesh, KULKARNI, Mukund, DHARTI, PATIL, GEDAM, Ritesh, DHADI, Shruti, DOLHARKAR, Saurabh, DHATRAK, Sakshi, KATKADE, Prathamesh

54: INTEGRATED SYSTEM FOR SAFETY ENHANCEMENT

00: -

The present invention relates to integrated system for safety enhancement. Ensuring equipment reliability, preventing human error and preventing accidents are necessary for improving predictable plant capacity. These subjects however, have so far been treated separately whereas an integrated approach is the need of the hour. A typical maintenance system focuses on equipment. However, its goals must include establishment of conditions that reflect an understanding of production plants as a combination of various man-machine systems. Eliminating accidents and removing causes of production interruptions should be approached from the “man” as well as “machine” side. This paper outlines the relationship that exists between plant productivity, safety, and maintenance activities. An integrated system of activities, which is likely to help in eliminating accidents and maintenance related causes of production interruptions, is presented. This system divides plant operations into “man-machine” system and management system activities. Activities that assist in eliminating accidents and removing potential causes of production interruptions are presented. Key performance indicators and a methodology for operating a continuous improvement program are outlined. To minimize mortality, streets are being improved, and new design innovations are being implemented in autos. These days, there is a greater emphasis on vehicle safety. Even Nevertheless, the automotive industry continues to make strenuous efforts to improve vehicle safety in order to substantially minimize damage and death. It has been noted that matching stiffness between vehicles in vehicle-to-vehicle crashes might be challenging in some instances, which is one of the main difficulties for enhancing frontal impact compatibility in cars.



21: 2023/03222. 22: 2023/02/28. 43: 2023/05/29
51: A61P
71: BEIJING RONGXIANG INSTITUTE OF REGENERATIVE MEDICINE CO., LTD, LI, Li
72: LI, Li

54: USE OF A PHARMACEUTICAL CARRIER IN THE PREPARATION OF ANTI-DIABETIC PHARMACEUTICAL COMPOSITION

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The present invention relates to the use of a pharmaceutical carrier in the preparation of anti-diabetic pharmaceutical composition. In particular, the present invention relates to the use of a pharmaceutical carrier in the preparation of anti-diabetic pharmaceutical composition, wherein the

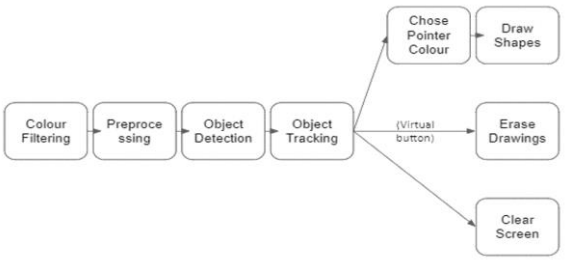
pharmaceutical carrier consists of well-mixed sesame oil and beeswax, the anti-diabetic pharmaceutical composition comprises oryzanol and berberine hydrochloride as active ingredients; wherein the oryzanol is present in an amount of 1-5% by weight, the berberine hydrochloride is present in an amount of 5-50% by weight, the beeswax is present in an amount of 1-20% by weight, and the sesame oil is present in an amount of 40-85% by weight, relative to the total weight of the pharmaceutical composition. The present invention further relates to an anti-diabetic pharmaceutical composition as above, which is subjected to compressing, rinsing, drying and screening, and packaged into vial to obtain a product in soft capsule dosage form. The product has advantages such as stable control of blood glucose, lowering the level of blood glucose and blood lipid, protecting liver function, as well as low irritation on gastrointestinal tract.

21: 2023/03285. 22: 2023/02/28. 43: 2023/05/29
51: G06F
71: VISHWAKARMA INSTITUTE OF TECHNOLOGY
72: MHETRE, Manisha, SONDKAR, Shilpa, SATHWANE, Pratik Vijaykumar, RUGALE, Vivek Chandrashekhar

54: ADVANCED DIGITAL BOARD USING VIRTUAL PEN

00: -

The present invention relates to an advanced digital board using virtual pen. While teaching, presentations, and many other occasions, writing or drawing shapes on non-touchscreen displays with a mouse pointer is often difficult and not feasible most of the time. This project aims at developing a program that will simplify this problem with the help of image processing. The project will provide the provision for the user to just move their pen (or anything based on color which is easier to hold) in the air in front of the camera to write the letters or draw shapes and that movement will be detected and tracked by the program to show those particular letters on the screen. The project uses the OpenCV library in Python for recording and analyzing the incoming video frames.

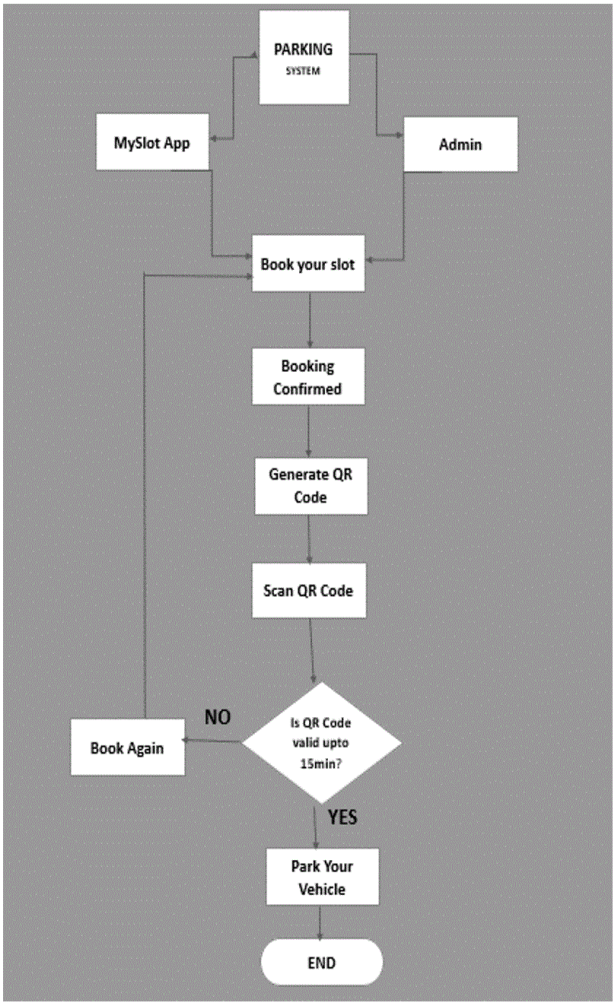


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51: G06F
71: DR.VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, CHANDANKHEDE, Chaitali, KAKADE, Pratap, PANDEY, Kabir Satya, PEDNEKAR, Prem Tushar, KHATAVKAR, Rujul
72: CHANDANKHEDE, Chaitali, KAKADE, Pratap, PANDEY, Kabir Satya, PEDNEKAR, Prem Tushar, KHATAVKAR, Rujul

54: A PARKING ASSISTANCE SYSTEM

00: -

The present invention is a step to solve the parking issues hand in hand will also help traffic regulation. As we have seen many parking systems are mostly setup in malls, institute, company etc. and this parking system is manually controlled. Similarly, the temporary events parking is managed manually. As part of private setup, an organization can make a fully automatic parking system. As mentioned in the above framework, main components are the cameras and sensors. It acts as a portable setup and could be set up for temporary parking management system. It can act as a center of attraction for the people who would like to start up a parking management system. According to statistics, it is observed that a person consumes at least 10-15 minutes in the search of parking. If we setup our idea in public area or at public parking areas, it will be great initiative towards comfortable search of parking spot. Doing this will also benefit our traffic police in regulation the park and will reduce air pollution (if we look on a large scale).It is more about reusing the resources. Today the camera plays a major role in city surveillance and we want more area to be under surveillance.

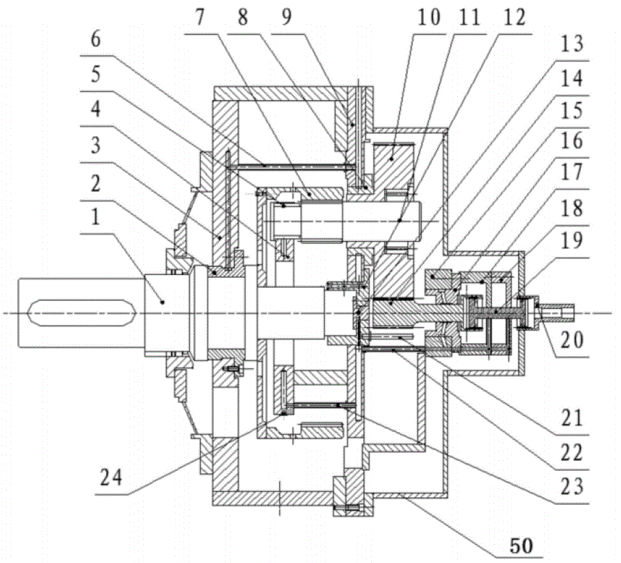


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51: F16H
71: NO. 703 RESEARCH INSTITUTE OF CSSC
72: JIANG, Lidong, CHANG, Shan, FU, Lin, WANG, Lijun, CHEN, Pengyue

54: LUBRICATING OIL CIRCUIT SYSTEM FOR ULTRA-HIGH-SPEED PLANETARY GEAR BOX

00: -

Provided is a lubricating oil circuit system for an ultra-high-speed planetary gear box, which relates to a lubricating oil circuit system. The problem of partial failure of gears as lubricating oil cannot be evenly and completely sprayed to the gears in an existing lubricating oil circuit system is solved. The lubricating oil circuit system includes a gear box body (50), an oil circuit system, a pinion oil spraying pipe (21), and a plurality of spraying heads (52). The oil circuit system is arranged in the gear box body (50) and supplies oil. The pinion oil spraying pipe (21) is horizontally mounted on a supporting plate (9), and the pinion oil spraying pipe (21) communicates with an oil inlet in the supporting plate (9). A plurality of round holes (51) are provided in the pinion oil spraying pipe (21) in an axis direction thereof. Each round hole (51) is provided with one spraying head (52). The spraying heads (52) face a pinion in the gear box body (50). The lubricating oil circuit system is configured to lubricate and cool the ultra-high-speed planetary gear box.



21: 2023/03288. 22: 2023/02/28. 43: 2023/05/29
51: A01H
71: CHINESE ACADEMY OF FORESTRY, Research Institute of Non-timber Forestry, Chinese Academy of Forestry
72: DIAO, Songfeng, TANG, Xiaoqian, HUANG, Lin, ZHAO, Zijian, ZHANG, Jiajia, FAN, Xiongfei, ZHANG, Weiyin, DOU, Zhipeng, JIANG, Jianting, ZHU, Gaopu

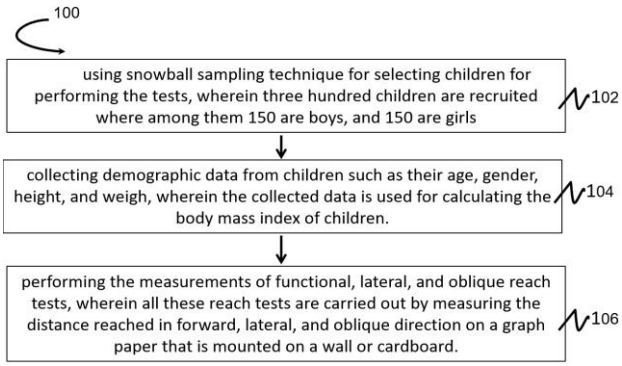
54: A SEA BUCKTHORN POLLINATION SUSPENSION AND A SEA BUCKTHORN SPRAY POLLINATION METHOD

00: -

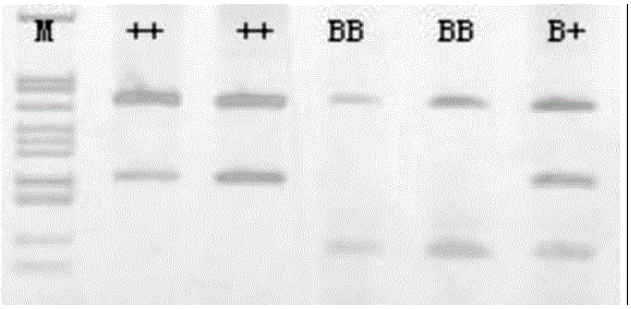
The present invention provides a sea buckthorn pollination suspension and a sea buckthorn spray pollination method, and belongs to the technical field of sea buckthorn reproduction and propagation. The sea buckthorn pollination suspension and the special spray pollination method provided by the present invention can overcome the problems of low fruiting rate and inconvenience for crossbreeding and remote pollination in the sea buckthorn pollination methods of the prior art. The fruiting rate of the sea buckthorn can be improved to 89.16%~91.16%, and

the pollination effect is significantly improved. In addition, the specific compound microbial inoculum used in the pollination suspension can play a critical role in promoting pollen germination and the growth of pollen tube, and finally help to achieve the effect of improving pollination and fertilization; Beyond that, the duration of pollen vitality is maintained longer. The fruiting rate is still more than 50% after storing the pollination suspension for 15d, which has an important significance in remote hybridization and pollen storage.

21: 2023/03289. 22: 2023/02/28. 43: 2023/05/29
51: A61B
71: Dr.Jaya Shanker Tedla, Mr. Anirudh Tedla
72: Dr.Jaya Shanker Tedla, Mr. Anirudh Tedla
54: A METHOD FOR DETERMINING NORMATIVE VALUES FOR FUNCTIONAL, LATERAL, AND OBLIQUE DIRECTION REACH TESTS IN CHILDREN
00: -
The present disclosure relates to a method for determining normative values for functional, lateral, and oblique direction reach tests in children. In the present disclosure, the validity and reliability of oblique direction reach tests (ORDT) is assessed by the determined normative values. In the present disclosure, using snowball sampling, 300 Saudi youngsters between the ages of 6 and 15 were selected. On graph paper mounted on a wall or piece of cardboard, children's forward, lateral, and oblique distances were measured. The results showed that ODRT is a valid and reliable for measuring limits of stability in oblique direction.

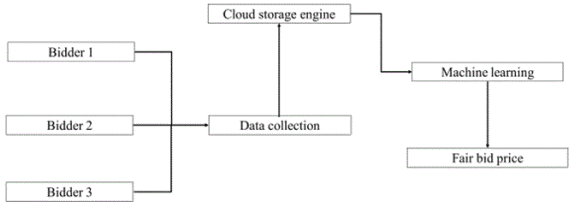


21: 2023/03290. 22: 2023/02/28. 43: 2023/05/29
51: C12Q
71: Xinjiang Academy of Agricultural Reclamation Sciences
72: wang jingjing, Shi guoqing, Wan pengcheng, Dai rong, Liu yucheng, Fu xiangwei, Yang yang
54: A METHOD FOR RAPID DETECTION OF FECB GENE IN OVIS ARIES
00: -
The invention discloses a method for rapidly detecting a fecundity FecB gene of a sheep. The invention provides a method for performing FecB genotyping by using four single-stranded amplification primers, which comprises the following steps of: amplifying genome DNA of a sheep to be detected by using a specific upstream primer F1, a downstream primer R1, a control upstream primer F2 and a control downstream primer R2; and performing electrophoresis analysis on a PCR amplification product to determine the size and the number of bands in the sequence amplification product. The product has three cases: containing 220bp and 120bp; 220bp and 160bp; 220bp, 160bp and 120bp. The research result of the invention shows that the detection of the sheep FecB gene by the Tetra-primer ARMS-PCR has the characteristics of rapidness, simplicity, convenience, low cost and the like, provides a theoretical and practical basis for research and sheep breeding, and brings benefits to sheep producers.



21: 2023/03291. 22: 2023/02/28. 43: 2023/05/29
51: G06Q
71: PETWAL, Hemant, DEB, Nabamita, KHAN, Ihtiram Raza, MENON, Satish, SHELKE, Chetan, ACHARY, Rathnakar
72: PETWAL, Hemant, DEB, Nabamita, KHAN, Ihtiram Raza, MENON, Satish, SHELKE, Chetan, ACHARY, Rathnakar
54: MACHINE LEARNING ENABLED SYSTEM FOR INTELLIGENT BID PRICE SELECTION FOR PROFIT ACCUMULATION
00: -
The present invention relates to provide a machine learning enabled system for intelligent bid price selection for profit accumulation. Machine learning

technology is based on data training system and to develop user define functions to get best bid price. Using of emerging technologies are helpful to remove human interfere during bid process. Time taking during manual bid price selection is more. Therefore, reduce processing time by using machine learning. The system is comprising of data collection unit, machine learning algorithm, smart UI.

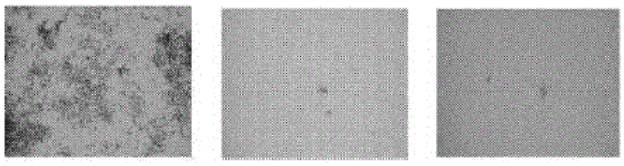


21: 2023/03292. 22: 2023/02/28. 43: 2023/05/29
51: A61K
71: BEIJING RONGXIANG INSTITUTE OF REGENERATIVE MEDICINE CO., LTD, LI, Li
72: LI, Li

54: USE OF PHARMACEUTICAL COMPOSITION IN PREPARING DRUG AGAINST HELICOBACTER PYLORI

00: -

A use of a pharmaceutical composition in preparing a drug against Helicobacter pylori. The pharmaceutical composition is suitable for oral administration and comprises a homogeneous mixture of edible oil, beeswax, and ß-sitosterol. The beeswax in the composition forms microcrystals. Based on the total weight of the composition, the content of the beeswax is 0.5-50%, and the content of the ß-sitosterol is 0.1-20%. The pharmaceutical composition can be used in inhibiting or killing Helicobacter pylori and in treating or preventing a disease caused by Helicobacter pylori.

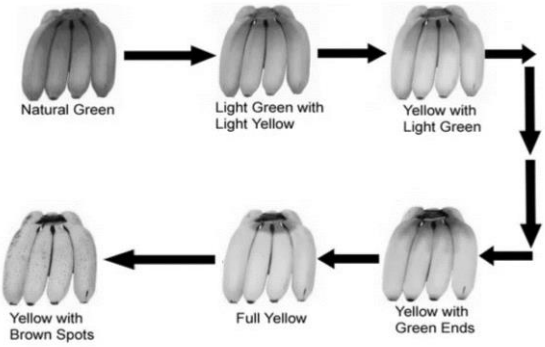


21: 2023/03293. 22: 2023/02/28. 43: 2023/05/29
51: G06F
71: VISHWAKARMA INSTITUTE OF TECHNOLOGY
72: CHAUDHARI, Archana K., SONDKAR, Shilpa, TELKAR, Shreenivas, THOMBARE, Onkar, VIDYE, Atharva, WAGH, Parikshit

54: A SYSTEM FOR VEGETABLES AND FRUITS RIPENESS DETECTION BY COLOR W/ TF

00: -

The present invention relates to a system for vegetables and fruits ripeness detection by color w/ tf. However, nowadays, foods are a subject of mass production. Thus, we need a more reliable and effortless method to distinguish fruits and vegetables depending on their ripeness than the naked eye. In the hope of assisting food companies, grocery stores, and farmers sorting fruits and vegetables. In this study, we have used AS7341Visible light Sensor which gives 10 parameters as an output. We collected the data from it for various fruits and vegetables by this sensor for thrice a day, and followed this for 10 days and then created a .csv file of that data. Then after that, we created an ANN model and got an accuracy of 88% for the training set (95% samples) and 94% for the testing set(5% samples).



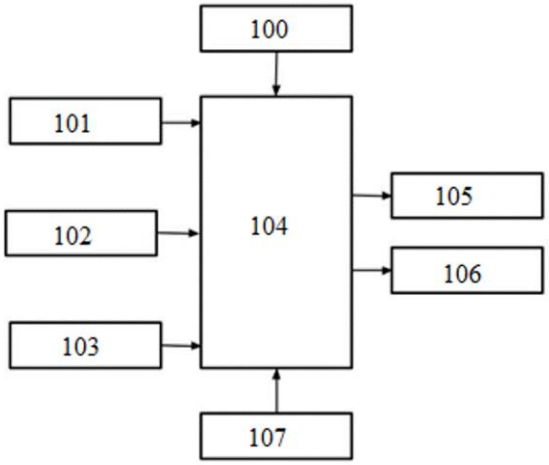
21: 2023/03294. 22: 2023/02/28. 43: 2023/05/29
51: G06F
71: VISHWAKARMA INSTITUTE OF TECHNOLOGY
72: SHILASKAR, Swati, BHATLAWANDE, Shripad, CHANDOLIKAR, Neelam, MADKE, Jyoti, DHANAWADE, Amol, DHARYEKAR, Shreyas, DHOLE, Asavari, GAIKWAD, Parag

54: AN OBSTACLE INFORMATIVE STICK FOR VISUALLY IMPAIRED PEOPLE

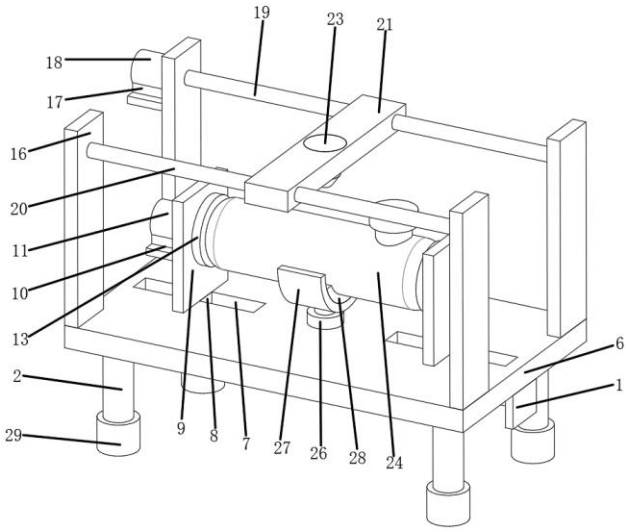
00: -

The present invention relates an obstacle informative stick for visually impaired people. The object of the proposed invention is to provide assistance to blind people in navigating around.Proposed invention provides an assistive stick that uses ultrasonic technology to detect the nature of the obstacle. A mechanism to detect the

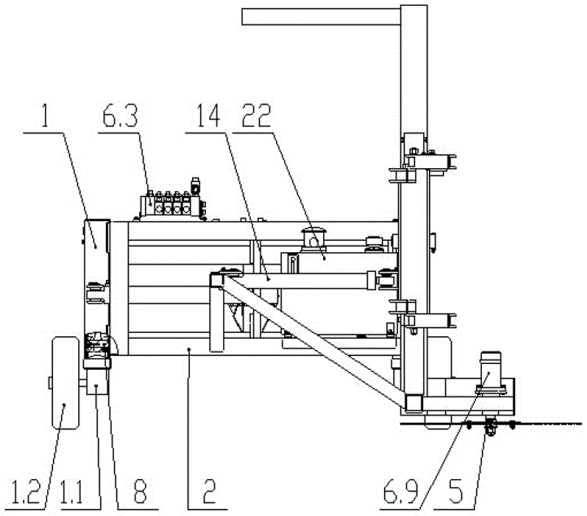
moisture or wetness of the surface has also adding using simple moisture sensor [102]. Following invention is described in detail with the help of Figure 1 of sheet 1 illustrates proposedinvention.



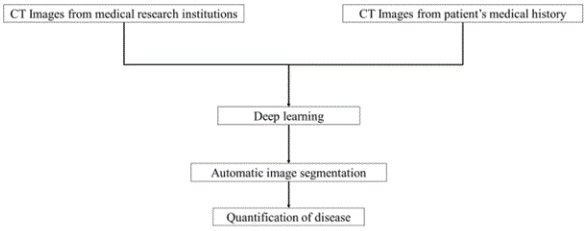
21: 2023/03295. 22: 2023/02/28. 43: 2023/05/29
51: G01M
71: Cai Zhanhe
72: Cai Zhanhe, Wang Huanfang, Kong Jianbiao
54: NONDESTRUCTIVE TESTING DEVICE FOR PRESSURE VESSEL
00: -
The invention relates to the technical field of pressure vessels, in particular to a pressure vessel nondestructive testing device which comprises a workbench, wherein one side of the workbench is fixedly connected with a plurality of supporting legs, one side of the workbench is symmetrically and fixedly connected with a double-shaft motor support, the inner wall of the double-shaft motor support is fixedly connected with double-shaft motors, A first motor bracket is fixedly connected to one side of one vertical plate, a first motor is fixedly connected to the surface of the first motor bracket, an output shaft of the first motor penetrates through the vertical plate and is fixedly connected with a first rotating shaft, and a supporting device is arranged on one side of the workbench, which is far away from the supporting legs. On the basis of a common detection device, the invention is provided with a device for supporting, clamping, rotating and repeatedly detecting the pressure vessel, thereby overcoming the defect that the pressure vessel is difficult to be supported, clamped, rotated and repeatedly detected.



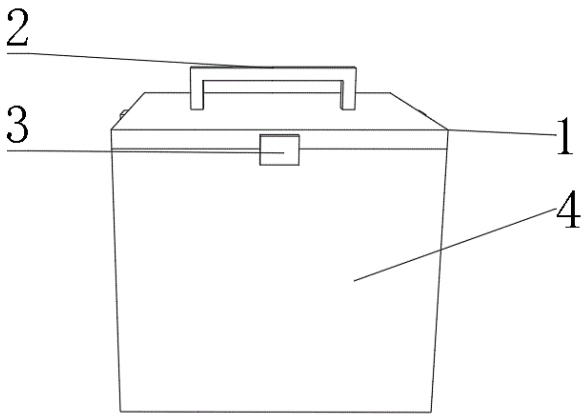
21: 2023/03296. 22: 2023/02/28. 43: 2023/05/29
51: A01G
71: SHANDONG ACADEMY OF AGRICULTURAL MACHINERY SCIENCES
72: LIU, Xuefeng, MIN, Lingqiang, LUO, shuai, ZHANG, Cuiying, SUN, Shenggang, ZHANG, Dexue, QIN, Xitian, REN, Dongmei, QIAO, Lei
54: SUSPENDED FELLER AND FELLING METHOD THEREOF
00: -
A suspended feller and a felling method thereof, belonging to forestry harvesting equipment, are provided. The suspended feller includes a base, a main frame, a bogie, a clasp device, and a cutting device. Left and right sides of the base are provided with legs. An overall height is adjusted by the legs through extension and retraction of a leg oil cylinder. Sliding rails are mounted on the base. The base is connected to a three-point suspension of a tractor. The main frame is slidably mounted on the sliding rails, and a fixed shaft is mounted on the main frame. The bogie is rotatably mounted on the fixed shaft. The clasp device is mounted on the bogie, and includes an upper clasp and a lower clasp for clasping or loosening a trunk. The cutting device is mounted on the main frame to cut the trunk. The feller can automatically complete sawing, tree clasping, turning, putting down, and other actions, thereby greatly improving work efficiency.



21: 2023/03299. 22: 2023/02/28. 43: 2023/05/29
51: G06Q
71: DAVULURI, Sandeep Kumar, VERMA, Navneet Kumar, OAK, Rajvardhan, KUMAR, Harish, THAKUR, G. S., SAYYAD, Farook Bashir
72: DAVULURI, Sandeep Kumar, VERMA, Navneet Kumar, OAK, Rajvardhan, KUMAR, Harish, THAKUR, G. S., SAYYAD, Farook Bashir
54: A DEEP LEARNING BASED SYSTEM FOR AUTOMATIC SEGMENTATION AND QUANTIFICATION OF DISEASE USING CT IMAGES
00: -
The present invention relates to provide a deep learning-based system for automatic segmentation and quantification of disease using CT images. CT scan is imaging technique that uses X-rays in combination with computer for creating images of body tissues, organs, and internal part of body. It can be used to diagnosis of cardiovascular disease, cancer, infection, trauma etc. Automatic segmentation is a process in which images are classification and filtration of images on the basis of specific criteria. Automatic segmentation and quantification of disease technique can be connected with CT images to produce real time disease diagnosis, prediction and forecasting of disease in less time consuming.



21: 2023/03300. 22: 2023/02/28. 43: 2023/05/29
51: E04H
71: Zhengzhou University of Aeronautics
72: Chen xinyong, Li lingling, Wang yi
54: COMMUNICATION SIGNAL ROD FOR FIELD ELECTRIC POW SURVEY
00: -
The invention discloses a communication signal rod for field electric power survey, which comprises a bottom plate, wherein front plates are rotatably connected to the front and rear ends of the outer wall of the bottom plate; side plates are rotatably connected to the left and right sides of the outer wall of the bottom plate; a mounting plate is arranged in the middle of the top of the bottom board; a fixed cylinder is fixedly connected to the middle of the top of the mounting plate; The inner wall of the fixed barrel is connected with a first sliding barrel in a sliding way. In the invention, firstly, in the process of carrying and transportation, the ground nail is pulled out from the bottom plate, the first sliding cylinder is put into the second sliding cylinder, the second sliding cylinder is put into the fixed cylinder, the limiting screw is well installed to prevent the first sliding cylinder and the second slide cylinder from sliding, and the ground nail is put in the first limiting hole in the front plate and the side plate to fix the front plate and the side plate, The first magnet on the top cover is put into the sliding hole, the buckle is fixed on the front plate and the side plate, and the device can be carried by the handle.

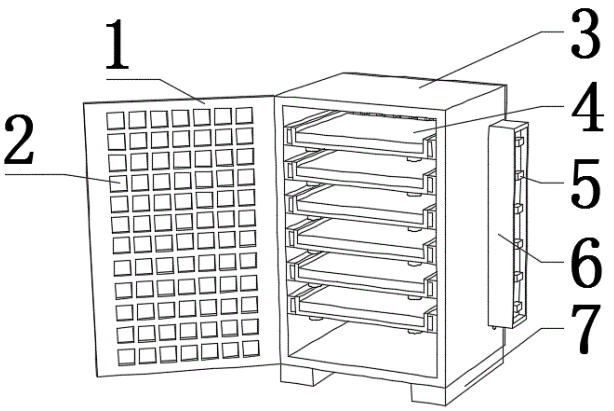


21: 2023/03301. 22: 2023/02/28. 43: 2023/05/29
51: H05K
71: Anhui Medical College
72: Wu Xiaoqian

54: AN INTEGRATE NETWORK MANAGEMENT PROCESSOR

00: -

The invention discloses an integrated network management processor, which comprises an equipment shell, wherein single processor modules are uniformly and vertically distributed in the equipment shell; the rear side of the right outer wall of the equipment shell is fixedly connected with a mounting box; and an external adapter is fixedly connected in the mounting box. In the invention, firstly, the mounting tray is pulled forward, so that the mounting tray drives the processor monomer to move forward and separate from the equipment shell; and in the process, the flexibility of a connecting spring wire for connecting an external adapter and an internal adapter provides a movable range for the processor, so that the wiring is convenient to overhaul.

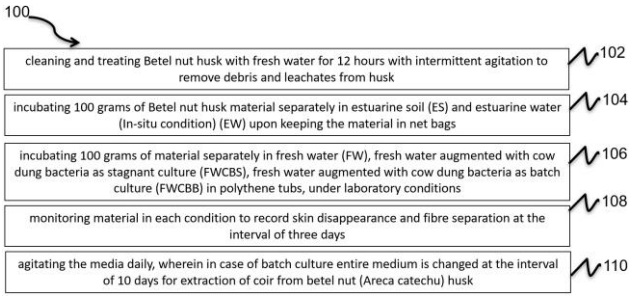


21: 2023/03303. 22: 2023/02/28. 43: 2023/05/29
51: C08L
71: Dr. Mahesh Vijay Gokhale, Dr. Niranjana Sunil Chavan, Dr. Santosh Vasant Madhale, Dr. Ajit B. Telave, Dr. Priya Digambar Patil, Gayatri Umesh Gokhale
72: Dr. Mahesh Vijay Gokhale, Dr. Niranjana Sunil Chavan, Dr. Santosh Vasant Madhale, Dr. Ajit B. Telave, Dr. Priya Digambar Patil, Gayatri Umesh Gokhale

54: A PROCESS FOR EXTRACTION OF COIR FROM BETEL NUT (ARECA CATECHU) HUSK

00: -

The present invention generally relates to a process for extraction of coir from betel nut (Areca catechu) husk comprises cleaning and treating Betel nut husk with fresh water for 12 hours with intermittent agitation to remove debris and leachates from husk; incubating 100 grams of Betel nut husk material separately in estuarine soil and estuarine water upon keeping the material in net bags; incubating 100 grams of material separately in fresh water (FW), fresh water augmented with cow dung bacteria as stagnant culture (FWCBS), fresh water augmented with cow dung bacteria as batch culture (FWCBB) in polythene tubs, under laboratory conditions; monitoring material in each condition to record skin disappearance and fibre separation at the interval of three days; and agitating the media daily, wherein in case of batch culture entire medium is changed at the interval of 10 days for extraction of coir from betel nut husk.

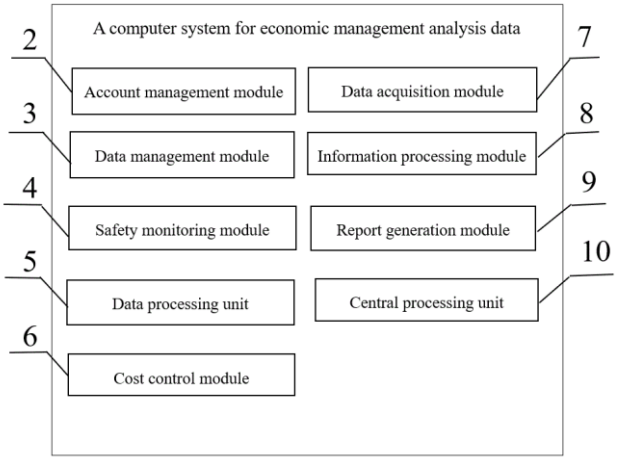


21: 2023/03304. 22: 2023/02/28. 43: 2023/05/29
51: G06F
71: Xi'an Shiyou University
72: Yang Qingqing, Chen Ding, Muhammad Umar Gummi, Balchinova Alena

54: A COMPUTER SYSTEM FOR ECONOMIC MANAGEMENT ANALYSIS DATA

00: -

The patent of the present invention discloses a computer system for economic management analysis data, including an account management module, a data management module, a safety monitoring module, a data processing unit, a cost control module, a data acquisition module, an information processing module, a report generation module and a central processing unit, the central processing unit is used to process and control each unit in each other module, and the data processing unit is used to perform a series of mathematical calculations and logical operations on the data. In the patent of the present invention, firstly, the capital flow data can be processed through data intelligent arrangement unit, and the visual model for easy observation can be established through the data model establishment unit, and different information can be combined and packaged through the information packaging and sorting unit, and the report information can be automatically sent to the account of the designated person who is bound to the account of the department through the information automatic distribution unit, thereby eliminating the need for employees to calculate the actual data and improving the accuracy and efficiency.

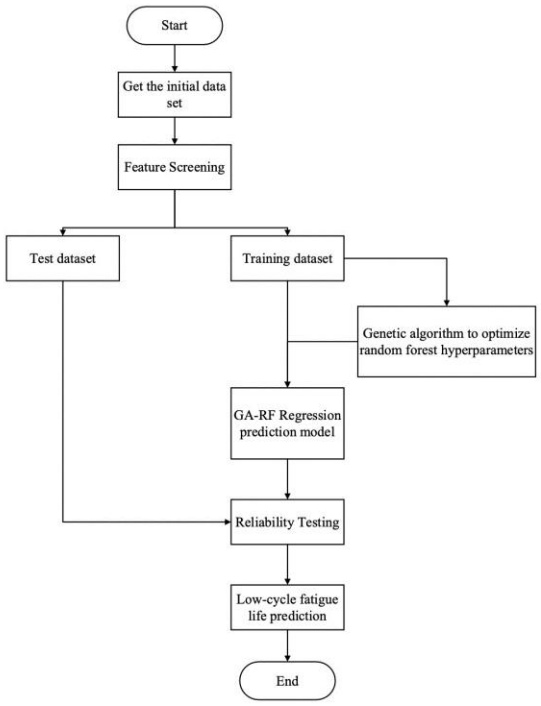


21: 2023/03305. 22: 2023/02/28. 43: 2023/05/29
51: G01N
71: CIVIL AVIATION FLIGHT UNIVERSITY OF CHINA
72: Luopeng XU, Rulun ZHANG, Mengquan HAO, Lei XIONG, Zhixin LI, Xiaoguang TU

54: A METHOD AND SYSTEM FOR PREDICTING LOW-CYCLE FATIGUE LIFE OF NICKEL-BASED SUPERALLOYS

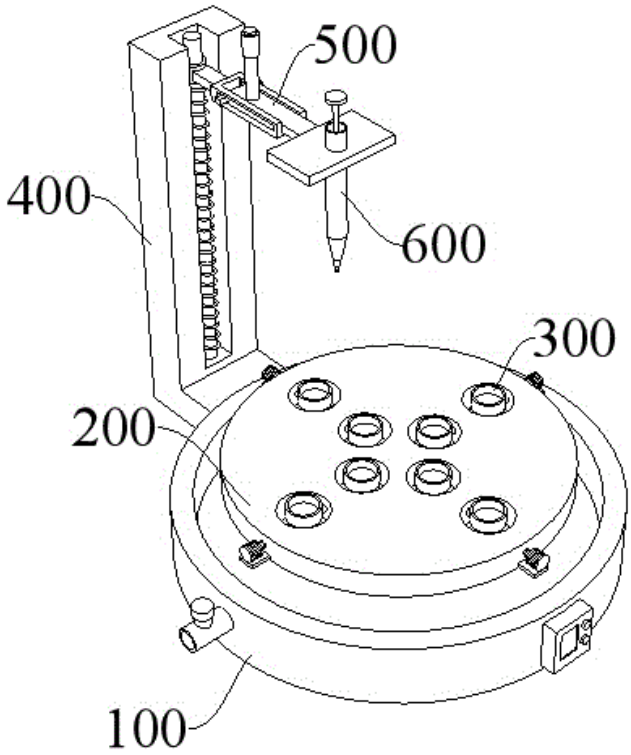
00: -

The present invention discloses a method and system for predicting low-cycle fatigue life of nickel-based superalloys in the field of low-cycle fatigue life prediction technology. Firstly, Pearson correlation coefficient and maximum information coefficient are used to screen the input features in the initial dataset, and the feature-selected initial dataset is divided into training set and testing set. Based on the training set, a GA-RF regression prediction model is constructed using random forest and genetic algorithm. The reliability of the model is tested using the testing set until the prediction accuracy reaches the preset condition, and the final GA-RF regression prediction model is obtained. The final GA-RF regression prediction model is used to predict the low-cycle fatigue life of the target nickel-based superalloy. The prediction model of the present invention has a short training time and can quickly and accurately predict the low-cycle fatigue life of nickel-based superalloys.



21: 2023/03306. 22: 2023/02/28. 43: 2023/05/29
51: C12M
71: Suzhou University
72: Guo Zhihua, Wang Cong, Qin Miao, Wang Hongyan, Wang Pengpeng, Liu Chengcheng, Zhang Yi
33: CN 31: 202310132438.4 32: 2023-02-08
54: A SOIL MICROBIAL DETECTION PETRI DISH
00: -

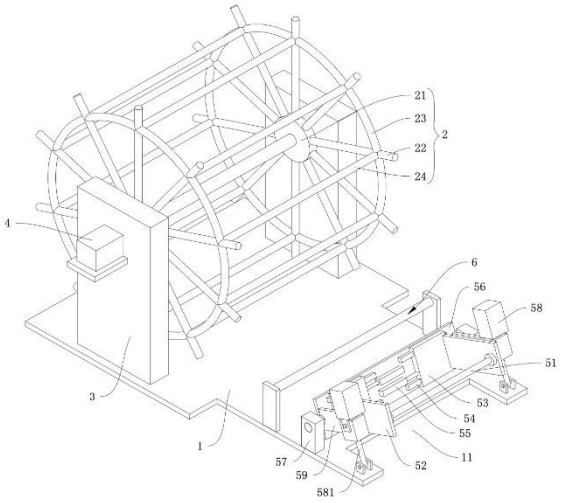
The present invention discloses a soil microbial detection petri dish, which relates to the technical field of petri dish. The present invention includes a drainage structure, a bearing platform structure, a main structure, an installation structure, a regulating structure and a dripping structure, the drainage structure includes a catchment round tank, the outer surface of the catchment round tank is provided with a mounting hole, the bearing platform structure includes a bearing plate, the bearing plate is provided above the catchment round tank , the main structure includes a petri dish body and a fixed ring cylinder, and the surface of the bearing plate is provided with a round slot. When the petri dish body needs to be cleaned in the present invention, the staff injects cleaning liquid into the inside of the petri dish body for cleaning, after that, the staff drives the servo motor through the controller, and then the servo motor drives the connecting shaft to rotate, and then drives the petri dish body to rotate 180 °, and then pours the cleaning liquid inside the petri dish body into the catchment round tank, and then the staff discharges the cleaning liquid inside the catchment round tank by opening the control valve, which is convenient and quick to operate.



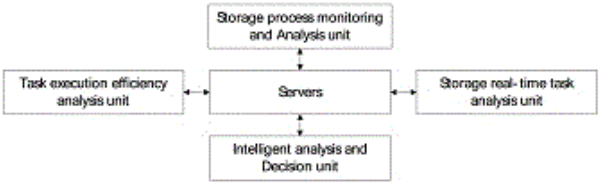
21: 2023/03310. 22: 2023/03/03. 43: 2023/05/29
51: B65H
71: ANHUI MED PUREST MEDICAL TECHNOLOGY CO., LTD.
72: LONG, Shushan
33: CN 31: 2022108668839 32: 2022-07-22
54: WINDING DEVICE FOR PRODUCING PROTECTIVE CLOTHING AND USING METHOD THEREOF
00: -

The present disclosure provides a winding device for producing protective clothing and a using method thereof. The winding device includes a rotating wheel, rotating brackets arranged at two ends of the rotating wheel, a motor arranged on one rotating bracket, and a discharging rack arranged at one side of the rotating wheel; the two ends of the rotating wheel are rotationally connected to the rotating brackets, and the motor is configured to drive the rotating wheel to rotate on the rotating brackets; and the discharging rack is configured to place a cloth

roll, so that the cloth roll rotates and discharges. In the present disclosure, cloth is wound on the rotating wheel by rotating the rotating wheel, and finally the cloth wound on the rotating wheel is cut along an axis direction of the rotating wheel by using a cutting tool. One of the cut cloth is dragged, so that the cloth wound on the rotating wheel is integrally dragged on a platform, and finally the cloth is simply finished to complete the cloth paving work. The present disclosure is efficient and quick to use, the cloth paving efficiency is effectively improved, and then the overall production efficiency of a workshop is improved.

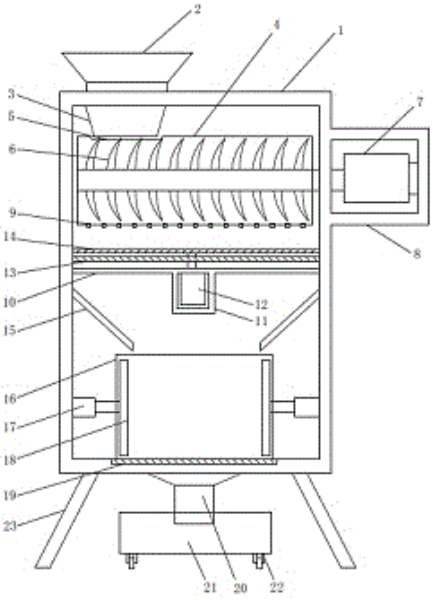


21: 2023/03408. 22: 2023/03/08. 43: 2023/05/18
51: G06Q
71: HENAN TAOGANG SUPPLY CHAIN INFORMATION TECHNOLOGY CO. LTD
72: TIAN, HUIBIN, TIAN, GENG, ZHANG, LI, ZHANG, BEI, WANG, LONGFEI, WANG, QIANG
54: INTELLIGENT STORAGE MANAGEMENT SYSTEM BASED ON THE INTERNET OF THINGS
00: -
The disclosure discloses an intelligent storage management system based on the Internet of things, which relates to the technical field of intelligent storage management, and solves the technical problems of failing to analyze the intelligent decision-making of the storage process and reducing the working efficiency of the storage process existing in the prior art. By analyzing the real-time task execution efficiency of the storage process, the invention determines whether the real-time task execution efficiency of the current storage process is qualified, and achieves the effect of ensuring the normal execution of the current task. The invention can reduce the execution risk of the storage process, improve the stability of the overall operation process, and ensure the progress efficiency of the operation process; The invention also makes intelligent analysis and decision on the storage process, while improving the intelligent performance of the storage process, it guarantees the operation efficiency of the storage process, and prevents the operation risk existing in the storage process from causing the abnormal execution of the storage process in the later stage, thus resulting in the substandard result of the overall operation process.

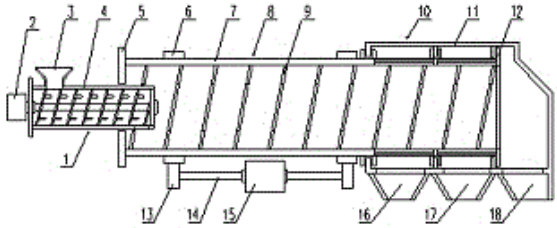


21: 2023/03409. 22: 2023/03/08. 43: 2023/05/18
51: B02C
71: ZHENGZHOU GULITE NEW MATERIAL CO., LTD.
72: LIU, XIXIAN, CUI, MENG
54: RAW MATERIALS CRUSHING AND COLLECTING DEVICE FOR WELDING FLUX PRODUCTION
00: -
A raw material crushing and collecting device for welding flux production is provided. The device body includes a feed inlet, a feed hopper is arranged below the feed inlet, a mixing bucket is arranged below the feed hopper, a mixing blade is arranged in the mixing bucket. The mixing blade is connected with the first motor through a rotary shaft, the first motor is fixed in the first fixed box, the mixing bucket includes a mixing bucket inlet, and the bottom of the mixing bucket defines a leakage hole. A fixed frame is set in the middle of the device body, a second fixed box is set on the fixed frame, a second motor is set inside the second fixed box. A lower grinding plate and an upper grinding plate are set on the rotating shaft of the second motor. A baffle is set below the fixed frame, a pressing plate is set in the pressing plate box, the pressing plate is connected with the hydraulic press, the hydraulic press is fixed on the inner wall of the device body, and a discharge

port is set at the bottom of the pressing plate box, a collecting box is arranged below the discharge opening.



21: 2023/03410. 22: 2023/03/08. 43: 2023/05/18
51: B01J
71: ZHENGZHOU GULITE NEW MATERIAL CO., LTD.
72: CUI, MENG, WANG, LINMAO
54: GRANULATION SCREENING DEVICE FOR SINTERED FLUX
00: -
A granulation screening device for sintered flux; The utility model provided includes a conveying section, a granulating screen sub section and a collecting section. The conveying section includes a conveying cylinder, a conveying shaft arranged inside the conveying cylinder, and a spiral conveying plate arranged on the conveying shaft. The granulating screen section includes a granulating screen cylinder, the outer part of the granulating screen section is sleeved with a gear ring, the second motor is connected with a drive shaft rod, the drive shaft rod is connected with a drive gear, and the drive gear is meshed with the gear ring. A spiral ring plate is arranged on the inner wall of the granulating screen section, a first screening plate and a second screening plate are arranged on the cylinder wall of the right section of the granulating screen cylinder, and the pores of the first screening plate are smaller than those of the second screening plate. The collecting part includes a collecting box shell, and the bottom of the collecting box shell is provided with a first outlet box, a second outlet box and a third outlet box. The invention has reasonable structure and convenient use, can realize continuous production and improve production efficiency.



21: 2023/03442. 22: 2023/03/09. 43: 2023/05/29
51: E01C
71: FENG, Zhenhe
72: FENG, Zhenhe
54: A CURING AGENT BASED ON SOLID WASTE SOIL AND A PREPARATION METHOD THEREOF
00: -
The present invention discloses a curing agent based on solid waste soil, which comprises the following components in parts by weight: 50-60 parts of solid waste soil, 15-20 parts of 8-10mm stone, 10-20 parts of 05 stone, 0.2-0.3 part of curing agent. On the above basis, the present invention also discloses a preparation method of a curing agent based on solid waste soil. By using the curing agent and the preparation method, road construction materials can have better strength and frost resistance, the building materials can have higher strength and the digested solid waste soil can be utilized maximally.

21: 2023/03555. 22: 2023/03/14. 43: 2023/06/05
51: D03D
71: ANHUI HUAYE ADVANCED MATERIALS CO,. LTD, TONGXIANG YILI SILK WEAVING CO., LTD
72: JIANG, Xinrong, ZHU, Zehe, ZHOU, Yechang
33: CN 31: 202210460275.8 32: 2022-04-28
54: A THREE-DIMENSIONAL WOVEN RUBBER REINFORCED FIBER COMPOSITE MATERIAL, A PREPARATION METHOD AND AN APPLICATION THEREOF
00: -
The present invention belongs to the technical field of woven fabrics. The present invention provides a three-dimensional woven rubber reinforced fiber composite material, which comprises main warps, surface warps and wefts; The main warps are

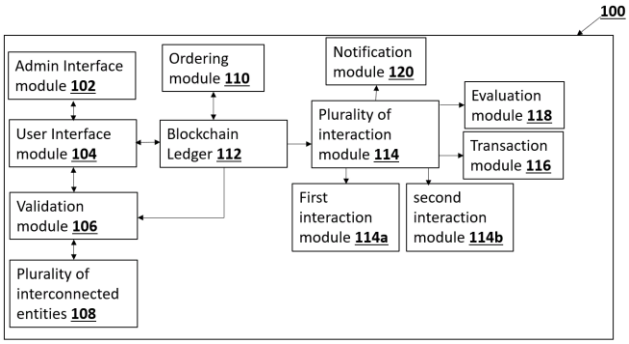
polyester industrial filaments with a density of 146-201ends/10cm; The surface warps are polyester industrial filaments, nylon industrial filaments or aramid filaments with a density of 70-103ends/10cm; The wefts are polyester industrial filaments with a density of 7-11.5ends/10cm. According to the present invention, the industrial filaments are adopted as a weaving material, so that the delaminating of the rubber conveyor belt is effectively avoided, the product has excellent high-temperature aging resistance and bonding strength, and the impact resistance and tear resistance of the rubber conveyor belt taking the fabric as a skeleton layer are improved. The present invention also provides a preparation method of the composite material. The composite material can be obtained by gum dipping, rolling, drying and shaping of a fabric. The preparation method provided by the present invention is simple, low in process requirement and suitable for large-scale preparation.

21: 2023/03630. 22: 2023/03/16. 43: 2023/05/29
51: G06N
71: National Institute of Technology Calicut, Dr. Vamadevan Pillai Madhusudanan Pillai, Dr. Hiran Viswanath, Justin Sunny, Kenil Shah, Prajwal Pandurang Ghoradkar, Manu Jose Philip, Malhar Shirswar
72: Dr. Vamadevan Pillai Madhusudanan Pillai, Dr. Hiran Viswanath, Justin Sunny, Kenil Shah, Prajwal Pandurang Ghoradkar, Manu Jose Philip, Malhar Shirswar

54: A SYSTEM AND METHOD FOR TRAINING USERS ON DECENTRALISED SUPPLY CHAIN INFORMATION SHARING

00: -

A system (100) and a method (200) for training users on decentralized supply chain information sharing, comprises of: a admin interface module (102) for assigning an admin to interact with a plurality of user by deploying a smart contract; a validation module (104) for validating the plurality of user for proper authentication by a public address; a plurality of interconnected entities (106) for receiving order and shipment of the received order through the smart contract, access a plurality of details; an ordering module (108) for placing an order which is stored in a blockchain with a transaction hash, wherein if the transaction succeeds, an order confirmation notification is generated, wherein the transaction is updated in the smart contract and the order is shipped; and a ledger (110) for recording an inventory-related information such as availability of stocks, current state of ordered items and transactions.

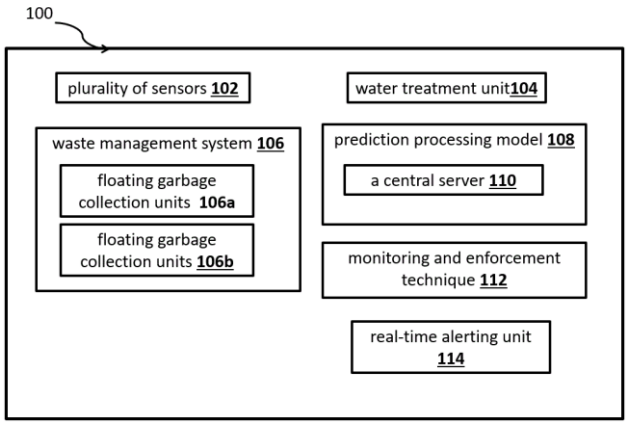


21: 2023/03666. 22: 2023/03/17. 43: 2023/05/29
51: B63B
71: Dr. Vivek, National Institute of Technology (NIT)
72: Dr. Vivek

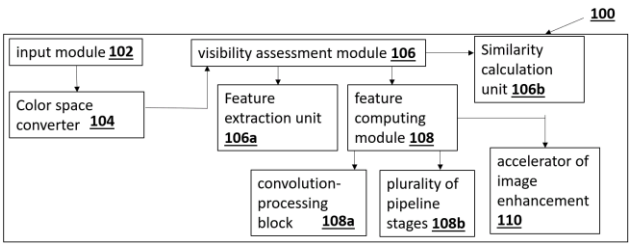
54: A SYSTEM AND METHOD FOR REDUCING THE POLLUTION IN LAKES AND MAINTAINING ECOSYSTEM OF LAKES

00: -

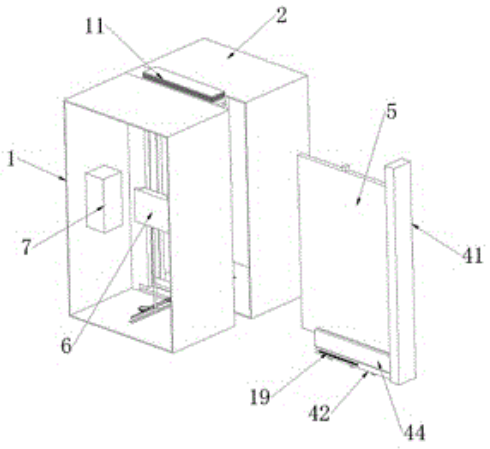
The present disclosure relates to a system and method for reducing the pollution in lakes and maintaining ecosystem of lakes. In the present disclosure, a system and method is provided for reducing pollution in lakes that is caused by untreated sewage and solid waste disposal, and thereby maintaining a sustainable ecosystem of lake. The present invention includes physical and biological processes for this purpose. The proposed invention includes a network of sensors placed in strategic locations to monitor water quality, a treatment plant designed to remove harmful substances from the water, and a waste management system designed to address the problem of solid waste disposal. Also, a monitoring and enforcement mechanism that is designed to prevent further encroachment and to restore the lake's ecological balance Furthermore, in case of any risk in water quality, an alert is sent to the respective person via selected communication channels.



21: 2023/03668. 22: 2023/03/17. 43: 2023/05/29
51: H04N
71: Anmol Jain, Prof. Brij Mohan Singh, Dr. Mridula Singh
72: Anmol Jain, Prof. Brij Mohan Singh, Dr. Mridula Singh
54: A SYSTEM FOR VIDEO SEQUENCE ACCELERATOR BY SIMILARITY LEVEL PREDICTION
00: -
A system (100) for video sequence accelerator by similarity level prediction, comprises of: an input module (102) for taking a colored raw image; a color space converter (104) for converting the colored raw image into a YUV; a visibility assessment module (106) for extracting a plurality of features based on similarity calculation and similarity level prediction through minimum maximum likelihood decoding (MLD) searching; a feature computing module (108) for reducing hardware- resource usage by calculating a tenengrad and a contrast-energy feature related to a gradient; and an accelerator of image enhancement (110) for enhancing quality of the image by performing a histogram accumulation, a compact disc file (CDF) calculation, and an interpolation that synchronizes with a working frequency of the luma (Y) channel.



21: 2023/03707. 22: 2023/03/20. 43: 2023/05/18
51: G01N
71: JIANGSU VOCATIONAL INSTITUTE OF ARCHITECTURAL TECHNOLOGY
72: TIAN, GUOHUA, LIU, PENG, LI, REN, ZHANG, LIJUAN, MIAO, ZHENGKUN, WANG, DONG
33: CN 31: 202210695992.9 32: 2022-06-20
54: APPARATUS FOR TESTING UNSTEADY HEAT TRANSFER CHARACTERISTIC OF WALL
00: -
The present disclosure discloses a testing apparatus for unsteady heat transfer through a wall, which includes a hot box and a cold box, and a test piece frame installed between the hot box and the cold box. The test piece frame includes a U-shaped fixing frame and a movable supporting frame. Both sides of the U-shaped fixing frame are sealedly connected with the hot box and the cold box, and the wall is assembled on the movable supporting frame, and is inserted into or separated from the U-shaped fixing frame through an opening of the U-shaped fixing frame, that is, the wall can be pushed into the hot box and the cold box to perform a test operation of heat transfer characteristic, or separated from the hot box and the cold box. Moreover, under the action of a driving part, a driven part and a linkage part, when the wall enters the hot box and the cold box, monitoring boards can be driven to move towards the wall, and automatically attach to the wall for temperature monitoring. When the wall moves away from the hot box and the cold box, the two monitoring panels can automatically reset away from the wall to improve the sealing of the hot box and the cold box, without a need to reserve a window for manual entry into the hot box and cold box for an attaching operation, which is more convenient and reliable to use.

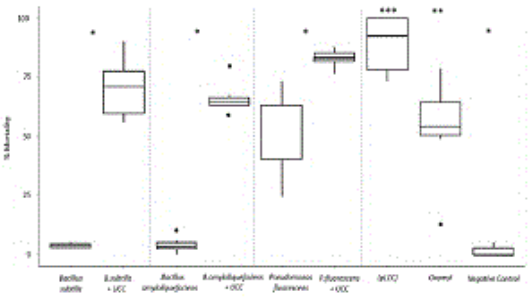


21: 2023/03733. 22: 2023/03/22. 43: 2023/05/18
51: A01G, A01N, A01P, C05D
71: ORO AGRI EUROPE S.A.
72: PULLEN, CAROL, MONTEIRO, SARA ALEXANDRA VALADAS SILVA, MALEK, ROBERT, IBRAHIM, AYA, MARAIS, CHARL GUILLAUME, BERG, PAULO SERGIO
33: ZA 31: 2022/03278 32: 2022-03-22

54: AGRICULTURAL COMPOSITION

00: -

This disclosure relates to an agricultural composition. Particularly, the disclosure relates to an agricultural carrier composition. Further particularly, this disclosure relates to agricultural carrier compositions that may be loaded with at least one antipathogenic agent and/or at least one biocontrol agent and/or fertilizer agent and/or biostimulant agent and/or an elicitor agent and/or a plant growth regulator and/or an insect repellant. The disclosure extends to methods of manufacturing the aforementioned. The agricultural composition may comprise a (C_2– C_{26}) alkyl lactate and/or derivate thereof, a (C_2-C_{22}) alcohol, a humectant; and a non-ionic and/or anionic surfactant. The agricultural composition may further include a binder, therein provided an agricultural carrier composition. The agricultural carrier composition may further be loaded with at least one antipathogenic agent and/or at least one biocontrol agent and/or fertilizer agent and/or biostimulant agent and/or an elicitor agent and/or a plant growth regulator and/or an insect repellant.

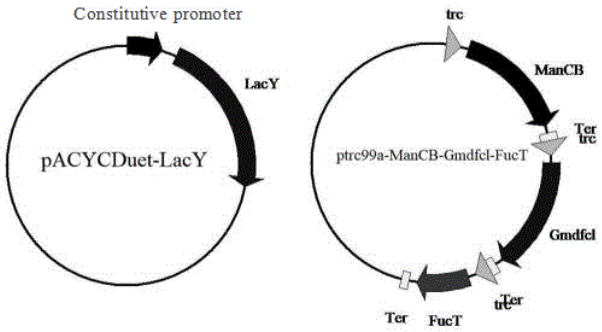


21: 2023/03734. 22: 2023/03/22. 43: 2023/06/05
51: C12N
71: Richen Bioengineering Co, Ltd
72: Xia Hongzhi, Xu Zheng, Chu Chenghui, Li Guyue, Niu Kun, Li Jiangbo, Sun Yi, Yang Chenliang, Zhang Jianhong, Zhu Yulei

54: STRAIN FOR SYNTHESIZING 2'-FUCOSYLLACTOSE WITH GLUCOSE AS CARBON SOURCE, CONSTRUCTION METHOD AND APPLICATION THEREOF

00: -

The invention provides a strain for synthesizing 2'-fucosyllactose with glucose as carbon source, a construction method and an application thereof, and belongs to the technical field of bioengineering. The strain is obtained by co-transforming recombinant plasmids pACYCDuet-J23115-LacY and ptrc99a-ManCB-Gmdfcl-FucT into Escherichia coli. The strain provided by the invention uses glucose as carbon source to synthesize 2'-fucosyllactose with a yield of 3.2 g/L.



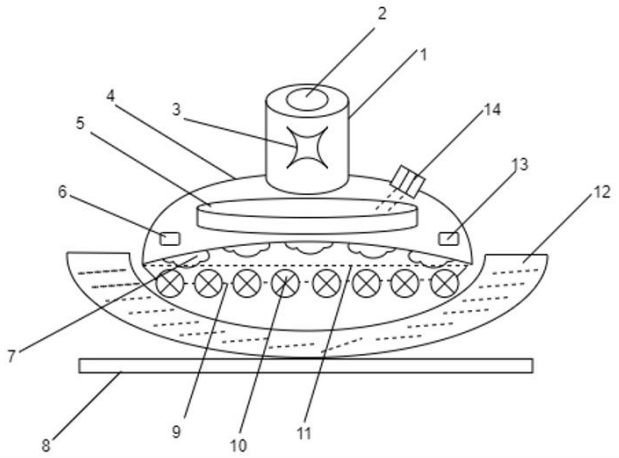
21: 2023/03753. 22: 2023/03/22. 43: 2023/06/05
51: A61M; G06F
71: SHENZHEN PEOPLE'S HOSPITAL, ZHANG, Jianglin
72: ZHANG, Jianglin, QI, Min, WANG, Chong
33: CN 31: 202210161424.0 32: 2022-02-22

54: PRURITUS RELIEVING DEVICE FOR DERMATOLOGICAL PATIENT

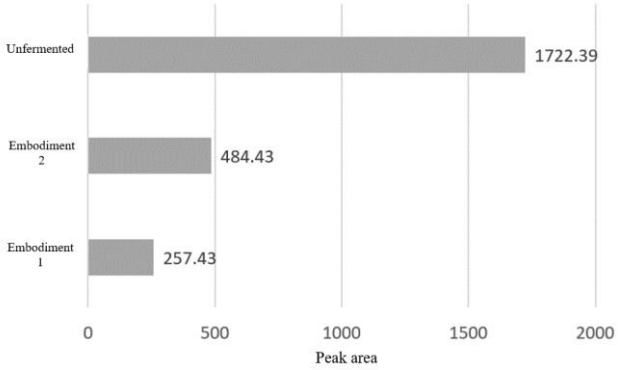
00: -

The present invention belongs to the technical field of medical equipment, and discloses a pruritus relieving device for dermatological patient. The pruritus relieving device for dermatological patient comprises a device handle, a liquid medicine control button, a rolling pressing control button, a device shell, a liquid medicine storage, a power supply device, a liquid medicine spraying head, a placer base, a second support, a rolling pressing head, a first support, a placer, a motor driver, a liquid medicine pouring opening, a copper inner wall, an ice water inlet and outlet and an asbestos board outer wall. According to the present invention, the affected area of a patient is pressed by pressing the rolling pressing head at a low temperature, so that

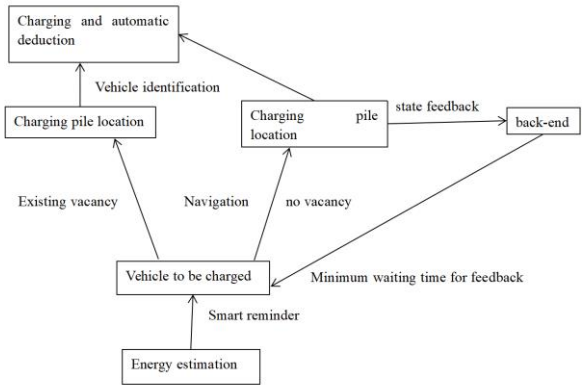
the pruritus of the patient is more effectively relieved and the skin of the patient is not scratched; secondly, vaporific liquid medicine sprayed through the liquid medicine spraying head is sprayed to the affected area, and large-area contact is achieved, so that the liquid medicine in the vaporific state can be easily absorbed by the skin, the pruritus symptom of the patient can be relieved and treated more easily, and the present device is easy and convenient to operate, easy to carry and capable of being popularized in a large range.



21: 2023/03809. 22: 2023/03/24. 43: 2023/06/05
51: C12N
71: SOHAO FD-TECH CO., LTD., SHANDONG SEARSPORT BIO-TECH CO., LTD., QINGDAO SINALYZE CO., LTD., QING DAO GUAN TONG BIO-TECH CO., LTD.
72: YU, Wanshuai, KONG, Qing, YU, Dongxing, DAI, Mingtao, LIU, Yongjian, LIU, Yongwen, CHEN, Chen, LIU, Jiaming, GAO, Liping, LIU, Hui, SONG, Lin, REN, Hao, GUO, Mengyang, MU, Haijin
54: AN APPLICATION OF LACTIC ACID BACTERIA IN DEGRADING AMYGDALIN IN CERASUS HUMILIS(BGE.) SOK KERNELS
00: -
The present invention discloses a new use of lactic acid bacteria, namely a method of applying lactic acid bacteria in the degradation of amygdalin in Cerasus humilis(Bge.) Sok kernels. The use of lactic acid bacteria for the fermentation and degradation of amygdalin has the advantages of low raw material cost and high degradability, and is of high commercial application value. Cerasus humilis(Bge.) Sok kernels are rich in nutrients which can be used directly for fermentation; in addition, the method of degrading amygdalin of the present invention is simple and can retain the nutrient content of Cerasus humilis(Bge.) Sok kernels to the greatest extent, so after fermenting and degrading the amygdalin in them, the Cerasus humilis(Bge.) Sok kernels can still be used as a food supplement. Therefore, the present invention has broad commercial application prospects.



21: 2023/03895. 22: 2023/03/28. 43: 2023/05/29
51: B60L
71: Xinyu university
72: Li Ling, Wang Qing
33: CN 31: 202310219829.X 32: 2023-03-09
54: INTELLIGENT ELECTRIC VEHICLE CHARGING PILE RECOMMENDATION SYSTEM AND METHOD
00: -
The invention provides an intelligent electric vehicle charging pile recommendation system and an intelligent electric vehicle charging pile recommendation method, and relates to the technical field of electric vehicles. An intelligent electric vehicle char pile recommendation system comprises a data proces module, a vehicle electric quantity monitoring module, a charging estimation module, a charging pile monitoring module, an route planning module, an automobile information acquisition module, and a charging management module and an electric pile information acquisition module. By feeding back the information of going to the designated charging pile for charging to the back-end data storage position corresponding to the charging pile, other users can know the reservation condition of each charging pile in advance through the system.

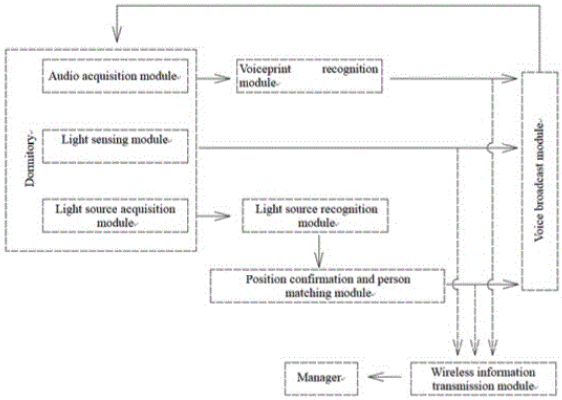


21: 2023/03897. 22: 2023/03/28. 43: 2023/05/29
51: H04N
71: BINZHOU POLYTECHNIC
72: JIAO, Shufeng, SU, Shan, ZHANG, Xiaoping

54: INTELLIGENT MANAGEMENT SYSTEM FOR STUDENT DORMITORY

00: -

The present invention discloses an intelligent management system for a student dormitory, including an audio acquisition module, configured to acquire sounds in the dormitory; a voiceprint recognition module, configured to recognize voiceprints of the sounds acquired by the audio acquisition module, where the voiceprint recognition module stores voiceprint information of each person in the dormitory and a corresponding name therein; and a voice broadcast module, configured to broadcast a prompt sound containing the name of the person from who the sound is from after the voiceprint recognition module determines a source of the sound. The management system of the present invention may ease a workload of a manager, improve the efficiency and the accuracy of management and provide a safer and more comfortable living environment for dormitory staff.

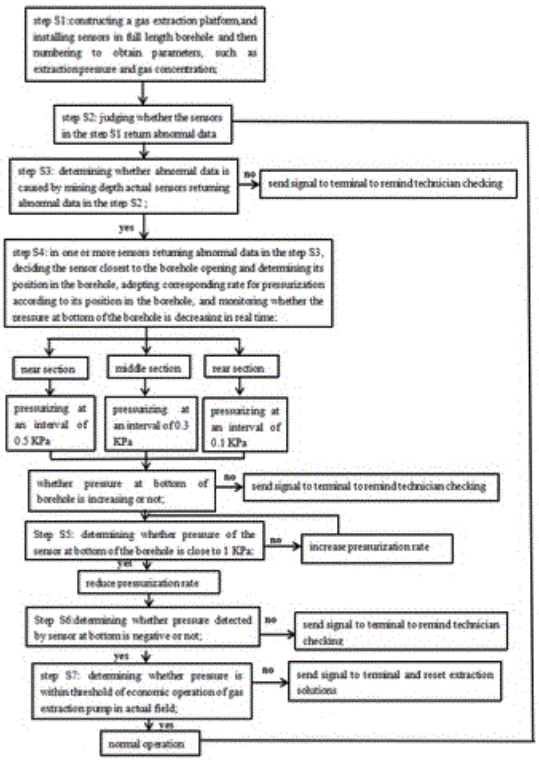


21: 2023/03898. 22: 2023/03/28. 43: 2023/05/29
51: E21F
71: HUNAN UNIVERSITY OF SCIENCE & TECHNOLOGY
72: Xun ZHAO, Pengfei WANG, Yutian WANG, Yong CHEN
33: CN 31: 202211164307.6 32: 2022-09-23

54: METHOD AND SYSTEM FOR GAS EXTRACTION THROUGH AUXILIARY DIRECTIONAL LONG BOREHOLE

00: -

The present invention relates to the technical field of gas extraction and discloses a method and a system for gas extraction through auxiliary directional long borehole, comprising: constructing a gas extraction platform through directional long borehole, judging a relationship between an abnormality and a mining depth according to abnormal data returned by a sensor and pressurizing the long borehole according to detection data, and judging the economical applicability. The method and system for gas extraction through directional long borehole of the present invention improves the matching degree between the negative pressure of gas extraction and the depth of the long borehole, and solves the problem of pressure loss in the middle and rear sections of the long borehole, which has high economical applicability, avoiding the disadvantages of high costs and low returns.

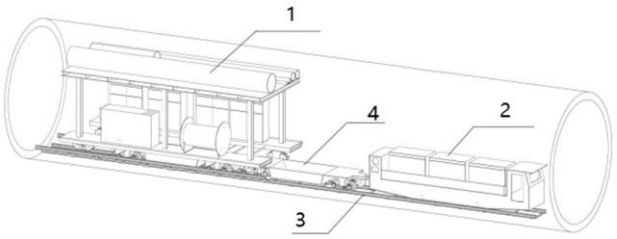


21: 2023/03899. 22: 2023/03/28. 43: 2023/05/29
51: E21D
71: CHINA RAILWAY FIRST GROUP CO., LTD., TRACK TRAFFIC ENGINEERING CO., LTD. OF CHINA RAILWAY NO. 1 GROUP
72: LIU, Jianwei, LI, Zhanwei, ZHANG, Yubao, WU, Jincheng, MAO, Zhixin, HE, Xiaodong, LIU, Yongqiang, YANG, Qian, HU, Kui, ZHANG, Xiaoning
33: CN 31: 2023100064712 32: 2023-01-04

54: DEVICE FOR RAPIDLY TRANSFERRING REAR SUPPORTING TROLLEY OF SHIELD MACHINE IN TUNNEL AND MANUFACTURING METHOD THEREFOR

00: -

The present invention discloses a device for rapidly transferring a rear supporting trolley of a shield machine in a tunnel and a manufacturing method therefor, and belongs to the technical field of building construction. The device comprises a battery locomotive; two slag hopper chassis, wherein the two slag hopper chassis are a first slag hopper chassis and a second slag hopper chassis, and the first slag hopper chassis and the second slag hopper chassis are sequentially connected to a rear side of the battery locomotive; a trolley, wherein the trolley is mounted on an upper side of the second slag hopper chassis; and H-shaped steels, wherein the H-shaped steels are provided between a bottom plate of the trolley and the second slag hopper chassis. The present invention is simple to operate, has no need to add other power, has good maneuverability, can stop to handle obstacles during the midway, and has strong practicability.

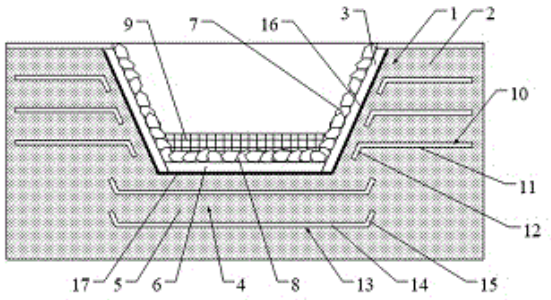


21: 2023/03963. 22: 2023/03/29. 43: 2023/05/18
51: E02B
71: CHINA HARBOUR ENGINEERING COMPANY LTD.
72: WANG, RONG
33: CN 31: 2022110086658 32: 2022-08-22

54: FLOOD DRAINAGE DITCH STRUCTURE

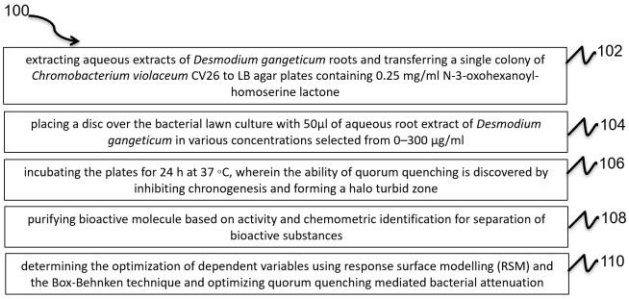
00: -

The present invention discloses a flood drainage ditch structure, comprising: a side slope structure comprising a side slope body and a first reinforced concrete plate covered on an inclined face of side slope body, wherein a first pad stone layer is laid on surface of first reinforced concrete plate, first pad stone layer is paved with stones and forms a slope surface of side slope structure; a ditch bottom structure comprising a ditch bottom body and a second reinforced concrete plate covered on surface of ditch bottom body, a second pad stone layer is laid on surface of second reinforced concrete plate, second pad stone layer is paved with stones and forms a ditch bottom of ditch bottom structure. The present invention can enhance the strength of flood discharge ditch, is conducive to reduce flood flow rate, and is easier for large wild animals to move, and is environmentally friendly.



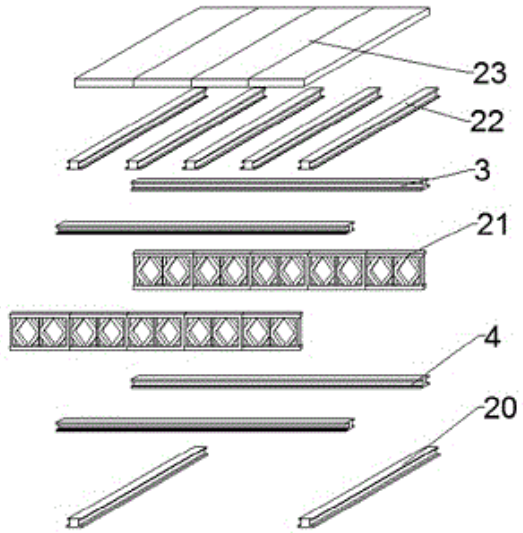
21: 2023/03989. 22: 2023/03/30. 43: 2023/06/05
51: C05F
71: Dr. Kayeen Vadakkan
72: Dr. Kayeen Vadakkan
54: A PROCESS FOR OPTIMIZING QUORUM QUENCHING-MEDIATED BACTERIAL ATTENUATION BY SIGNALLING INTERFERENCE
00: -

The present invention generally relates to a process for synthesizing anti-quorum sensing composition and optimizing quorum quenching mediated bacterial attenuation by indigenous plant Desmodium gangeticum by signalling interference comprises extracting aqueous extracts of Desmodium gangeticum roots and transferring a single colony of Chromobacterium violaceum CV26 to LB agar plates containing 0.25 mg/ml N-3-oxohexanoyl-homoserine lactone; placing a disc over the bacterial lawn culture with 50µl of aqueous root extract of Desmodium gangeticum in various concentrations selected from 0–300 µg/ml; incubating the plates for 24 h at 37◦C, wherein the ability of quorum quenching is discovered by inhibiting chronogenesis and forming a halo turbid zone; purifying bioactive molecule based on activity and chemometric identification for separation of bioactive substances; and determining the optimization of dependent variables using response surface modelling (RSM) and the Box-Behnken technique and optimizing quorum quenching mediated bacterial attenuation.

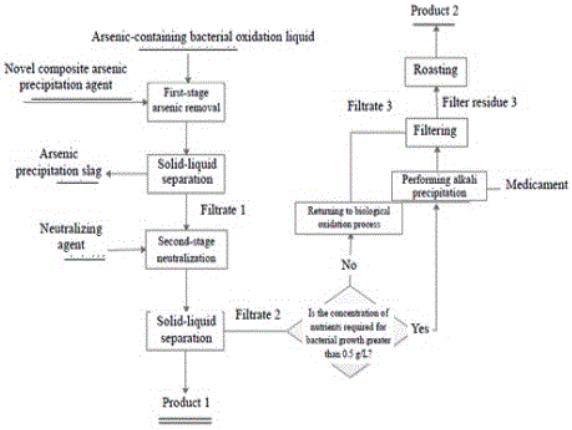


21: 2023/04055. 22: 2023/03/31. 43: 2023/05/18
51: E01D
71: CHINA HARBOUR ENGINEERING COMPANY LTD.
72: WANG, HONGXIANG
33: CN 31: 202210886891X 32: 2022-07-26
54: QUAY TYPE STEEL JETTY AND CONSTRUCTION METHOD THEREOF
00: -

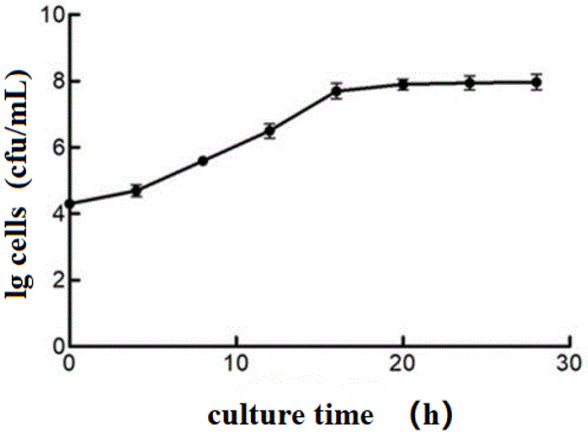
The present invention discloses a quay type steel jetty used for connecting hydraulic structures of port, comprising: a steel-pipe pile foundation, a lower crossbeam, a bailey beam, an upper crossbeam, a bridge deck, a pair of upper longitudinal beams and a pair of lower longitudinal beams extended synchronously along extension direction of steel jetty. A construction method includes: S1, connecting a guide frame at a front end of a working platform by upper and lower longitudinal beam; S2, moving guide frame to a predetermined position, hoisting steel-pipe pile by crawler crane, positioning by guide hole, and performing sinking and fixing of steel-pipe pile; S3, cutting excess steel-pipe pile, controlling to expand distance between guide cases to the minimum distance, sliding guide frame away from steel-pipe pile; S4, repeating S2-S3 to complete remaining construction. The present invention can weaken disassembly and assembly procedure of guide frame and improve construction efficiency.



21: 2023/04095. 22: 2023/04/03. 43: 2023/06/05
51: C22B
71: NORTHEASTERN UNIVERSITY
72: YANG, Hongying, CHEN, Yajing, TONG, Linlin
33: CN 31: 2022103841535 32: 2022-04-13
54: METHOD FOR TREATING ARSENIC-CONTAINING BACTERIAL LEACHATE
00: -
The present invention belongs to the technical field of water pollution treatment and resource recovery, and discloses a method for treating arsenic-containing bacterial leachate. The method comprises the following steps: firstly, performing first-stage arsenic removal on the arsenic-containing bacterial leachate with a composite arsenic precipitation agent to obtain arsenic precipitation slag and a filtrate 1; then performing second-stage neutralization on the filtrate 1 with a neutralizing agent to obtain a filtrate 2 and special-grade gypsum; recycling the filtrate 2 when magnesium ions in the filtrate 2 have a concentration of less than or equal to 0.5 g/L; and performing alkali precipitation on the filtrate 2 when magnesium ions in the filtrate 2 have a concentration of more than 0.5 g/L to obtain a filtrate 3 and a filter residue, recycling the filtrate 3, and recovering the filter residue after roasting. The above treatment method has the advantages of simple operation, low cost, simple process, short flow, stable arsenic precipitation slag, small slag amount, high purity of the desulfurization product gypsum, and high economic benefit. Two products are prepared based on performing arsenic removal on the arsenic-containing bacterial leachate: special-grade gypsum and magnesium oxide, which both have high application value.



21: 2023/04096. 22: 2023/04/03. 43: 2023/06/05
51: C12N
71: TIANJIN INNOORIGIN BIOLOGICAL TECHNOLOGY CO., LTD
72: HAN, Xuemei, LIANG, Wu, WANG, Haikuan
33: CN 31: 202210525330.7 32: 2022-05-16
54: APPLICATION OF INACTIVATED LACTOBACILLUS CASEI IOB-P9 POSTBIOTICS IN HYPOGLYCEMIC ASPECT
00: -
This application provides an application of inactivated Lactobacillus casei IOB-P9 postbiotics in hypoglycemic aspect. Where, the inactivated Lactobacillus casei IOB-P9 postbiotics is used for the preparation of diabetes relief products. The Lactobacillus casei IOB-P9 is deposited in the China General Microbiological Culture Collection Center, with the preservation number of CGMCC No.24195. The Lactobacillus casei IOB-P9 strain obtained by the invention has high activity, and the Lactobacillus casei IOB-P9 postbiotics obtained by the invention can effectively delay and control the occurrence and development of type II diabetes, and can be used to prepare products for diabetics.

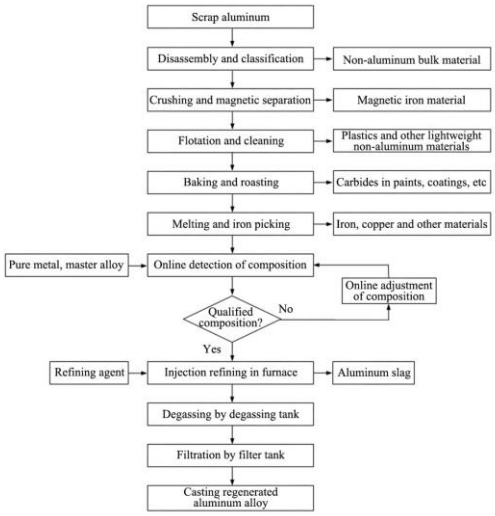


21: 2023/04124. 22: 2023/04/04. 43: 2023/06/05
51: A61K
71: Yongming LIU
72: Yongming LIU
54: A FORMULA OF PLANT GINSENG CORDYCEPS SINENSIS ANTI PEELING AND BLACK HAIR SHAMPOO
00: -
The present invention relates to the field of bathing supplies, Specifically, it is a formula of plant ginseng cordyceps sinensis anti peeling and black hair shampoo, characterized by, made from the following parts by weight of raw materials：ginger 10-20 parts、ginseng 4-12 parts、5-15 portions of Angelica sinensis、1-4 parts of Cordyceps sinensis、5 to 15 portions of Drynaria、5-20 parts of dandelion、3-10 portions of Ganoderma lucidum、10-20 parts of Platycladus orientalis leaves、6-16 portions of black sesame、portulaca oleracea 8-14 portions、6-20 portions of black mulberry fruits、4-20 parts of Ligustrum lucidum、5-15 parts of Chinese honey locust、Methylisothiazolinone 0.05-0.1 parts、6-14 parts of foaming agent、4-12 parts of surfactant、Acid-base regulator 0.5-5 parts and distilled water。The formula of the present invention is mild and non irritating. The formula of the invention is mild and non irritating, Through tonifying, activating blood circulation, and antibacterial effects, the scalp, hair, and hair follicles receive sufficient nutrition, improve hair roots and autoimmune function, effectively prevent hair loss, moisturize, black hair, and protect hair。

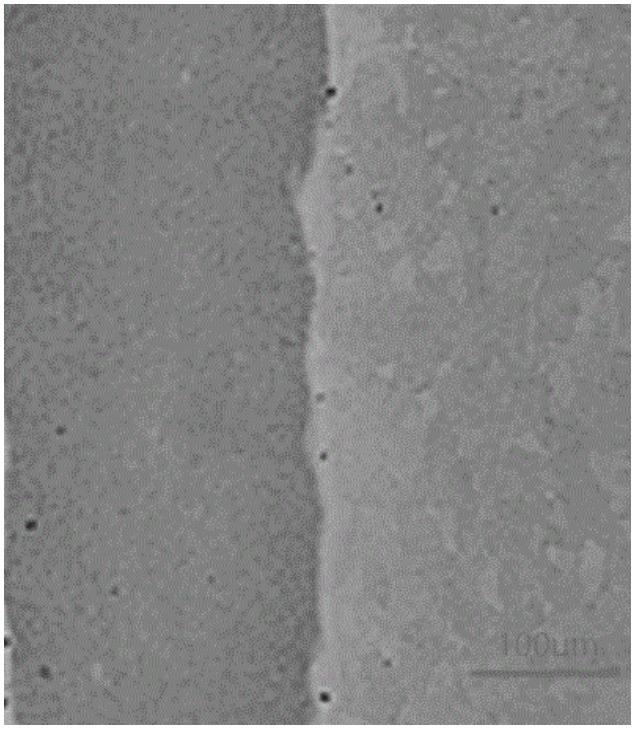
21: 2023/04125. 22: 2023/04/04. 43: 2023/06/05
51: C12N
71: TIANJIN INNOORIGIN BIOLOGICAL TECHNOLOGY CO., LTD
72: LIANG, Wu, HAN, Xuemei, WANG, Haikuan, SUN, Yunqi
33: CN 31: 202210571582.3 32: 2022-05-25
54: LACTOBACILLUS FERMENTUM IOB802 AND APPLICATION THEREOF IN IMPROVING SLEEP DISORDER
00: -
This disclosure relates to the technical field of biological fermentation, in particular to Lactobacillus fermentum IOB802 and an application thereof in improving sleep disorder. The Lactobacillus fermentum IOB802 was deposited in the China General Microbiological Culture Collection Center with the address of Institute of Microbiology, Chinese Academy of Sciences, No. 3, Yard 1, Beichen West Road, Chaoyang District, Beijing, on August 5, 2021. The post code is 100101 and the preservation number is CGMCC No. 23120. The strain provided by the invention is beneficial to digestion and absorption of a human body, and has the effects of soothing nerves and prolonging sleep time. Therefore, the disclosure also provides an application of the Lactobacillus fermentum IOB802 bacterial powder in the preparation of a composition for inhibiting bacteria, and an application of the Lactobacillus fermentum IOB802 bacterial powder in preparation of products for improving sleep disorder.

21: 2023/04279. 22: 2023/04/11. 43: 2023/06/05
51: C22B
71: GUANGDONG ENGINEERING POLYTECHNIC COLLEGE, GUANGDONG HONGBANG METAL ALUMINUM INDUSTRY CO., LTD
72: CHEN, Xuewen, KUANG, Zhiquan, YANG, Zhenjiang, HE, Jingnan, ZHU, Haidong, WANG, Shuncheng
33: CN 31: 202211649833.1 32: 2022-12-21
54: PRETREATMENT AND SMELTING REGENERATION METHOD FOR SCRAP ALUMINUM
00: -
The present invention discloses a pretreatment and smelting regeneration method for scrap aluminum, the main points of its technical solution are: S1. disassembly, classification; S2. crushing, magnetic separation; S3. flotation, cleaning; S4. baking, roasting; S5. melting, iron picking; S6. composition detection and adjustment; S7. injection refining; S8.

online degassing and filtration; S9. casting; through pretreatment of disassembly and classification, crushing and magnetic separation for iron removal, flotation and cleaning, and baking and roasting for scrap aluminum, the present invention greatly reduces content of non-aluminum substances in the scrap aluminum, reduces burning loss of aluminum during smelting, improves recovery rate of the aluminum, solves a problem of difficult alloy composition control, and makes it easier for the scrap aluminum to obtain regenerated aluminum alloy with the required compositions.

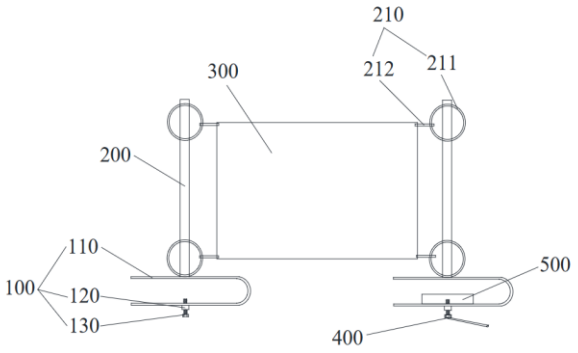


21: 2023/04599. 22: 2023/04/20. 43: 2023/06/02
51: C22C
71: HUNAN XIANGTOU LIGHT MATERIAL TECHNOLOGY CO., LTD.
72: LIU, Chunxuan, QIU, Jinwen, JIANG, Zhaoru, WU, Yun, ZHANG, Yang, ZHANG, Jie, CAO, Liuxu, QIU, Zhenyu, LUO, Ren
33: CN 31: 202011374650.4 32: 2020-11-30
54: IRON-ALUMINUM ALLOY COMPOSITE-REINFORCED ALUMINUM-BASED MATERIAL, AND PREPARATION METHOD AND USE THEREOF
00: -
The present disclosure relates to an iron-aluminum alloy composite-reinforced aluminum-based material, and a preparation method and use thereof. The material includes an aluminum-based alloy layer, a Fe3Al alloy layer metallurgically bonded with the aluminum-based alloy layer, and a FeAl alloy layer metallurgically bonded with the Fe3Al alloy layer. The Fe3Al alloy layer includes a Fe3Al phase and a ZrB2 phase, and the FeAl alloy layer includes a FeAl phase, a B phase, and an Al2O3 phase. The iron-aluminum alloy composite-reinforced aluminum-based material has excellent high-temperature mechanical properties, corrosion resistance, and wear resistance of an iron-aluminum intermetallic compound, and retains high thermal conductivity and light weight of an aluminum-based alloy. The material is used to prepare a brake disc for high-speed rail transit, can greatly reduce production costs, and can significantly increase a service temperature and a service life of the brake disc.

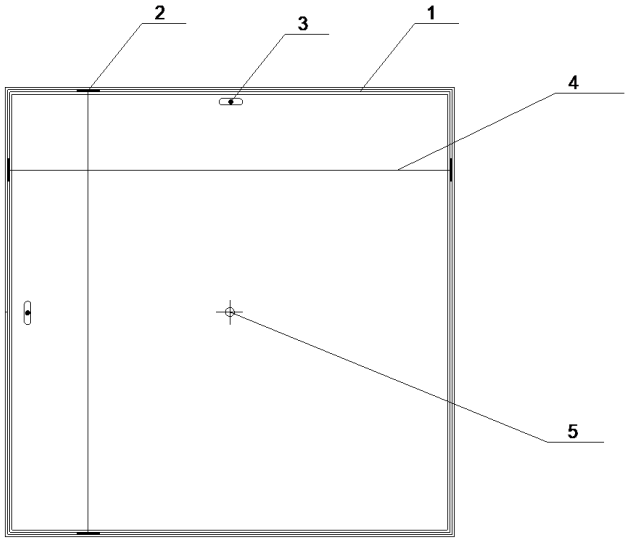


21: 2023/04843. 22: 2023/04/28. 43: 2023/06/02
51: E04G; E04H
71: China Construction Second Engineering Bureau Shenzhen Construction Investment Development Co., Ltd, THE FIRST CONSTRUCTION ENGINEERING COMPANY LTD. OF CHINA CONSTRUCTION SECOND ENGINEERING BUREAU
72: Sheng ZHAN, Chi ZHANG, Kaimao XIAO, Yangzong XING, Mingqi LI
33: CN 31: 202221039032.9 32: 2022-04-28
54: A SIDE GUARDRAIL
00: -
The embodiment of the present disclosure discloses a side guardrail, relates to the technical field of building equipment. The side guardrail comprises a

base and a rod, the rod is fixed on one side of the base. The base comprises a U-shaped plate, a threaded pipe and an tensioner, the threaded pipe is arranged on one side of the U-shaped plate, and the tensioner is arranged on the other side of the U-shaped plate. The tensioner is provided with threads corresponding to the threaded pipe, and the tensioner can be screwed into the threaded pipe. And an effect of quickly assembling/disassembling the protective rod is achieved.

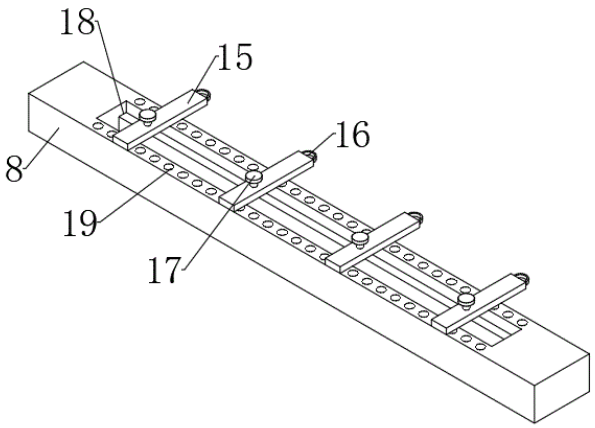


21: 2023/04993. 22: 2023/05/05. 43: 2023/06/02
51: E04B; E04G
71: THE FIRST CONSTRUCTION ENGINEERING COMPANY LTD. OF CHINA CONSTRUCTION SECOND ENGINEERING BUREAU
72: HAISONG YIN, BIN ZHANG, ZELAN LI, ZHONGYANG YU, DA LI, XUEMEI LIU, YUANJUN ZHANG
33: CN 31: 202222479379.1 32: 2022-09-19
54: A FAST POSITIONING DEVICE FOR ANCHOR BARS OF EMBEDDED PARTS OF COMPLEX NODES
00: -
The present disclosure provides a fast positioning device for anchor bars of embedded parts of complex nodes. The fast positioning device comprises a supporting frame, a positioning part and a recording part. The positioning part is located on the supporting frame and provided with at least two position finding gauges which are arranged in a crossed mode and can move respectively, and the at least two position finding gauges move to achieve alignment and alignment of the crossed position of the position finding gauges and the anchor bar in the vertical direction. The recording part is arranged on the supporting frame in the vertical alignment direction of the position finding gauge on the anchor bar and used for recording the cross position of the position finding gauge. According to the fast positioning device for the embedded part anchor bars, the anchor bars are inserted into the nodes in advance, positioning measurement is carried out, the anchor plates are machined according to the measured positions of the anchor bars, and on-site welding construction is carried out, so that the problem that the embedded parts are difficult to install at the complex nodes where the steel bars are densely distributed is solved, the construction quality and the construction efficiency are improved, and the on-site construction difficulty is reduced.

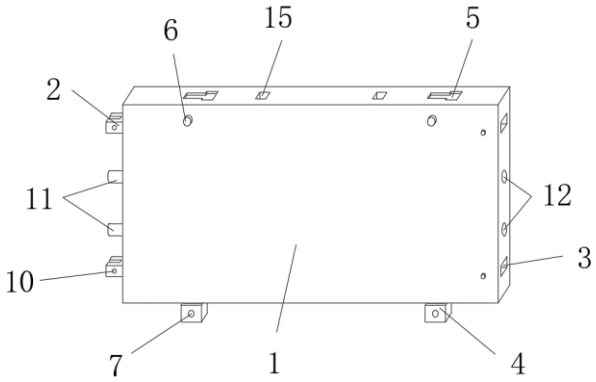


21: 2023/04994. 22: 2023/05/05. 43: 2023/06/02
51: A01G
71: THE FIRST CONSTRUCTION ENGINEERING COMPANY LTD. OF CHINA CONSTRUCTION SECOND ENGINEERING BUREAU, CHINA CONSTRUCTION SECOND ENGINEERING BUREAU LTD.
72: DIDONG CHEN, XIAOLIANG ZHANG, SHOUWEN LI, ZHUXIANG ZHAO, ZHIPENG GONG, LIANGWEI YU
33: CN 31: 202210549540.X 32: 2022-05-20
54: COMBINED LIGHT ECOLOGICAL PLANTING BOX FOR ROOF GREENING
00: -
The invention provides a combined light ecological planting box for roof greening, and relates to the technical field of planting boxes. The combined light ecological planting box for roof greening includes a box body, a filter plate is fixedly connected to the inner wall of the box body, sliding rails are fixedly connected to the left and right side walls of the box body, and the inside of the sliding rails is slidably

connected with a T-shaped block, and the top of the T-shaped block is fixedly connected with a containing barrel, and the containing barrel is located above the sliding rail, and the inside of the containing barrel is slidably connected with a support column, and a positioning component is arranged between the support column and the containing barrel. By setting sliding rails, T-shaped blocks, containing barrels, support columns, top plates, sliding cavities, sliding plates, extrusion cylinders, limit plates, connecting rods, fixing plates and fixing hooks, and using ropes to fix the branches of tomatoes or peppers on the fixing plate, make the fixing plate support the branch of tomatoes or peppers, so as to avoid the bending or breaking of the branches of tomatoes or peppers.

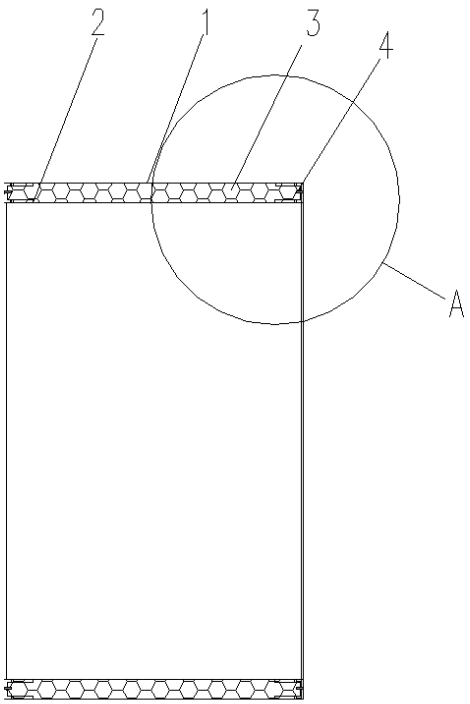


21: 2023/04995. 22: 2023/05/05. 43: 2023/06/02
51: E04B
71: THE FIRST CONSTRUCTION ENGINEERING COMPANY LTD. OF CHINA CONSTRUCTION SECOND ENGINEERING BUREAU
72: LI, ZELAN, YIN, HAISONG, ZHANG, CHANGHONG, HE, QUAN, AN, WEIDONG, WANG, JIAN, SUN, YUANXIA, WEI, XUEQI
33: CN 31: 202221506805.X 32: 2022-06-16
54: POSITIONING CONNECTION STRUCTURE OF A PREFABRICATED STRUCTURE
00: -
The present disclosure discloses a positioning connection structure of a prefabricated structure. The positioning connection structure comprises assembly structure main bodies, a connecting mechanism and a reinforcing mechanism, wherein the connecting mechanism is used for assembling and connecting a plurality of groups of assembly structure main bodies, and the reinforcing mechanism is used for improving the connecting firmness among the plurality of groups of assembly structure main bodies. According to the positioning and connecting structure of the assembly type structure, the first connecting pieces, the connecting blocks and the first connecting grooves are used in cooperation, the adjacent assembly structure bodies can be accurately positioned and connected in the horizontal direction, the first positioning rods and the first positioning holes are used in cooperation, and the adjacent assembly structure bodies can be fixed; second connecting pieces and second connecting grooves are used in cooperation, the adjacent assembly structure bodies can be accurately positioned and connected in the vertical direction, second positioning rods and second positioning holes are used in cooperation, and the connection firmness between the second connecting pieces and the assembly structure bodies can be improved. And concrete is not required to be poured for positioning connection in a construction site.



21: 2023/04996. 22: 2023/05/05. 43: 2023/06/02
51: F16L
71: THE FIRST CONSTRUCTION ENGINEERING COMPANY LTD. OF CHINA CONSTRUCTION SECOND ENGINEERING BUREAU, CHINA CONSTRUCTION SECOND ENGINEERING BUREAU LTD.
72: MIAO, BIN, DING, SHUO, GUO, JINBIN, CHANG, ZHEN, LV, ZHENXING, WANG, ZHANDONG, ZHANG, YUHANG, XUE, MIN, GAO, YUANDAN, WU, TONG
33: CN 31: 202221203298.2 32: 2022-05-19
54: AN AIR DUST INTEGRATED SLEEVE AND CONNECTION STRUCTURE FOR A FIREPROOF SECONDARY STRUCTURE WALL
00: -

The present disclosure provides an air dust integrated sleeve of a fireproof secondary structure wall and a connecting structure. The air dust integrated sleeve comprises a sleeve outer pipe and a sleeve inner pipe, and a flexible non-combustible material is filled between the sleeve outer pipe and the sleeve inner pipe. The countersunk rivet nut assembly comprises C-shaped steel and a countersunk rivet nut, one end of the C-shaped steel is connected with the sleeve outer pipe, the other end of the C-shaped steel is connected with the sleeve inner pipe, the countersunk rivet nut is arranged in a notch of the C-shaped steel, and the axial direction of the countersunk rivet nut is parallel to the axial direction of the sleeve inner pipe. In order to reduce the influence of the progress of a secondary structure on the installation of the air dust and improve the installation efficiency of the air dust, before the air dust is positioned and installed, a corresponding novel integrated sleeve is manufactured according to the material and the specification of the air dust, the sleeve is filled with a flexible non-combustible material to achieve the fire-resistant effect, the sleeve can be quickly connected with the air dust at a reserved hole, and convenience and rapidness are achieved.



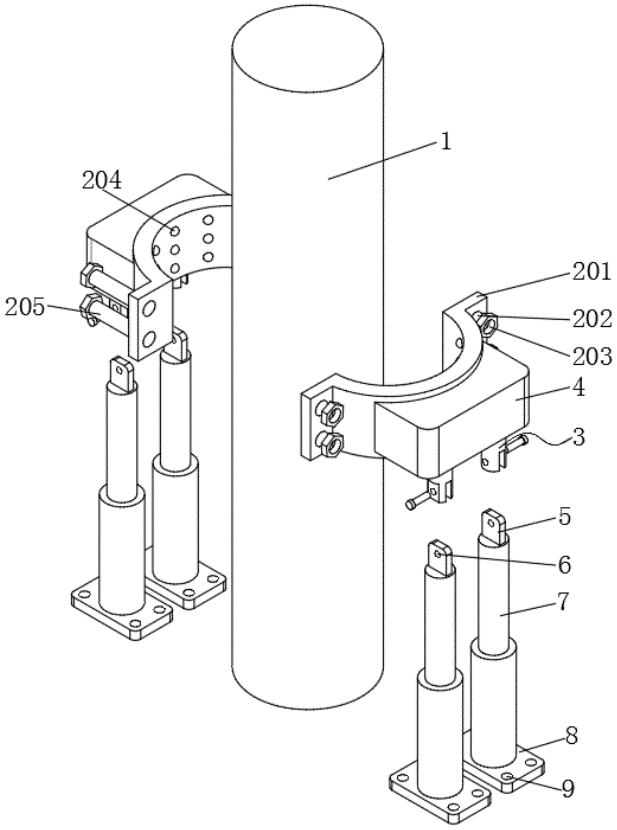
21: 2023/04997. 22: 2023/05/05. 43: 2023/06/02
51: E02D
71: China Construction Second Engineering Bureau Shenzhen Construction Investment Development Co., Ltd., THE FIRST CONSTRUCTION ENGINEERING COMPANY LTD. OF CHINA CONSTRUCTION SECOND ENGINEERING BUREAU
72: YU CHEN, GUIPENG LIN, GUANGYONG WU, YAQUAN DENG
33: CN 31: 202221262097.X 32: 2022-05-19

54: A FIXING AUXILIARY MECHANISM FOR CONSTRUCTION PILES

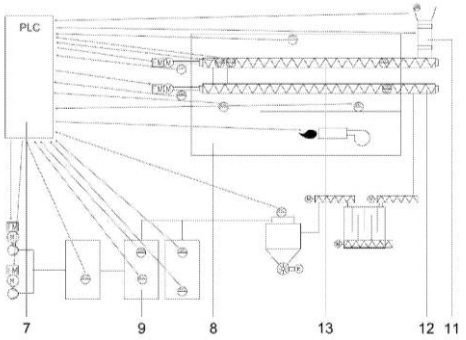
00: -

The present disclosure discloses a fixing auxiliary mechanism for construction piles, which comprises a construction pile body. A fixing mechanism is arranged on the outer side of the construction pile body, a connecting block is fixedly connected to the outer side of the fixing mechanism, a supporting mechanism is slidably connected to the interior of the connecting block, a cylinder is arranged at the bottom of the supporting mechanism. The present disclosure relates to the technical field of construction auxiliary equipment. According to the fixing auxiliary mechanism for the construction pile, two attaching blocks are attached to the outer side of the construction pile body, fixing bolts penetrate

through threaded holes in the two attaching blocks, then fixing nuts are connected to the outer sides of the fixing bolts in a threaded mode, and at the moment, a fixing mechanism can be fixed to the outer side of the construction pile body; and sliding friction between the construction pile body and the attaching block is converted into rolling friction through the rolling wheels, so that the construction pile body is not affected by friction of the attaching block in the downward moving process.

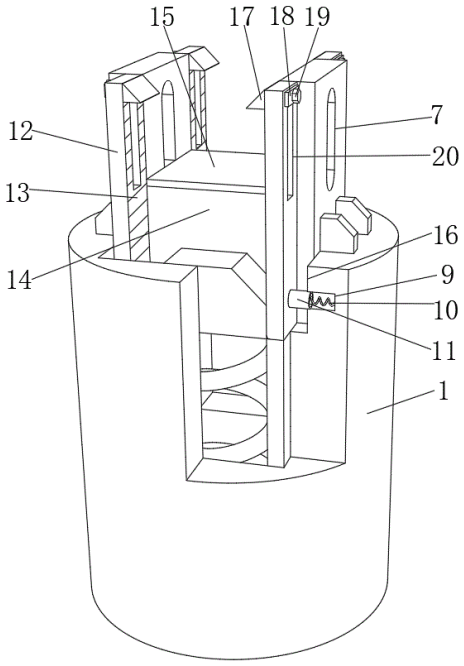


21: 2023/04999. 22: 2023/05/05. 43: 2023/06/02
51: B09B
71: TERDESOL SE
72: STEHLIK, Tomas
33: CZ 31: PV 2020-566 32: 2020-10-16
54: A FLEXIBLE SYSTEM FOR PROCESSING, TREATMENT AND USE OF WASTE
00: -
A variable system for processing, treatment and use of wastes containing sorting, mechanical treatment, separation and processing of waste that further contains a waste container (1) provided with at least one waste amount sensor (2) and at least one waste motion sensor (3) to which a waste crusher (5) with a load sensor (6) is connected via a batcher (4), wherein the waste amount sensor (2), the other waste motion sensor (3) and the load sensor (6) are interconnected with a control unit (7) connected to conveyor drive controllers in the waste container (1), the batcher (4) and the crusher(5); behind the crusher (5), a treatment plant for mechanical treatment, cleaning, drying, separation and agglomeration is located that is followed by a bio-gas station for processing and treatment of organic materials for energy recovery and subsequent use as compost, a sorter of formed granules to respective types of plastic for their recycling, and a thermochemical unit (8) for production of energy fuel in the form of gas, oil and carbon followed by at least one liquefied gas tank (9) provided with a mixing equipment are located.

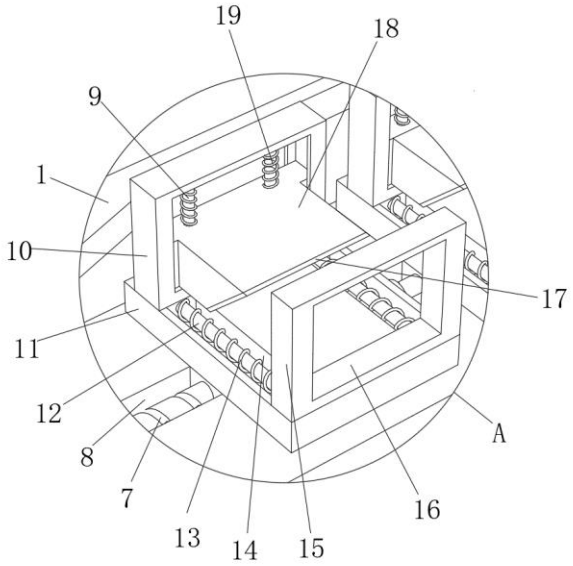


21: 2023/05039. 22: 2023/05/08. 43: 2023/06/02
51: E04B
71: CHINA CONSTRUCTION SECOND ENGINEERING BUREAU LTD.
72: DONG YAN, MING LEI, WEI XUE, JUNREN CHENG, XING HUANG, PAN LI, HONGYAN ZENG, LILI MA, WENYI ZOU
33: CN 31: 202221771538.9 32: 2022-07-11
54: A LARGE-SPAN STEEL TRUSS WITH STEEL CONCRETE FRAME FOR MOUNTAINOUS CITIES
00: -
The present disclosure discloses a steel reinforced concrete frame large-span steel truss in a mountainous city, which comprises a concrete column and a mounting base, the mounting base is in contact with the concrete column, the upper surface of the mounting base is fixedly connected with a connector body, a second sliding chute is arranged in the connector body, a sliding block is movably connected in the second sliding chute, and

the sliding block is fixedly connected with the mounting base. The bottom of the sliding block is fixedly connected with a second spring, the second spring is fixed to the second sliding groove, a plurality of receding grooves are formed in the two sides of the second sliding groove, two clamping plates are movably connected into the receding grooves, the clamping plates make contact with the sliding block, one side of each clamping plate is fixedly connected with a sliding pipe, and a plurality of sliding holes are formed in the connector body.

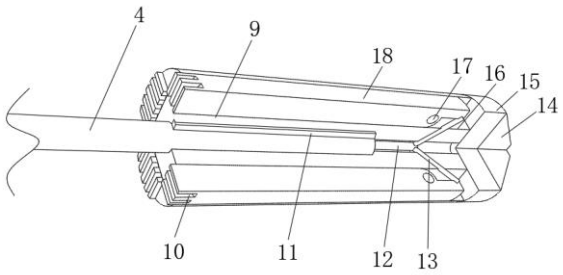


21: 2023/05040. 22: 2023/05/08. 43: 2023/06/02
51: E02D
71: CHINA CONSTRUCTION SECOND ENGINEERING BUREAU LTD.
72: DONG YAN, YIN ZOU, GE LU, WEI XUE, HONGYAN ZENG, JUNREN CHENG, LILI MA, XING HUANG, PAN LI, WENYI ZOU
33: CN 31: 202221775891.4 32: 2022-07-11
54: A BOTTOM SUPPORTING PLATE STRUCTURE BASED ON RAFT INSTALLATION
00: -
The bottom supporting plate structure based on raft installation comprises an L-shaped plate, a sliding groove is formed in the bottom of the L-shaped plate, a two-way threaded rod is movably connected in the sliding groove, two bottom plates are movably connected in the sliding groove, the two-way threaded rod penetrates through the bottom plates and is movably connected with the bottom plates, two sliding openings are formed in the upper surfaces of the bottom plates, and the two sliding openings are communicated with the two sliding grooves. According to the steel bar coiling and binding device, the phenomenon that a steel bar moves and is misplaced during coiling and binding or welding can be avoided, the coiling and binding or welding efficiency of workers is improved, the phenomenon that hands slip when the workers twist knobs can be avoided, the using effect of the device is improved, the device can be used for a longer time, and the labor intensity of the workers is reduced. And the service life of the device is prolonged.



21: 2023/05041. 22: 2023/05/08. 43: 2023/06/02
51: E02D
71: THE FIRST CONSTRUCTION ENGINEERING COMPANY LTD. OF CHINA CONSTRUCTION SECOND ENGINEERING BUREAU, CHINA CONSTRUCTION SECOND ENGINEERING BUREAU LTD., Central South University
72: XIAOLIANG ZHANG, SHOUWEN LI, ZHONG ZHOU, DIDONG CHEN, ZHIPENG GONG, JIAQI FENG, YAXIN DING, LIANGWEI YU
33: CN 31: 202221686125.0 32: 2022-07-01
54: AN ABRUPT SLOPE SUPPORTING STRUCTURE WITH ANTI-SLIDING SOIL RETAINING FUNCTION
00: -
The present disclosure discloses an abrupt slope supporting structure with anti-sliding and soil-

retaining functions, which comprises an abrupt slope supporting frame, one side of the abrupt slope supporting frame is movably connected with a plurality of half-threaded rods, one side of each half-threaded rod is fixedly connected with a limiting strip, one side of each limiting strip is movably connected with a fixing anchor, and the other side of each half-threaded rod is fixedly connected with the corresponding fixing anchor. A first steel wire rope is fixedly connected to one end of the half-threaded rod, a plurality of mounting grooves are formed in the circumferential outer wall of the fixing anchor, connecting shafts are movably connected into the mounting grooves, auxiliary claws are fixedly connected to one sides of the connecting shafts, and second steel wire ropes are fixedly connected to one sides of the auxiliary claws. The fixing anchor can be fixed in the abrupt slope through the auxiliary claw through the matched use of the auxiliary claw and the second steel wire rope, the stability of the device is improved, the auxiliary claw can be conveniently inserted into the abrupt slope through the insertion teeth, the use effect of the device is improved, and the practicability is high. And the contact area between the abrupt slope supporting frame and the abrupt slope can be increased through the auxiliary plate, and the protection effect of the device is improved.

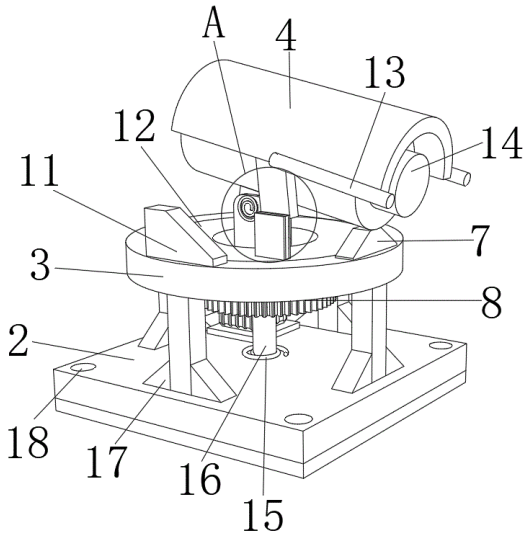


21: 2023/05042. 22: 2023/05/08. 43: 2023/06/02
51: F16F; F16M; H04N
71: THE FIRST CONSTRUCTION ENGINEERING COMPANY LTD. OF CHINA CONSTRUCTION SECOND ENGINEERING BUREAU, CHINA CONSTRUCTION SECOND ENGINEERING BUREAU LTD.
72: ZHIPENG GONG, SHOUWEN LI, XIAOLIANG ZHANG, ZHISEN CHEN, DIDONG CHEN, YAXIN DING, LIANGWEI YU
33: CN 31: 202222122810.7 32: 2022-08-12

54: A CONDITION MONITORING MECHANISM FOR MUNICIPAL BRIDGES

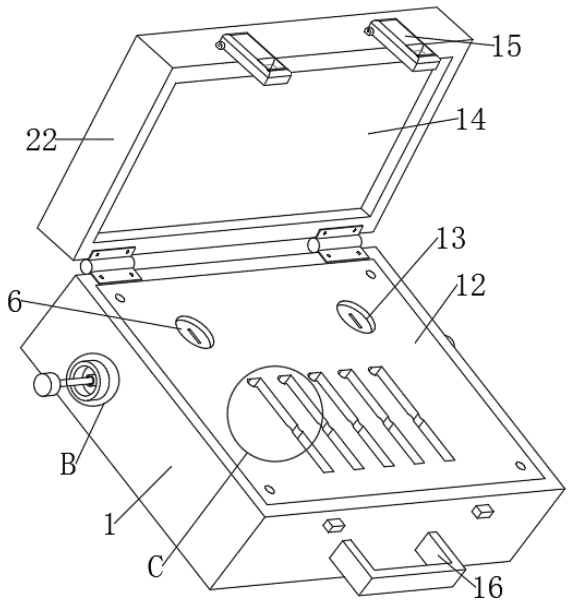
00: -

The present disclosure discloses a condition monitoring mechanism for municipal bridges, which comprises a bottom plate, the upper surface of the bottom plate is fixedly connected with a fixed frame, an installation groove is opened in the fixed frame, a turntable is movably connected in the installation groove, and the bottom of the turntable is fixed. A bull gear is connected, the upper surface of the turntable is fixedly connected with a fixed plate, and the upper surface of the bottom plate is movably connected with a rotating shaft. The rotating block is fixedly connected with a camera on the top of the rotating block. The present disclosure can not only improve the monitoring range of the camera, reduce the monitoring blind spot of the camera, improve the use effect of the camera, but also reduce the vibration force brought by the motor to the bottom plate, improve the stability of the monitoring mechanism, and it can prevent the camera from being damaged by the rain and cannot be monitored, which improves the protection effect of the camera.



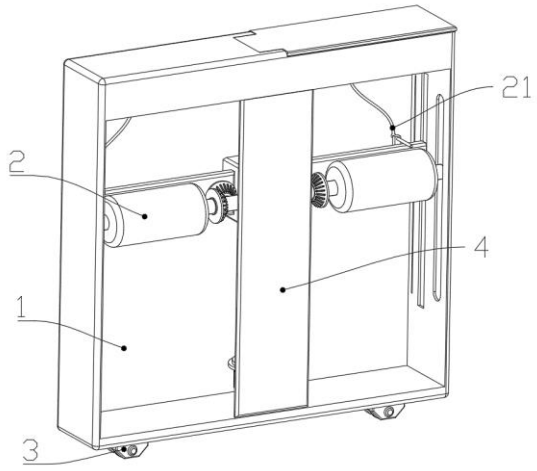
21: 2023/05046. 22: 2023/05/08. 43: 2023/06/02
51: G01N
71: THE FIRST CONSTRUCTION ENGINEERING COMPANY LTD. OF CHINA CONSTRUCTION SECOND ENGINEERING BUREAU, CHINA CONSTRUCTION SECOND ENGINEERING BUREAU LTD., Central South University

72: SHOUWEN LI, TIANLI HUANG, TAOPING YE, ZHONG ZHOU, ZHIPENG GONG, XIAOLIANG ZHANG, LEI TANG
33: CN 31: 202221986111.0 32: 2022-07-29
54: A PORTABLE DETECTION DEVICE FOR STEEL CONCRETE COMPOSITE STRUCTURE
00: -
The present disclosure discloses a portable detection device for steel concrete composite structure, which comprises a box body, a controller is fixedly connected to the inner wall of the bottom of the box body, wires are electrically connected to the two sides of the controller, probes are electrically connected to the other ends of the wires, and through holes are formed in the inner walls of the two sides of the box body. First shaft rods are rotationally connected to the two sides of the inner wall of the bottom of the box body, second shaft rods are arranged at the tops of the first shaft rods, penetrating holes are formed in the second shaft rods, wires penetrate through the penetrating holes and the through holes, rotating pieces are fixedly connected to the tops of the second shaft rods, a sealing plate is fixedly connected into the box body, and two round holes symmetrically distributed on the two sides are formed in the top of the sealing plate. And the second shaft rod is arranged in the round hole. According to the present disclosure, during detection, the probe is pulled out, detection can be carried out, after detection is completed, the rotating sheet is rotated, the second shaft rod and the first shaft rod are synchronously driven to rotate, the second shaft rod can simultaneously wind wire parts at two sides of the through hole, and the wire can be accommodated.



21: 2023/05047. 22: 2023/05/08. 43: 2023/06/02
51: A47L; E04G
71: China Construction Second Engineering Bureau Shenzhen Construction Investment Development Co., Ltd., THE FIRST CONSTRUCTION ENGINEERING COMPANY LTD. OF CHINA CONSTRUCTION SECOND ENGINEERING BUREAU, Shenzhen Longgang District Construction Works Department
72: ZHOU ZHOU, XIAOSHENG LUO, LING ZHANG, QINGSEN CAI, GUANGCHAO SUN
33: CN 31: 202221742783.7 32: 2022-07-06
54: A WALL SURFACE CLEANING DEVICE FOR CLEANING HOSPITAL WALL TILES
00: -
The utility model relates to the technical field of medical cleaning, in particular to a wall surface cleaning device for hospital wall surface tile cleaning, comprising: a box body, a storage space is formed on the box body, and one side is sealed; a drive member is arranged in the accommodating space and connected to the box body; two symmetrically arranged transmission members are arranged in the box body and connected to the box body and the drive member; two symmetrically arranged A cleaning roller is provided; a water storage tank is arranged on the box body; a spraying mechanism is connected to the driving member and the water storage tank, and when the cleaning roller changes its current position, the spraying mechanism moves along the cleaning The roller moves axially. When the driving part is driven, the

driving part drives the transmission part and the spraying mechanism to reciprocate axially, and the cleaning roller drives itself to rotate through the transmission part, and the spraying mechanism reciprocates relative to the cleaning roller. The water storage tank can be manually controlled whether to discharge water.

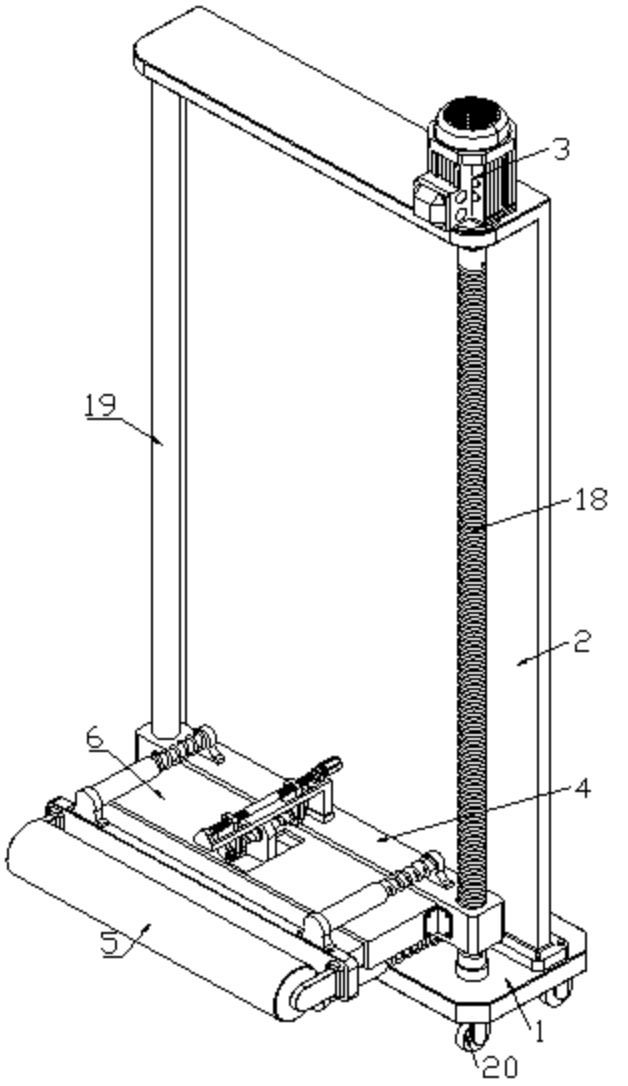


21: 2023/05048. 22: 2023/05/08. 43: 2023/06/02
51: G01C
71: China Construction Second Engineering Bureau Shenzhen Construction Investment Development Co., Ltd., THE FIRST CONSTRUCTION ENGINEERING COMPANY LTD. OF CHINA CONSTRUCTION SECOND ENGINEERING BUREAU
72: XIANGYU LI, XIAOYAN LIU, HONGZE LI, XIAOYA JIANG, YUNLIANG MA
33: CN 31: 202222972792.1 32: 2022-11-08

54: A WALL VERTICALITY DETECTION DEVICE USED IN BUILDING ACCEPTANCE

00: -

The present disclosure relates to a wall verticality detection device for building acceptance, which comprises a base and a vertical plate fixedly installed on the base, and a lifting plate is movable on the base, and the lifting plate is connected with a threaded lifting mechanism installed on the base. The side of the lifting plate away from the vertical plate is movably provided with a round roller, and the round roller is connected with an elastic mechanism installed on the lifting plate. The detection device also includes a driving mechanism movably arranged on the two alarms on the lifting plate, each of the two alarms is electrically connected to a static contact, and the elastic mechanism is connected to two moving contacts, the moving contacts are connected to the power supply.



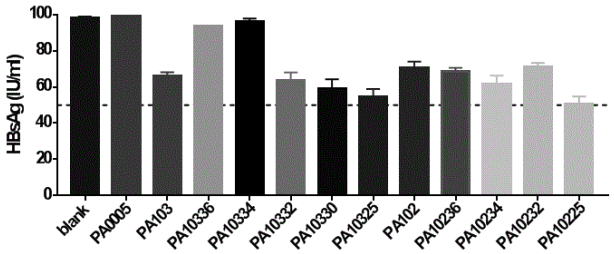
21: 2023/05094. 22: 2023/05/08. 43: 2023/06/02
51: A61K
71: ZHEJIANG PALO ALTO PHARMACEUTICALS, INC
72: XI, Zhijian, WU, Zhongshan, LU, Chunping
33: CN 31: CN202011282529.9 32: 2020-11-16

54: OLIGONUCLEOTIDE AND USE THEREOF AGAINST HEPATITIS B VIRUS AND HEPATITIS D VIRUS

00: -

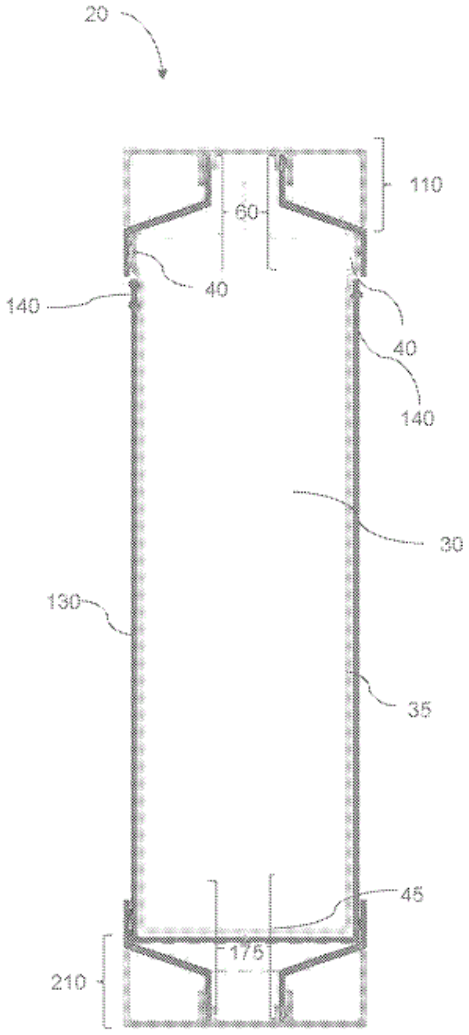
Provided are an oligonucleotide and the use thereof against the hepatitis B virus and the hepatitis D virus. Specifically, provided is a compound, or a pharmaceutically acceptable salt, a hydrate or a solvate thereof, wherein the compound is a modified or unmodified oligonucleotide and has a length of

24-40 nt. The oligonucleotide has a core sequence as shown in SEQ ID NO.1: GTGCAGAGGTGAAX1X2X3AAGTGCAC (SEQ ID NO.1), wherein X1X2X3 is GCG, CCG or CCT; and each T in the core sequence may be independently substituted with U



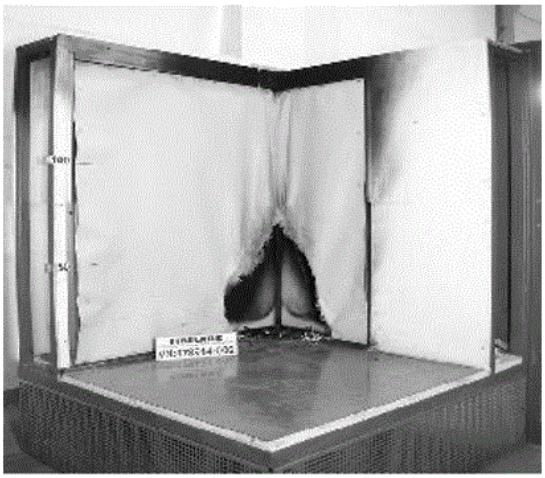
21: 2023/05418. 22: 2023/05/18. 43: 2023/05/29
51: H01R; H04B
71: Roper, Jason Andrew
72: Roper, Jason Andrew
33: ZA 31: 2021/00937 32: 2021-02-11
54: A MODULAR ELECTRICAL CONNECTING APPARATUS
00: -
The invention relates to an electrical connecting apparatus, more specifically but not exclusively, to a modular electrical connecting apparatus which includes a housing, a power inlet socket associated with the housing, a circuit board for connecting the electronic components of the apparatus, the circuit board being associated with the housing and a power outlet connector associated with the housing whereas the power inlet socket and power outlet connector are in electrical communication and where one or more electronic modules can be associated with the apparatus.

21: 2023/05420. 22: 2023/05/18. 43: 2023/06/02
51: A45F; B65D
71: SMITH, Kenton Oliver
72: SMITH, Kenton Oliver
54: COMPOUND BOTTLES
00: -
An apparatus includes an exterior portion, an interior portion, a first top, and a second top. The exterior portion includes an exterior wall, an exterior top end coupled to the exterior wall, and an exterior bottom closed end coupled to the exterior wall. The interior portion nests within the exterior portion and includes an interior wall having a geometry smaller than the exterior portion, an interior bottom closed end coupled to the interior wall, and an interior top end coupled to the interior wall opposite the interior bottom closed end. The first top closes the interior top end to form an interior space within the interior portion. The first top includes a first opening. The second top includes a second opening. The second top engages with the exterior bottom end in a stored position and engages with the exterior top end in a containing position.

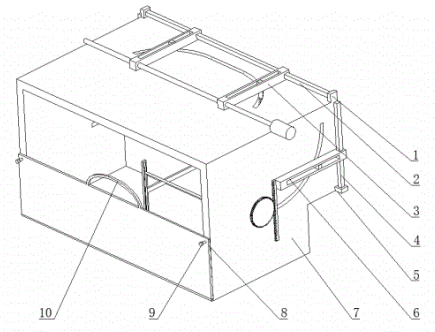


21: 2023/05673. 22: 2023/05/26. 43: 2023/06/02
51: C09D
71: WeiFang Jia Cheng Digital Materials Co., Ltd.

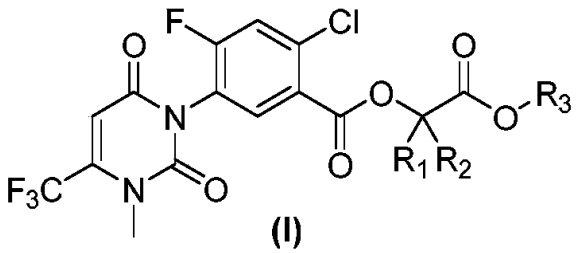
72: JING, Baihua, DU, Yunshu, WANG, Bingxin, WANG, Minqing, QIU, Faxin, MA, Tianfeng, LI, Hailiang
33: CN 31: 202210880106.X 32: 2022-07-25
54: FIREPROOF COATING MATERIAL
00: -
The present application discloses a fireproof coating material, and belongs to the technical field of fireproof coatings. The fireproof coating material includes 40-80 parts of an aqueous curing agent, 20-50 parts of water and 80-200 parts of a mother liquor of the fireproof coating material, wherein the mother liquor of the fireproof coating material consists of 50-80 parts of a flame retardant, 15-25 parts of a dispersant and 190-220 parts of water. The flame retardant used can not only effectively improve the problems of poor compatibility and mixing uniformity of a flame retardant with an aqueous latex in the existing fireproof coating material, but also can utilize O and H contained in a flame retardant system to form a carbonized layer during dehydration to isolate oxygen, preventing combustion, and enhancing the fire retardant performance.



21: 2023/05738. 22: 2023/05/29. 43: 2023/06/02
51: A01G
71: SHIHEZI UNIVERSITY
72: JIANG, Ping, GE, Jianbing, YE, Jing
33: CN 31: 202210950255.9 32: 2022-08-09
54: COMPENSATION GROWTH MOWING METHOD OF DESERT PLANT ANABASIS APHYLLA
00: -
Disclosed in the present invention is a compensation growth mowing method of a desert plant Anabasis aphylla. The method is characterized by comprising the following steps: step l, installing a frame body onto a movable device; step 2, starting the movable device, and moving the device to a working area; step 3, intermittently operating the movable device to enable a first push plate, a second baffle and a second push plate to form an area which is directly opposite to an appropriate number of Anabasis aphylla. The invention relates to the field of plant mowing methods, in particular, to a compensation growth mowing method of the desert plant Anabasis aphylla. The technical problem to be solved by the present invention is to provide a compensation growth mowing method of the desert plant desert plant Anabasis aphylla, so as to facilitate the mowing of Anabasis aphylla.



21: 2023/05750. 22: 2023/05/29. 43: 2023/06/02
51: A01N; C07D
71: JIANGSU FLAG CHEMICAL INDUSTRY CO., LTD.
72: ZHANG, Pu, YAO, Kaicheng, WU, Yaojun, XU, Dan, QIAN, Pin, BU, Long, BAI, Congqiang
33: CN 31: 202110167827.1 32: 2021-02-07
54: URACIL COMPOUND CONTAINING CARBOXYLATE FRAGMENT, PREPARATION METHOD THEREFOR, AND HERBICIDAL COMPOSITION AND USE THEREOF
00: -
The present invention relates to the field of herbicides, and in particular, to a uracil compound containing a carboxylate fragment and a preparation method therefor, a herbicidal composition, and a use. The uracil compound containing a carboxylate fragment provided in the present invention has better herbicidal activity compared with the prior art.



(I)

HYPOTHECATIONS

No records available

JUDGMENTS

No records available

OFFICE PRACTISE NOTICES

RECTIFICATION OF THE PATENT REGISTER IN TERMS OF SECTION 52 OF THE PATENTS ACT 57 OF 1978

Notice is hereby given that the Registrar has ordered rectification of the patent register, in respect of South African Patent Application No. **2022/13282**, in the name of **SEOUL VIOSYS CO., LTD.** by deleting the following entries**:**

(a) 2023-03-24 – Application accepted on 2023-03-24

(b) 2023-04-27 – Patent granted on 26-04-2023

(c) 2023-04-27 – Patent advertised on 26-04-2023

(d) Acceptance withdrawn on 20/04/2023

RECTIFICATION OF THE PATENT REGISTER IN TERMS OF SECTION 52 OF THE PATENTS ACT 57 OF 1978

Notice is hereby given that the Registrar has ordered rectification of the patent register, in respect of South African Patent Application No. **2019/06201**, in the name of **OY HALTON GROUP LTD**, by deleting the following entries:

(a) 2021-03-01 – Application accepted on 26/02/2021

(b) 2021-05-27 – Patent granted on 26-05-2021

(c) 2021-05-27 – Patent advertised on 26-05-2021

(d) Acceptance withdrawn on 06/01/2023

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 2023/05/29 -

A2023/00629 - O2COOL, LLC Class 9. CONTAINER HAVING BOWL AND LID

A2023/00630 - Ranir, LLC Class 28. TOOTHBRUSHES

F2023/00627 - BECKER, Gert Stephanus, EKSTEEN, Jacob Adriaan, VENTER, Shawn Class 24. TRANSFORAMINAL LUMBAR INTERBODY FUSION (“TLIF”) DEVICE

F2023/00628 - BECKER, Gert Stephanus Class 24. SHAFT FOR MEDICAL INSTRUMENT

. - APPLIED ON 2023/05/30 -

F2023/00634 - FARRELL, Gerhardus van Coppenhagen Class 13. SOLAR PANEL BRACKETS

A2023/00636 - TOYOTA JIDOSHA KABUSHIKI KAISHA Class 12. FRONT PORTION FOR AN AUTOMOBILE

A2023/00643 - TOYOTA JIDOSHA KABUSHIKI KAISHA Class 12. FRONT BUMPER FOR AN AUTOMOBILE

A2023/00644 - TOYOTA JIDOSHA KABUSHIKI KAISHA Class 12. FRONT GRILLE FOR AN AUTOMOBILE

A2023/00645 - TOYOTA JIDOSHA KABUSHIKI KAISHA Class 12. INSTRUMENT PANEL FOR AN AUTOMOBILE

A2023/00650 - DART INDUSTRIES INC. Class 7. COOKING POT WITH HANDLES

A2023/00642 - DART INDUSTRIES INC. Class 7. COVER FOR A COOKING POT WITH A HANDLE

A2023/00649 - DART INDUSTRIES INC. Class 7. COOKING POT WITH HANDLES

A2023/00640 - DART INDUSTRIES INC. Class 7. COVER FOR A COOKING POT WITH A HANDLE

A2023/00646 - DART INDUSTRIES INC. Class 7. HANDLE FOR A COOKING POT

A2023/00638 - DART INDUSTRIES INC. Class 7. COOKING POT WITH HANDLES

F2023/00635 - FARRELL, Gerhardus van Coppenhagen Class 13. SOLAR PANEL BRACKETS

F2023/00633 - PRETORIUS, Hermanus Stephanus Class 06. COFFIN ARRANGEMENT WITH INDICIA MODULES

A2023/00632 - PRETORIUS, Hermanus Stephanus Class 06. COFFIN ARRANGEMENT WITH INDICIA MODULES

F2023/00631 - GIDEON JOHANNES HITCHCOCK Class 07. BRAAI ROTATION BRACKET

A2023/00641 - DART INDUSTRIES INC. Class 7. COVER FOR A COOKING POT WITH A HANDLE

A2023/00639 - DART INDUSTRIES INC. Class 7. COVER FOR A COOKING POT WITH A HANDLE

A2023/00637 - TOYOTA JIDOSHA KABUSHIKI KAISHA Class 26. FRONT COMBINATION LAMP FOR AN AUTOMOBILE

F2023/00651 - ROUTE HOLDINGS (PTY) LTD Class 12. TRAILER

A2023/00647 - DART INDUSTRIES INC. Class 7. COOKING POT WITH HANDLES

A2023/00648 - DART INDUSTRIES INC. Class 7. COOKING POT WITH HANDLES

. - APPLIED ON 2023/05/31 -

F2023/00652 - IMPORT KALEIDOSCOPE CC Class 6. BULLETPROOF PILLOW

A2023/00653 - IMPORT KALEIDOSCOPE CC Class 6. BULLETPROOF PILLOW

F2023/00654 - LEE, Hyun Seung Class 6. PILLOW

. - APPLIED ON 2023/06/01 -

F2023/00656 - Bongisisa Russell Mbili Class 07. ROLLING PIN ORGANIZER

F2023/00655 - Bongisisa Mbili Class 06. SHOE STORAGE CABINET (SHOEBINET)

. - APPLIED ON 2023/06/02 -

A2023/00658 - Huhtamaki Molded Fiber Technology B.V. Class 09. EGG CARTON

A2023/00657 - Huhtamaki Molded Fiber Technology B.V. Class 09. EGG CARTONS

A2023/00659 - Huhtamaki Molded Fiber Technology B.V. Class 09. EGG CARTON

. - APPLIED ON 2023/06/06 -

F2023/00663 - PEREGRINE BULLETS (PTY) LTD Class 22. A BULLET

A2023/00660 - ESSITY HYGIENE AND HEALTH AKTIEBOLAG Class 24. SANITARY TOWEL

A2023/00662 - ESSITY HYGIENE AND HEALTH AKTIEBOLAG Class 24. SANITARY TOWEL

A2023/00664 - PEREGRINE BULLETS (PTY) LTD Class 22. A BULLET

A2023/00661 - ESSITY HYGIENE AND HEALTH AKTIEBOLAG Class 24. SANITARY TOWEL

F2023/00665 - PLASTIC INNOVATIONS (PTY) LTD Class 8. A DETONATOR HOLDER

. - APPLIED ON 2023/06/07 -

F2023/00677 - MANHOLES 4 AFRICA (PTY) LTD Class 25. UTILITY CHAMBER

A2023/00676 - MANHOLES 4 AFRICA (PTY) LTD Class 25. UTILITY CHAMBER

A2023/00674 - MANHOLES 4 AFRICA (PTY) LTD Class 25. UTILITY CHAMBER

F2023/00673 - MANHOLES 4 AFRICA (PTY) LTD Class 25. UTILITY CHAMBER

F2023/00671 - MANHOLES 4 AFRICA (PTY) LTD Class 25. UTILITY CHAMBER

A2023/00672 - MANHOLES 4 AFRICA (PTY) LTD Class 25. UTILITY CHAMBER

F2023/00675 - MANHOLES 4 AFRICA (PTY) LTD Class 25. UTILITY CHAMBER

A2023/00670 - MANHOLES 4 AFRICA (PTY) LTD Class 25. UTILITY CHAMBER

A2023/00669 - PHOENIX INDUSTRIES PTY LTD Class 23. SHOWER ROSE

F2023/00668 - MANHOLES 4 AFRICA (PTY) LTD Class 25. UTILITY CHAMBER

F2023/00666 - GIDEON JOHANNES HITCHCOCK Class 07. GRID BRACKET

A2023/00667 - MANHOLES 4 AFRICA (PTY) LTD Class 25. UTILITY CHAMBER

. - APPLIED ON 2023/06/08 -

A2023/00681 - CONRADIE FAMILY TRUST Class 04. GOLF CLUB HEAD CLEANER

F2023/00682 - CONRADIE FAMILY TRUST Class 04. GOLF CLUB HEAD CLEANER

F2023/00680 - CONRADIE FAMILY TRUST Class 14. A MOBILE DEVICE HOLDER

A2023/00678 - Serendra Reddy Class 32. BACKCHAT LOGO

A2023/00679 - CONRADIE FAMILY TRUST Class 14. A MOBILE DEVICE HOLDER

. - APPLIED ON 2023/06/09 -

F2023/00684 - Siyashanela Services CC Class 08. CORNER PLATE FORKS

F2023/00683 - EKSTEEN, Ehren Cronje Class 24. WOUND BED ACCESS DEVICES

A2023/00697 - MSD DIVEST Class 25. MSD COMMUNITY HUB

. - APPLIED ON 2023/06/12 -

F2023/00685 - GIDEON JOHANNES HITCHCOCK Class 07. DUAL BRACKET

A2023/00686 - HENCA (HONG KONG) LIMITED Class 13. PORTABLE BACKUP POWER SUPPLIES

A2023/00687 - HENCA (HONG KONG) LIMITED Class 13. PORTABLE BACKUP POWER SUPPLIES

A2023/00689 - GREAT WALL MOTOR COMPANY LIMITED Class 12. AUTOMOBILE

A2023/00688 - ROSEMOUNT INC. Class 10. TEMPERATURE TRANSMITTER HOUSING

. - APPLIED ON 2023/06/13 -

A2023/00690 - SODASTREAM INDUSTRIES LTD. Class 09. BOTTLES

A2023/00691 - LASHIFY, INC. Class 28. FISHNET LASHES

. - APPLIED ON 2023/06/14 -

F2023/00692 - Marc Day, Stuart Douglas Holliday Class 06. GIDMAR PREMIUM TRESTLE

. - APPLIED ON 2023/06/15 -

F2023/00693 - Polytech Inc Class 6. PACKAGED MATTRESS

F2023/00696 - LEANDER GROUP PROPRIETARY LIMITED Class 25. FASCIA BOARD

A2023/00694 - ROSEMOUNT INC. Class 10. PRESSURE TRANSMITTER HOUSING

F2023/00695 - LEANDER GROUP PROPRIETARY LIMITED Class 25. HOLLOW BARGE

F2023/00700 - RATANANG LERATO MOSAKO Class 99. GAS TANK

. - APPLIED ON 2023/06/19 -

A2023/00699 - YETI Coolers, LLC Class 07. A LID

A2023/00698 - YETI Coolers, LLC Class 07. A LID

. - APPLIED ON 2023/06/20 -

A2023/00704 - ROSEMOUNT INC. Class 10. HOUSING COVER

F2023/00705 - Tru Mode (PTY) LTD Class 24. RESPIRATORY DEVICE

A2023/00703 - SITA INFORMATION NETWORKING COMPUTING CANADA INC. Class 14. FREESTANDING FACEPOD

A2023/00702 - BECKETT, Matthews Stuart Class 3. A TAG ASSEMBLY

F2023/00701 - BECKETT, Matthews Stuart Class 3. A TAG ASSEMBLY

F2023/00707 - BABILI NTULI Class 23. TOILET

. - APPLIED ON 2023/06/21 -

A2023/00706 - MEVOL (HK) LIMITED Class 27. ELECTRONIC CIGARETTE

. - APPLIED ON 2023/06/22 -

F2023/00708 - THORNE, LIONEL WAYNE BRITTANICUS Class 07. NOVEL FILTER DESIGN FOR USE IN COFFEE MACHINES AND FRYING OIL FILTRATION

A2023/00712 - WHEEL PROS, LLC Class 12. VEHICLE WHEEL

A2023/00710 - WHEEL PROS, LLC Class 12. VEHICLE WHEEL

A2023/00711 - WHEEL PROS, LLC Class 12. VEHICLE WHEEL

F2023/00709 - SUPREME MOULDINGS (PTY) LTD Class 25. WALL PANEL

. - APPLIED ON 2023/06/23 -

A2023/00713 - ROSEMOUNT INC. Class 10. METER COVER

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

NOTICE: APPLICATION TO CORRECT AND/OR AMEND DESIGN REGISTRATION (SECTIONS 26, 27, AND REGULATION 41)

Notice is hereby given that **EVA-LAST DISTRIBUTORS (PTY) LTD** has applied to amend the following registered designs by inserting the release date of 27 April 2016: **A2016/01137, F2016/01138, A2016/01139, F2016/01140, A2016/01141, F2016/01142, A2016/01143, F2016/01144, A2016/01145, F2016/01146, A2016/01147, F2016/01148, A2016/01149, F2016/01150, A2016/01151,** and **F2016/01152.**

Any notice of opposition (on Design Form 11) must be lodged at the Design Office within a period of two (2) months from the date of this notice.

Registrar of Patents and Designs

NOTICE OF REGISTRATION OF DESIGNS

Notice of registration of the designs mentioned below has been issued by the Registrar of Designs in terms of the Designs Act, 1993 (Act No. 195 of 1993)

INSPECTION OF DESIGNS

A design application, may after a notice of registration has been published, be inspected during office hours at the Designs Office, Pretoria, at a charge of R3, 00

COPIES OF DOCUMENTS

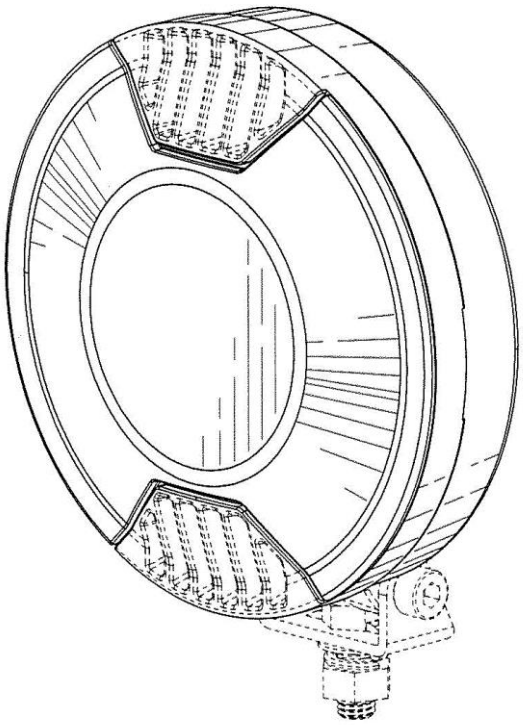
The Designs Office, Private Bag X400, Pretoria, supplies photocopies of all design documents at R1, 00 per page. (Payment to be affected by revenue stamps only.)

The numerical references denote the following: **(21)** Number of application. **(22)** Date of lodgement. **(23)** release date (if applicable). **(DR)** Date of registration. **(52)** Class. **(24)** Type of design. **(71)** Name(s) of applicant(s). **(33)** Country. **(31)** Number and. **(32)** Date of convention application. **(54)** Articles to which design is to be applied. **(57)** Brief statement of features.

N.B.: Date of registration (DR) is either Date of lodgement (22) or Date of convention of application (32) whichever is the earlier.

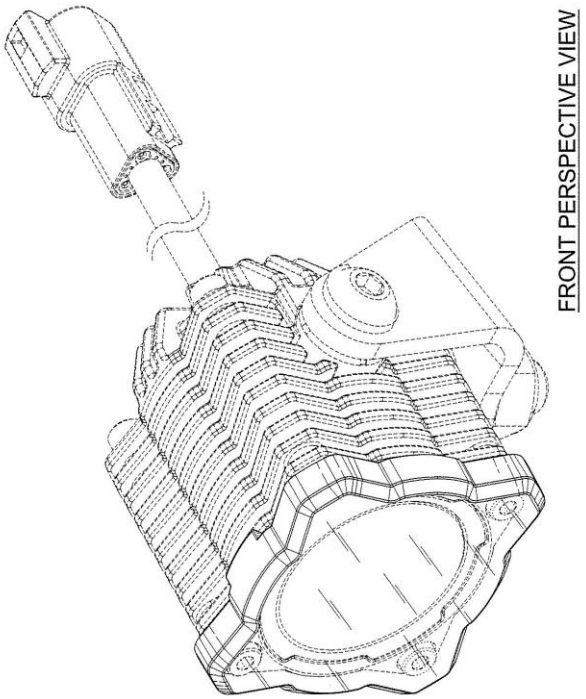
Registrar of Designs

21: A2021/00695 22: 2021-06-14 23:
43: 2023-05-19
52: Class 12 24: Part A
71: KC IP HOLDINGS, LLC
33: US 31: 29/763,684 32: 2020-12-23
54: VEHICLE LIGHT
57: The design is to be applied to a vehicle light. The features for which protection is claimed are those of shape and/or configuration 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.



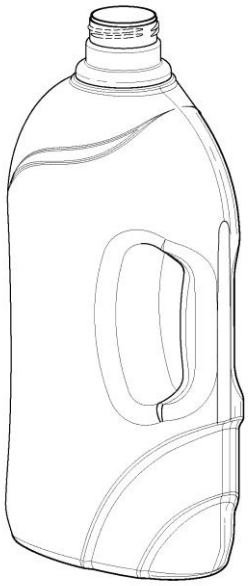
FRONT PERSPECTIVE VIEW

21: A2021/00696 22: 2021-06-14 23:
43: 2023-05-19
52: Class 12 24: Part A
71: KC IP HOLDINGS, LLC
33: US 31: 29/763,686 32: 2020-12-23
54: VEHICLE AUXILIARY LIGHT
57: The design is to be applied to a vehicle auxiliary light. The features for which protection is claimed are those of shape and/or configuration 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.



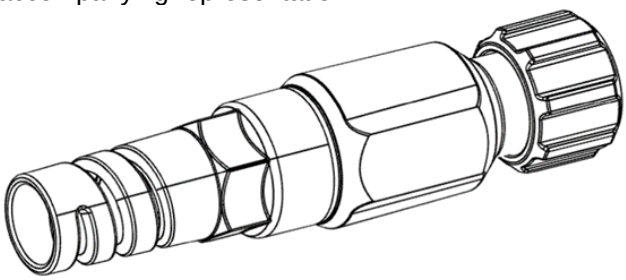
FRONT PERSPECTIVE VIEW

21: A2021/00957 22: 2021-08-11 23:
43: 2023-04-25
52: Class 09 24: Part A
71: BOWLER PLASTICS (PTY) LTD
54: A BOTTLE
57: The design relates to a BOTTLE. The features of the design for which protection is claimed include the pattern and/or shape and/or configuration and/or ornamentation of the BOTTLE substantially as illustrated in the accompanying representations.



FIRST PERSPECTIVE VIEW

21: A2022/00625 22: 2022-06-03 23:
43: 2023-05-11
52: Class 08 24: Part A
71: WINSTON PRODUCTS, LLC
33: US 31: 29/817,879 32: 2021-12-04
54: EXPANDABLE HOSE CONNECTOR
57: The design is applied to an expandable hose connector. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the expandable hose connector, substantially as illustrated in the accompanying representation.



21: A2022/00811 22: 2022-07-14 23:
43: 2023-03-15
52: Class 23 24: Part A
71: BLUESUN CONSUMER BRANDS, S.L.
33: EU 31: 008828966-0003 32: 2022-01-14
54: SANITARY FLUID DISPENSER
57: The features of the design for which protection is claimed reside in the shape and/or configuration and/or pattern of a sanitary fluid dispenser, substantially as shown in the accompanying representations.

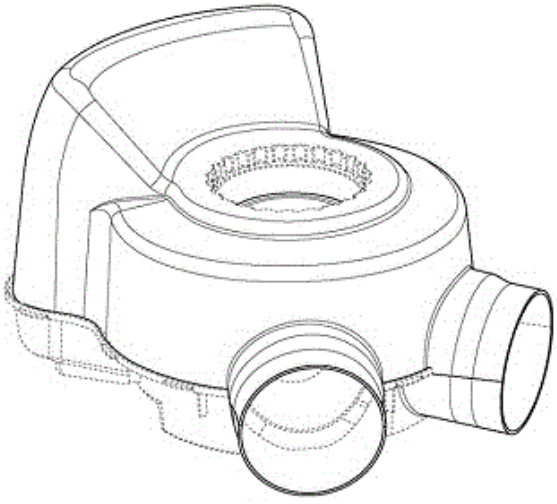


21: A2022/01028 22: 2022-09-01 23:
43: 2022-03-02
52: Class 2 24: Part A
71: Crocs, Inc.
33: US 31: 29/829,060 32: 2022-03-02
54: FOOTWEAR
57: The design is for an article of footwear in the form a slide. The slide has a sole, an upper surface of which is partly covered by a strap that has an upwardly inclined front portion and side portions. A rear edge of the strap curves downwardly rearwardly from a central region towards the sides of the sole. Pronounced generally triangular-shaped openings having a curved outline are defined on opposite sides of the strap. A pattern of contour shaped ridges is provided on the outer surface of the front, sides, and rear of the sole.



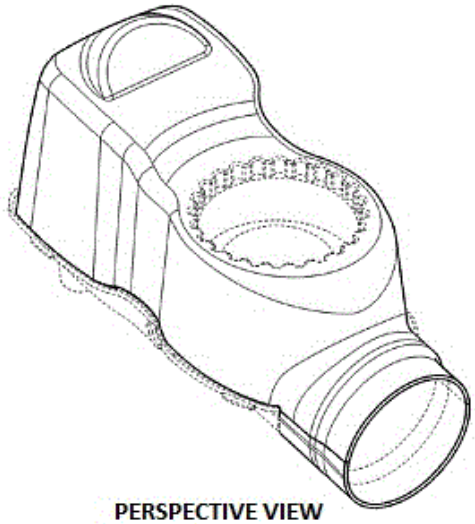
Figure 1 Three-dimensional view

21: A2022/01033 22: 2022-09-02 23:
43: 2023-04-13
52: Class 23. 24: Part A
71: LIXIL CORPORATION
33: JP 31: 2022-007930 32: 2022-04-12
54: Toilet Trap
57: The design relates to a toilet trap. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



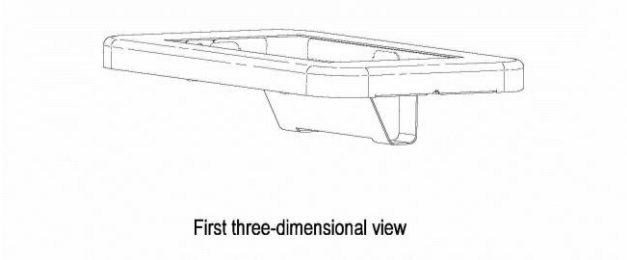
PERSPECTIVE VIEW

21: A2022/01034 22: 2022-09-02 23:
43: 2023-04-13
52: Class 23. 24: Part A
71: LIXIL CORPORATION
33: JP 31: 2022-007931 32: 2022-04-12
54: Toilet Trap
57: The design relates to a toilet trap. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

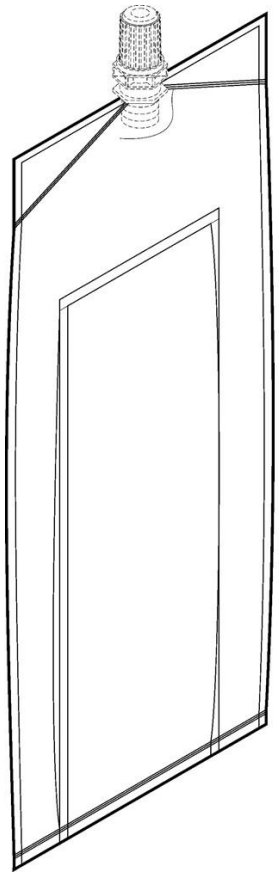


PERSPECTIVE VIEW

21: A2022/01035 22: 2022-09-02 23:
43: 2022-09-02
52: Class 8 24: Part A
71: PILLAY, Thevendrin
54: Mounting Devices
57: This design relates to a mounting device for mounting a tablet computer to a trolley. The device comprises a tablet holder and a mounting bracket operatively attached thereto. The tablet holder is slab-like with front and rear faces interconnected by sidewalls defining an interior for receiving the tablet. The front face defines a rectangular aperture conforming to dimensions of a touch screen of the tablet thereby allowing users to interact with the tablet. The mounting bracket is attached to the rear face of the tablet holder and has first, second, and third portions, wherein the first and third portions extend in the same plane and attaches to the tablet holder. The second portion extends obliquely from the first portion to a trough and rises transversely therefrom to a pair of spaced apart flanges. The second portion defines a valley for the location of a handle of a shopping trolley therein.



21: A2022/01048 22: 2022-09-06 23:
43: 2023-04-13
52: Class 09 24: Part A
71: nomSoco Foods (Pty) Ltd
54: FOOD PACKAGING
57: The design is applied to food packaging. 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 food packaging, substantially as illustrated in the accompanying representation. Features shown in broken lines do not form part of the design and are disclaimed.



21: A2022/01050 22: 2022-09-07 23:
43: 2023-04-13
52: Class 9. 24: Part A
71: LAURENSKIRK PROPRIETARY LIMITED T/A INVERROCHE DISTILLERY
54: Bottle
57: The design relates to a bottle. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



21: A2022/01063 22: 2022-09-09 23:
43: 2023-04-14
52: Class 08 24: Part A
71: RSI NORTH AMERICA, INC.
33: US 31: 29/830,438 32: 2022-03-11
54: PRESSURE LOCK
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 pressure lock substantially as illustrated in the accompanying representations.

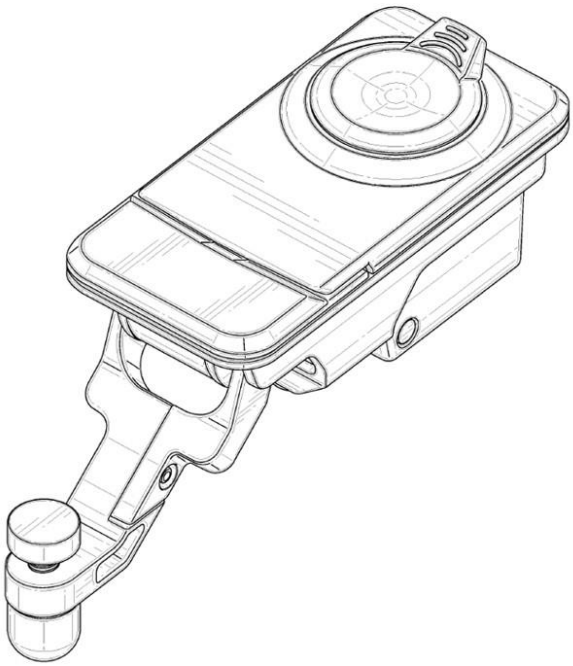


Figure 1

First perspective view of the pressure lock

21: A2022/01065 22: 2022-09-09 23:
43: 2023-04-14
52: Class 08 24: Part A
71: RSI NORTH AMERICA, INC.
33: US 31: 29/830,438 32: 2022-03-11
54: PRESSURE LOCK
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 pressure lock substantially as illustrated in the accompanying representations. The features and parts shown in broken lines in the representations are for illustrative purposes only and form no part of the claimed design.

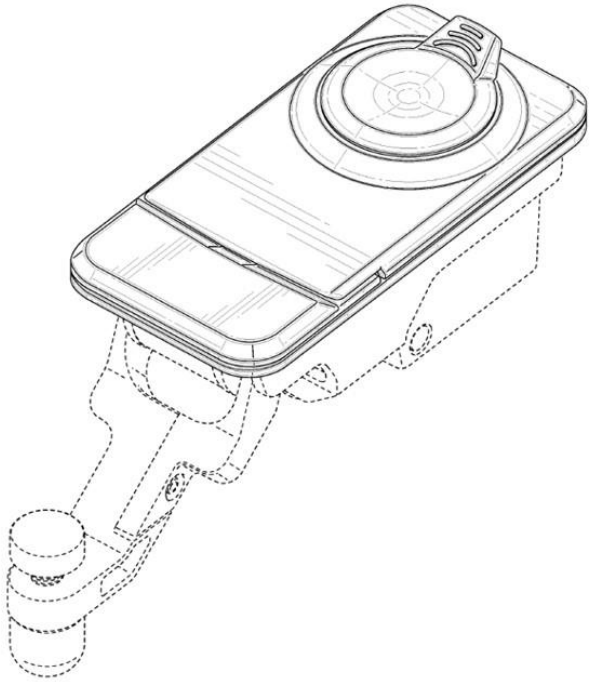


Figure 1

First perspective view of the pressure lock

21: A2022/01067 22: 2022-09-09 23:
43: 2023-04-14
52: Class 08 24: Part A
71: RSI NORTH AMERICA, INC.
33: US 31: 29/830,438 32: 2022-03-11
54: PRESSURE LOCK
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 pressure lock substantially as illustrated in the accompanying representations. The features and parts shown in broken lines in the representations are for illustrative purposes only and form no part of the claimed design.

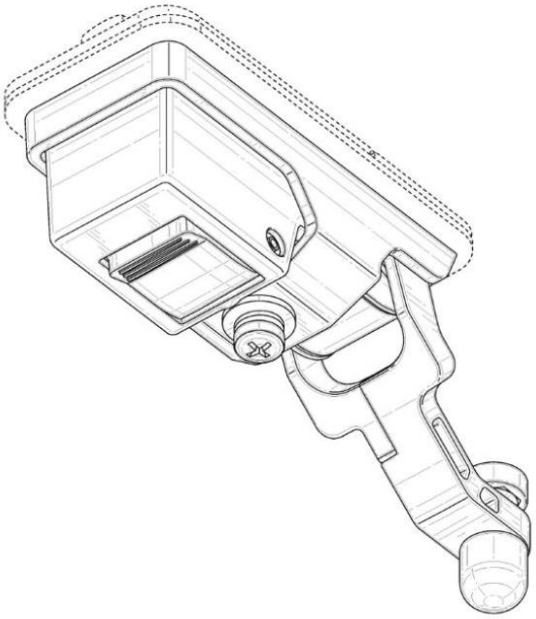
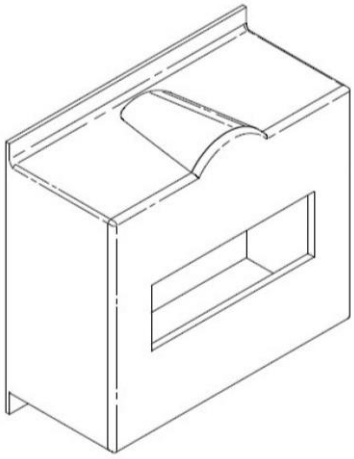


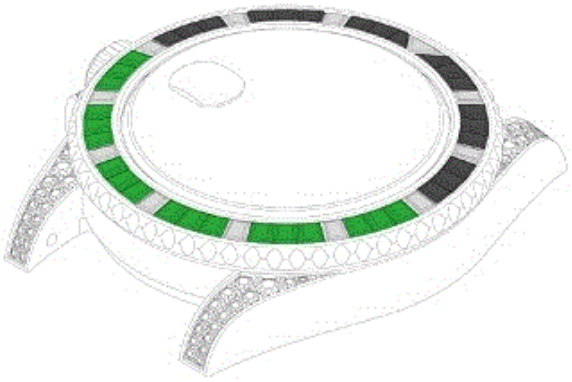
Figure 2

Second perspective view thereof

21: A2022/01070 22: 2022-09-12 23:
43: 2022-09-12
52: Class 13 24: Part A
71: VAN WYK, Daniel Johannes
54: HOUSINGS FOR ELECTRICAL EQUIPMENT
57: The design relates to a housing for electrical equipment. The housing has a generally parallelepiped, hollow base which is configured to house electrical components and a planar front face received over the base. The front face defines a centrally disposed rectangular window. The base has a pair of opposing planar sidewalls, a top having an upwardly projecting lip toward the rear for securing the housing to a wall and a planar bottom. The bottom also includes a downwardly protruding lip which extends for the breadth of the bottom. The front face of the housing is removably secured to the base. The top of the housing has a raised arcuate portion, centrally disposed, which tapers toward the rear. It will be appreciated that the breadth of the housing may vary depending on its intended application.

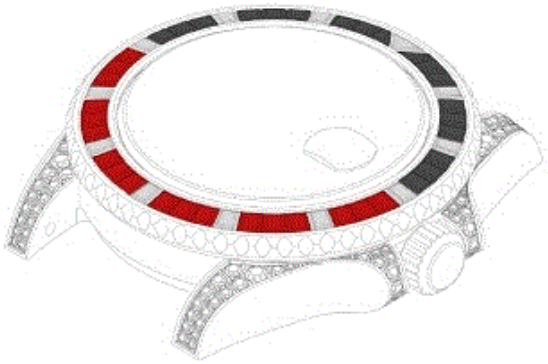


21: A2022/01074 22: 2022-09-13 23:
43: 2023-04-13
52: Class 10. 24: Part A
71: ROLEX SA
33: CH 31: 146646 32: 2022-03-14
54: Watch Case
57: The design relates to a watch case. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



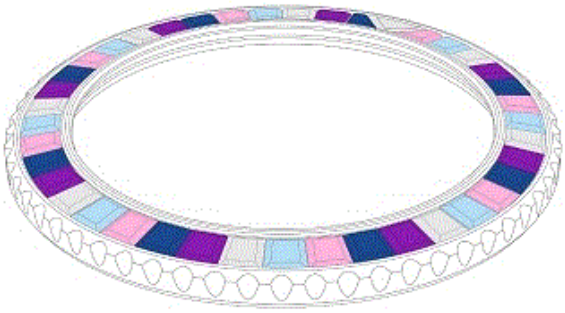
PERSPECTIVE VIEW

21: A2022/01075 22: 2022-09-13 23:
43: 2023-04-13
52: Class 10. 24: Part A
71: ROLEX SA
33: CH 31: 146646 32: 2022-03-14
54: Watch Case
57: The design relates to a watch case. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



PERSPECTIVE VIEW

21: A2022/01076 22: 2022-09-13 23:
43: 2023-04-13
52: Class 10. 24: Part A
71: ROLEX SA
33: CH 31: 146647 32: 2022-03-14
54: Watch Bezel
57: The design relates to a watch bezel. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



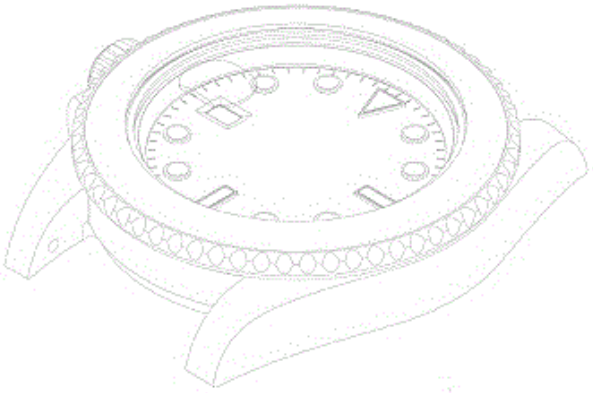
PERSPECTIVE VIEW

21: A2022/01077 22: 2022-09-13 23:
43: 2023-04-13
52: Class 10. 24: Part A
71: ROLEX SA
33: CH 31: 146645 32: 2022-03-14
54: Watch Bezel
57: The design relates to a watch bezel. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



PERSPECTIVE VIEW

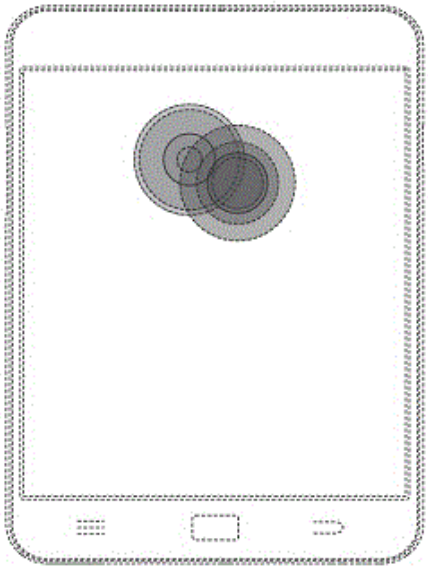
21: A2022/01078 22: 2022-09-13 23:
43: 2023-04-13
52: Class 10. 24: Part A
71: ROLEX SA
33: CH 31: 146644 32: 2022-03-14
54: Watch Case
57: The design relates to a watch case. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



PERSPECTIVE VIEW

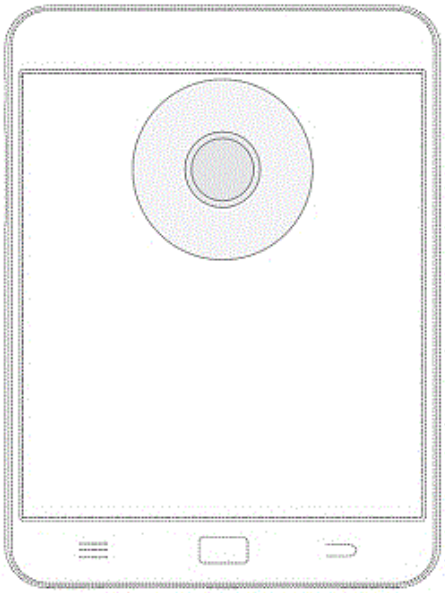
21: A2022/01087 22: 2022-09-16 23:
43: 2023-04-13
52: Class 14. 24: Part A
71: AB INITIO TECHNOLOGY LLC
33: US 31: 29/831,176 32: 2022-03-17
54: Display Panel Portion with an Animated Computer Icon
57: The design relates to a display panel portion with an animated computer icon. The features of the

design are those of shape and/or configuration and/or pattern and/or ornamentation.



FIRST FIGURE OF SEQUENCE

21: A2022/01088 22: 2022-09-16 23:
43: 2023-04-13
52: Class 14. 24: Part A
71: AB INITIO TECHNOLOGY LLC
33: US 31: 29/831,258 32: 2022-03-18
54: Display Panel Portion with an Animated Computer Icon
57: The design relates to a display panel portion with an animated computer icon. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



FIRST FIGURE OF SEQUENCE

21: A2022/01090 22: 2022-09-16 23:
43: 2023-04-13
52: Class 10. 24: Part A
71: APPLE INC.
33: US 31: 29/831,163 32: 2022-03-17
33: US 31: 29/852,194 32: 2022-09-04
54: Electronic Device
57: The design relates to an electronic device. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



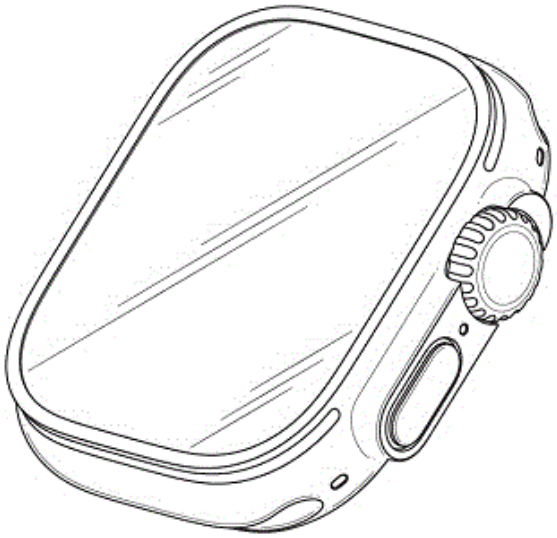
FRONT RIGHT SIDE PERSPECTIVE VIEW

21: A2022/01091 22: 2022-09-16 23:
43: 2023-04-13
52: Class 10. 24: Part A
71: APPLE INC.
33: US 31: 29/831,163 32: 2022-03-17
33: US 31: 29/852,359 32: 2022-09-06
33: US 31: 29/852,194 32: 2022-09-04
54: Electronic Device
57: The design relates to an electronic device. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



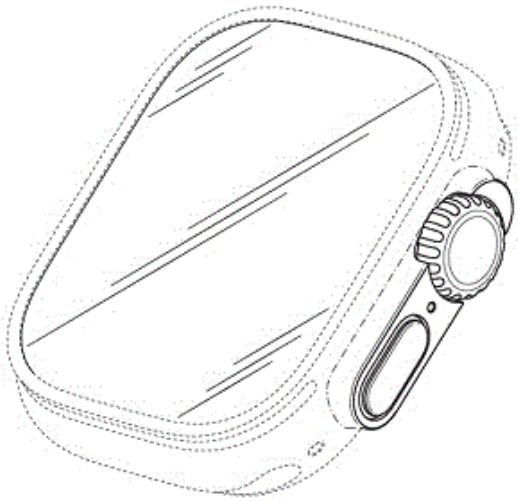
FRONT RIGHT SIDE PERSPECTIVE VIEW

21: A2022/01092 22: 2022-09-16 23:
43: 2023-04-13
52: Class 10. 24: Part A
71: APPLE INC.
33: US 31: 29/831,163 32: 2022-03-17
33: US 31: 29/852,359 32: 2022-09-06
33: US 31: 29/852,194 32: 2022-09-04
33: US 31: 29/852,530 32: 2022-09-07
54: Electronic Device
57: The design relates to an electronic device. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



BOTTOM FRONT PERSPECTIVE VIEW

21: A2022/01093 22: 2022-09-16 23:
43: 2023-04-13
52: Class 10. 24: Part A
71: APPLE INC.
33: US 31: 29/852,194 32: 2022-09-04
33: US 31: 29/852,359 32: 2022-09-06
33: US 31: 29/831,163 32: 2022-03-17
33: US 31: 29/852,530 32: 2022-09-07
54: Electronic Device
57: The design relates to an electronic device. The features of the design are those of shape and/or configuration and/or ornamentation.



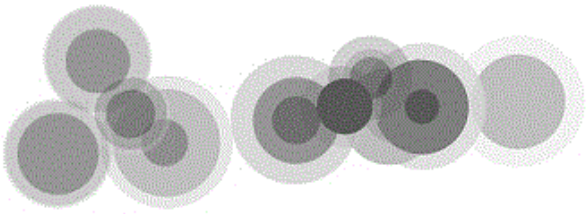
BOTTOM FRONT PERSPECTIVE VIEW

21: A2022/01094 22: 2022-09-16 23:
43: 2023-04-13
52: Class 10. 24: Part A
71: APPLE INC.
33: US 31: 29/831,163 32: 2022-03-17
33: US 31: 29/852,194 32: 2022-09-04
33: US 31: 29/852,359 32: 2022-09-06
33: US 31: 29/852,530 32: 2022-09-07
54: Electronic Device
57: The design relates to an electronic device. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



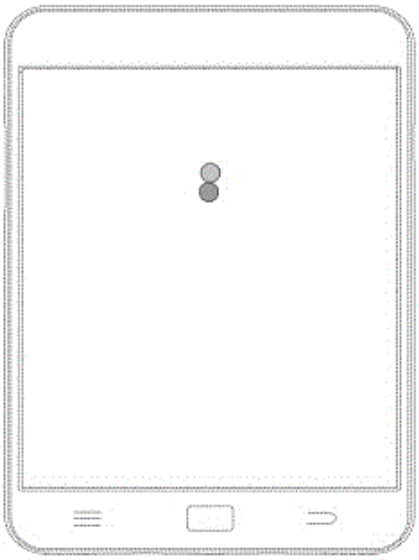
BOTTOM FRONT PERSPECTIVE VIEW

21: A2022/01096 22: 2022-09-16 23:
43: 2023-04-13
52: Class 14. 24: Part A
71: AB INITIO TECHNOLOGY LLC
33: US 31: 29/831,275 32: 2022-03-18
33: US 31: 29/831,176 32: 2022-03-17
33: US 31: 29/831,258 32: 2022-03-18
33: US 31: 29/831,244 32: 2022-03-18
54: Display Panel Portion with a Computer Icon
57: The design relates to a display panel portion with a computer icon. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



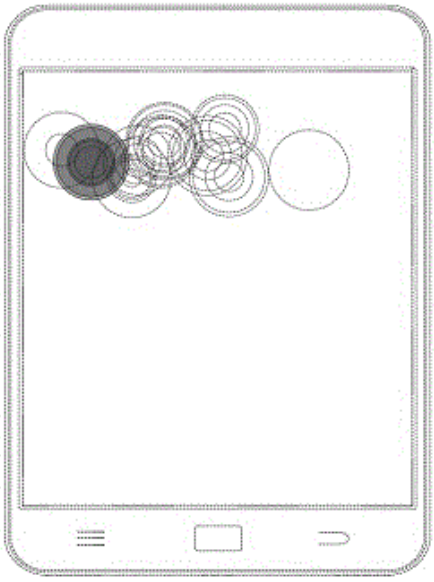
FRONT VIEW

21: A2022/01098 22: 2022-09-16 23:
43: 2023-04-13
52: Class 14. 24: Part A
71: AB INITIO TECHNOLOGY LLC
33: US 31: 29/831,275 32: 2022-03-18
54: Display Panel Portion with an Animated Computer Icon
57: The design relates to a display panel portion with an animated computer icon. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



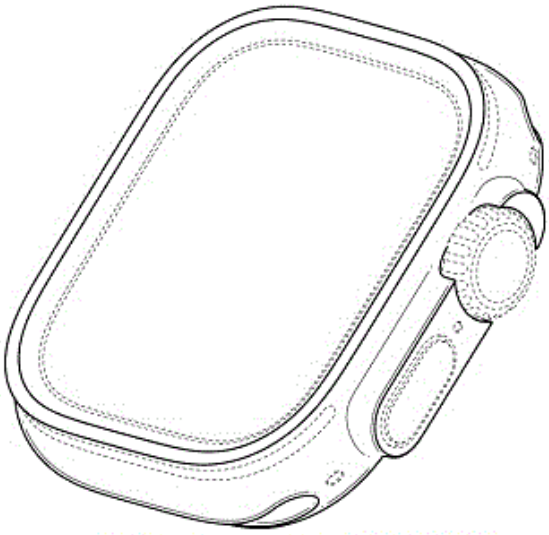
FIRST FIGURE OF SEQUENCE

21: A2022/01099 22: 2022-09-16 23:
43: 2023-04-20
52: Class 14. 24: Part A
71: AB INITIO TECHNOLOGY LLC
33: US 31: 29/831,244 32: 2022-03-18
54: Display Panel Portion with an Animated Computer Icon
57: The design relates to a display panel portion with an animated computer icon. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



FIRST FIGURE OF SEQUENCE

21: A2022/01101 22: 2022-09-16 23:
43: 2023-04-13
52: Class 10. 24: Part A
71: APPLE INC.
33: US 31: 29/831,163 32: 2022-03-17
54: Electronic Device
57: The design relates to an electronic device. The features of the design are those of shape and/or configuration and/or ornamentation.



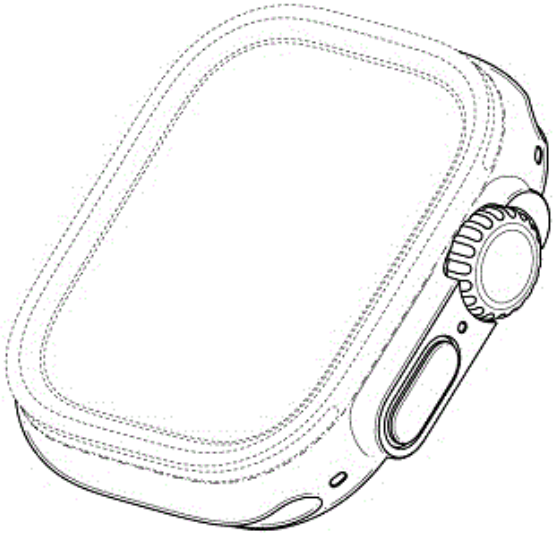
BOTTOM FRONT PERSPECTIVE VIEW

21: A2022/01102 22: 2022-09-16 23:
43: 2023-04-13
52: Class 10. 24: Part A
71: APPLE INC.
33: US 31: 29/831,163 32: 2022-03-17
54: Electronic Device
57: The design relates to an electronic device. The features of the design are those of shape and/or configuration and/or ornamentation.



BOTTOM FRONT PERSPECTIVE VIEW

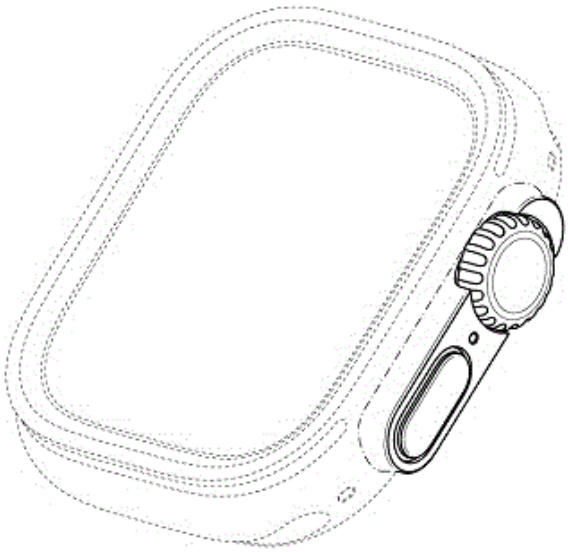
21: A2022/01103 22: 2022-09-16 23:
43: 2023-04-13
52: Class 10. 24: Part A
71: APPLE INC.
33: US 31: 29/831,163 32: 2022-03-17
54: Electronic Device
57: The design relates to an electronic device. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



BOTTOM FRONT PERSPECTIVE VIEW

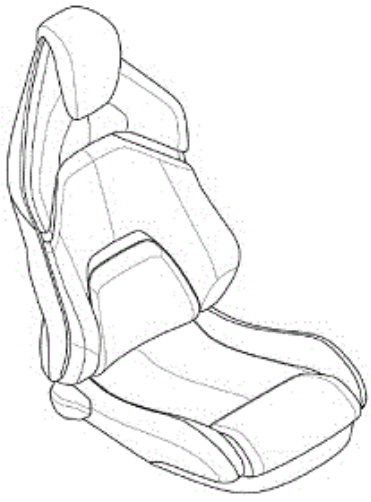
21: A2022/01104 22: 2022-09-16 23:
43: 2023-04-13
52: Class 10. 24: Part A
71: APPLE INC.

33: US 31: 29/831,163 32: 2022-03-17
54: Electronic Device
57: The design relates to an electronic device. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



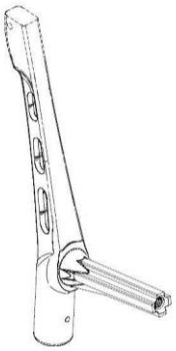
BOTTOM FRONT PERSPECTIVE VIEW

21: A2022/01124 22: 2022-09-21 23: 2022-09-13
43: 2023-04-13
52: Class 6. 24: Part A
71: FERRARI S.P.A.
33: IB 31: DM/220476 32: 2022-03-23
54: Vehicle Seat
57: The design relates to a vehicle seat. The features of the design are those of shape and/or configuration and/or ornamentation.

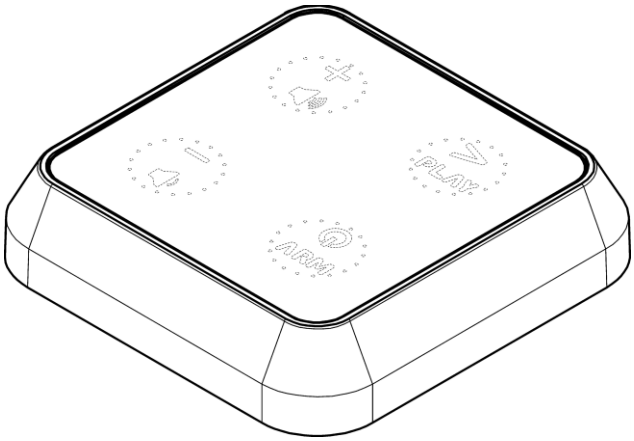


PERSPECTIVE VIEW

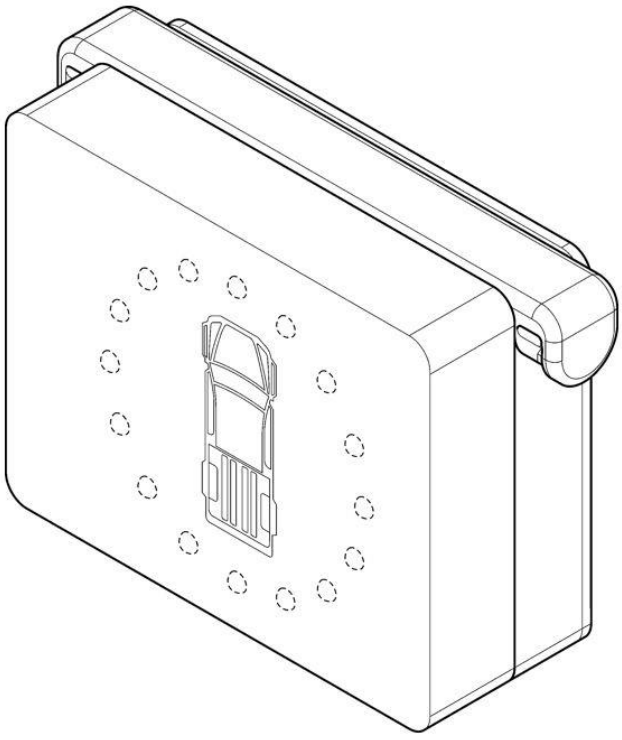
21: A2022/01125 22: 2022-09-21 23:
43: 2022-09-21
52: Class 3 24: Part A
71: CRAGG, Paul Edward
54: CRUTCH TOP PIECES
57: A crutch top piece is elongate and orientated operatively upright, being slightly rearwardly tilted. The piece includes standard connections for a handle or hand grip, an arm ring, and a main pole. The piece tapers gently upwardly, both in a front-to-back direction and in a side-to-side direction. The piece defines three apertures (best seen in side view) spaced along its length. The apertures are elongate and decrease in size from bottom to top. The apertures are generally oblong, with the lower and upper being of uniform width along their length and the middle aperture decreasing slightly in width from bottom to top.



21: A2022/01127 22: 2022-09-22 23:
43: 2023-04-13
52: Class 14 24: Part A
71: POLYGON TECHNOLOGIES CC
54: SECURITY SYSTEM BASE RECEIVER
57: The design is applied to a security system base receiver. 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 security system base receiver, substantially as illustrated in the accompanying representation. Features shown in broken lines do not form part of the design and are disclaimed.

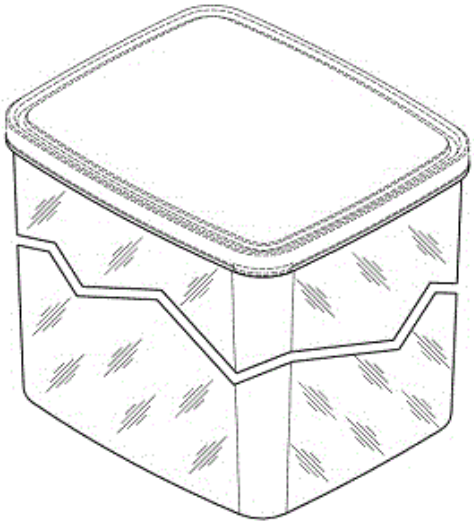


21: A2022/01128 22: 2022-09-22 23: 2022-08-18
43: 2023-04-13
52: Class 10 24: Part A
71: O'CALLAGHAN, Jaco
54: DIRECTION SIGNALLING ACCESSORY
57: The design is applied to a direction signalling accessory. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern and/or ornamentation of the direction signalling accessory, substantially as illustrated in the accompanying representation.



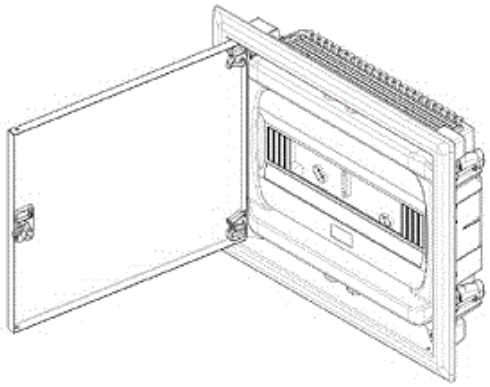
THREE-DIMENSIONAL FRONT VIEW WITH LIGHTS OFF

21: A2022/01129 22: 2022-09-22 23:
43: 2023-04-13
52: Class 9. 24: Part A
71: PALEOPET PURE RAW FOOD FOR PETS
54: A Tub Container
57: The design relates to a tub container. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



PERSPECTIVE VIEW

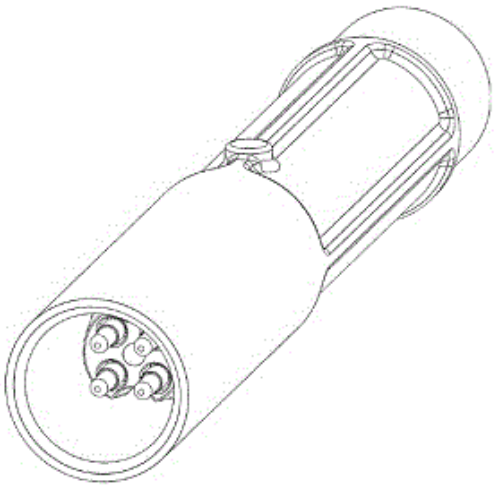
21: A2022/01135 22: 2022-09-23 23: 2022-06-30
43: 2023-04-13
52: Class 13. 24: Part A
71: IDE ELECTRIC S.L.
33: EM 31: 008920110-0001 32: 2022-03-29
54: Electrical Switchbox
57: The design relates to an electrical switchbox. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



PERSPECTIVE VIEW OPEN CONFIGURATION

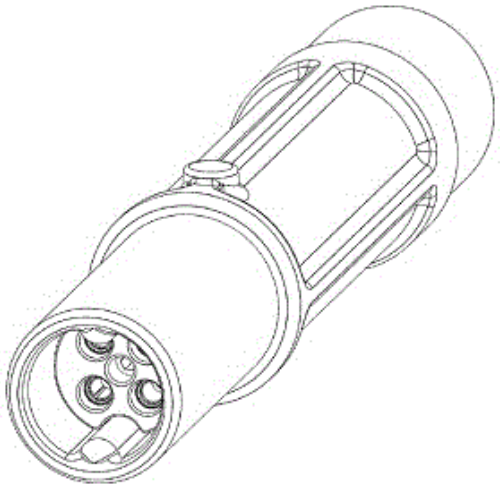
21: A2022/01138 22: 2022-09-23 23:

43: 2023-04-13
52: Class 13. 24: Part A
71: CONNEC LIMITED
33: AU 31: 202211752 32: 2022-03-25
54: Connector for a Power Transmission and Communications System
57: The design relates to a connector for a power transmission and communications system. The features of the design are those of shape and/or configuration and/or pattern.



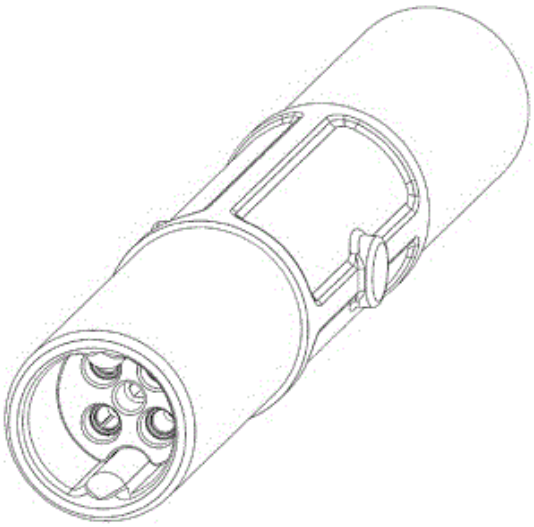
FRONT PERSPECTIVE VIEW

21: A2022/01139 22: 2022-09-23 23:
43: 2023-04-13
52: Class 13. 24: Part A
71: CONNEC LIMITED
33: AU 31: 202211753 32: 2022-03-25
54: Connector for a Power Transmission and Communications System
57: The design relates to a connector for a power transmission and communications system. The features of the design are those of shape and/or configuration and/or pattern.



FRONT PERSPECTIVE VIEW

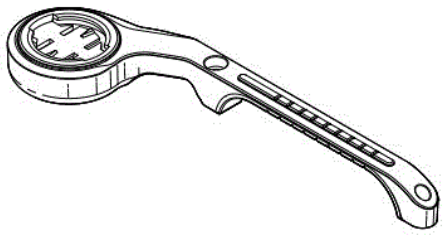
21: A2022/01140 22: 2022-09-23 23:
43: 2023-04-13
52: Class 13. 24: Part A
71: CONNEC LIMITED
33: AU 31: 202211755 32: 2022-03-25
54: Back-to-Back Connector for a Power Transmission and Communications System
57: The design relates to a back-to-back connector for a power transmission and communications system. The features of the design are those of shape and/or configuration and/or pattern.



FRONT PERSPECTIVE VIEW

21: A2022/01147 22: 2022-09-27 23:
43: 2023-04-14
52: Class 12 24: Part A
71: RI INVESTMENTS (PTY) LTD
54: ACCESSORY MOUNTS FOR BICYCLES

57: The design relates to accessory mounts for bicycles. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



TOP PERSPECTIVE VIEW

21: A2022/01153 22: 2022-09-29 23:
43: 2022-03-30
52: Class 24 24: Part A
71: Janssen Biotech, Inc.
33: US 31: 29/832,830 32: 2022-03-30
54: DRUG DELIVERY SYSTEMS
57: A drug delivery device for injecting a drug into a patient comprises a container for storing the drug therein, a housing that receives the container, and adhesive for adhering the device to a patient.

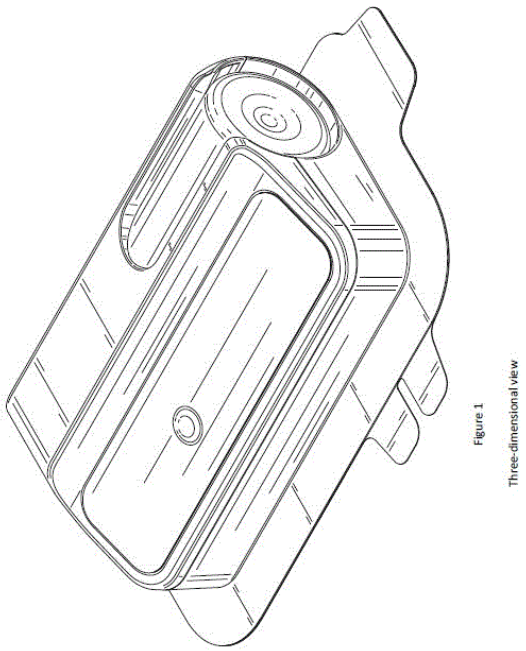


Figure 1
Three-dimensional view

21: A2022/01154 22: 2022-09-29 23:
43: 2022-03-30
52: Class 24 24: Part A
71: Janssen Biotech, Inc.
33: US 31: 29/832,834 32: 2022-03-30
54: DRUG DELIVERY SYSTEMS
57: A drug delivery device for injecting a drug into a patient comprises a container for storing the drug therein, and a housing that receives the container.

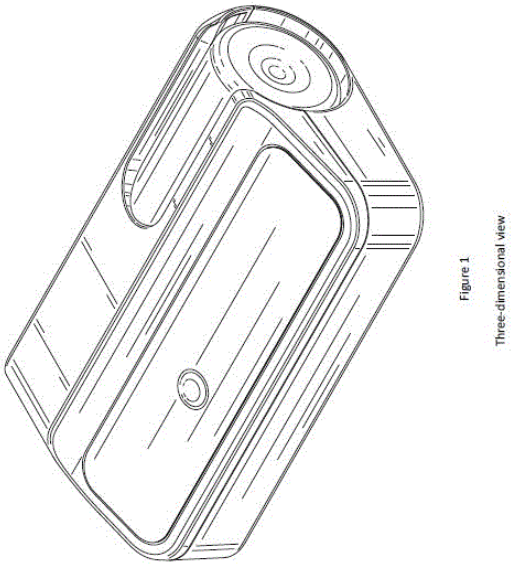


Figure 1
Three-dimensional view

21: A2022/01164 22: 2022-09-29 23:
43: 2022-03-30
52: Class 12 24: Part A
71: Chery Automobile Co., Ltd.
33: CN 31: 202230172782.2 32: 2022-03-30
54: CARS
57: The design is for a car having a body comprising an engine compartment, a passenger compartment, and a luggage compartment. A front face includes a large matrix-like grille flanked by rearwardly extending trapezium-shaped LED headlights and daytime running lights that curve upwardly rearwardly along each side of the car. A pair of pentagonal formations flank a bottom of the grille. A waistline runs along each side of the car below each window. A rear includes an elongate spoiler with a slender light strip above a rear window. A bottom of the rear includes a pair of sharply angular through-type taillights that extend over rear fenders. A pair of parallelogram-shaped fog lights are positioned on a lower portion of a bumper above a pair of parallelogram-shaped exhaust outlets.

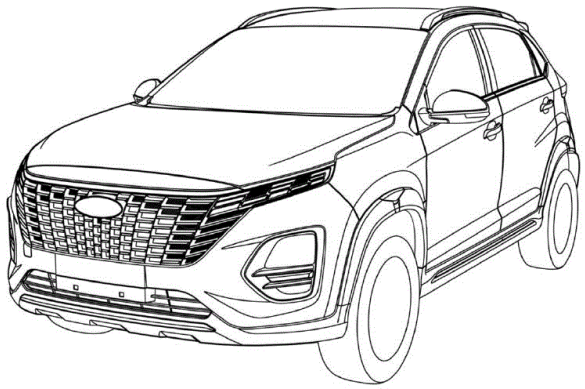


Figure 1

Three-dimensional view

21: A2022/01165 22: 2022-09-29 23:
43: 2022-03-30
52: Class 24 24: Part A
71: Janssen Biotech, Inc.
33: US 31: 29/832,846 32: 2022-03-30
54: DRUG DELIVERY SYSTEMS
57: A drug delivery device for injecting a drug into a patient comprises a container for storing the drug therein, a housing that receives the container, and adhesive for adhering the device to a patient.

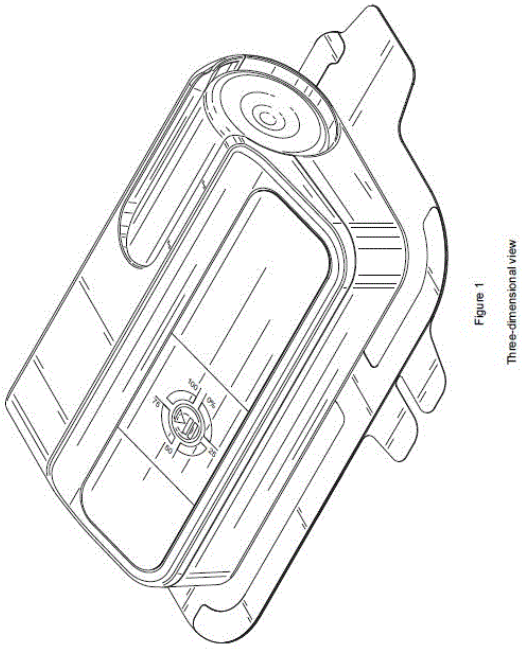
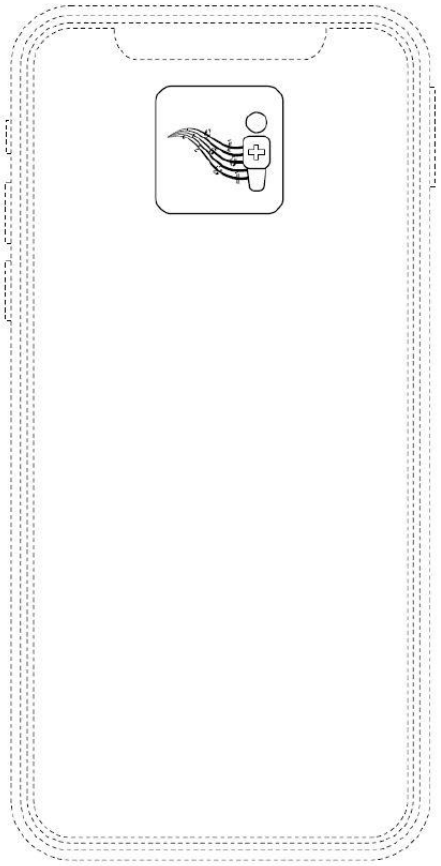


Figure 1

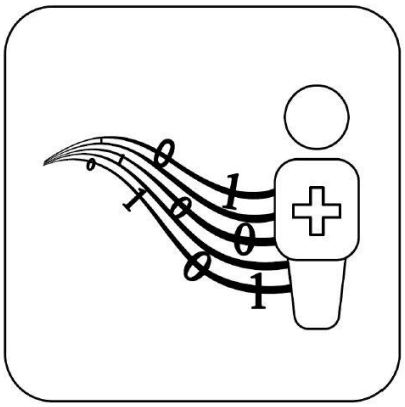
Three-dimensional view

21: A2022/01174 22: 2022-09-30 23:
43: 2023-04-14
52: Class 14 24: Part A
71: VYAIRE MEDICAL, INC.
33: US 31: 29/833,071 32: 2022-03-31
54: DISPLAY SCREEN WITH GRAPHICAL ICON
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 display screen with graphical icon substantially as illustrated in the accompanying representations, wherein the peripheral broken lines illustrate a display screen of a computing device, or portion thereof, and form no part of the claimed design, and wherein the portions of the icon shown in broken lines form no part of the claimed design.

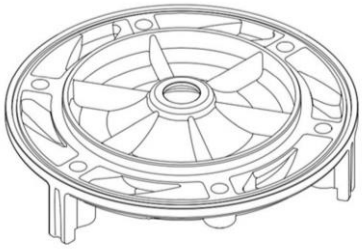


21: A2022/01175 22: 2022-09-30 23:
43: 2023-04-14
52: Class 14 24: Part A
71: VYAIRE MEDICAL, INC.
33: US 31: 29/833,071 32: 2022-03-31
54: DISPLAY SCREEN WITH GRAPHICAL ICON
57: The features of the design for which protection is claimed reside in the shape and/or configuration and/or pattern and/or ornamentation of a display

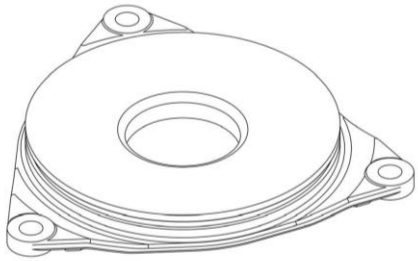
screen with graphical icon substantially as illustrated in the accompanying representations.



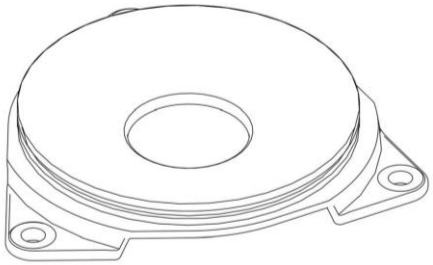
21: A2022/01179 22: 2022-10-04 23:
43: 2023-05-19
52: Class 15 24: Part A
71: 7D Team Pty Ltd
33: AU 31: 202211960 32: 2022-04-04
54: DIFFUSER FOR A PUMP
57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



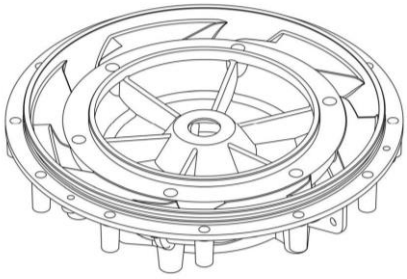
21: A2022/01181 22: 2022-10-04 23:
43: 2023-05-19
52: Class 15 24: Part A
71: 7D Team Pty Ltd
33: AU 31: 202211961 32: 2022-04-04
54: WEAR PLATE FOR A PUMP
57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



21: A2022/01183 22: 2022-10-04 23:
43: 2023-05-19
52: Class 15 24: Part A
71: 7D Team Pty Ltd
33: AU 31: 202211962 32: 2022-04-04
54: WEAR PLATE FOR A PUMP
57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).

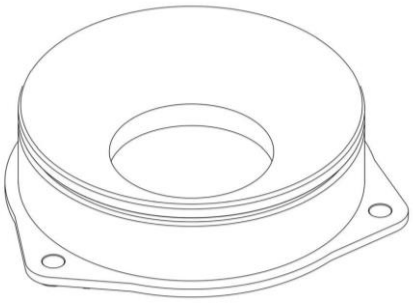


21: A2022/01185 22: 2022-10-04 23:
43: 2023-05-19
52: Class 15 24: Part A
71: 7D Team Pty Ltd
33: AU 31: 202211963 32: 2022-04-04
54: DIFFUSER FOR A PUMP
57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).

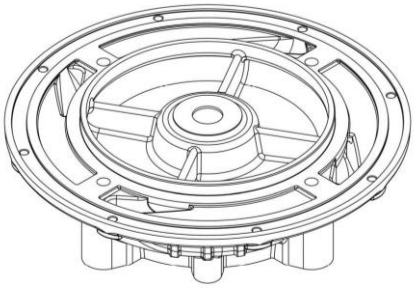


21: A2022/01187 22: 2022-10-04 23:

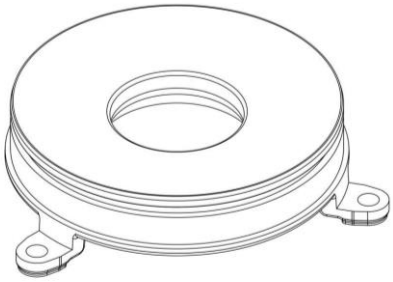
43: 2023-05-19
52: Class 15 24: Part A
71: 7D Team Pty Ltd
33: AU 31: 202211964 32: 2022-04-04
54: WEAR PLATE FOR A PUMP
57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



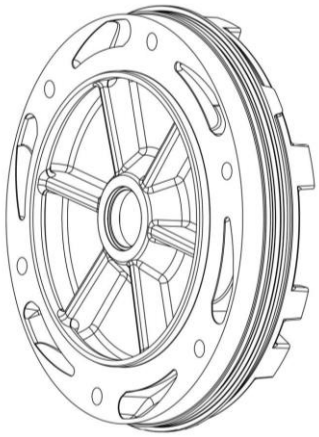
21: A2022/01189 22: 2022-10-04 23:
43: 2023-05-19
52: Class 15 24: Part A
71: 7D Team Pty Ltd
33: AU 31: 202213026 32: 2022-05-25
54: DIFFUSER FOR A PUMP
57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



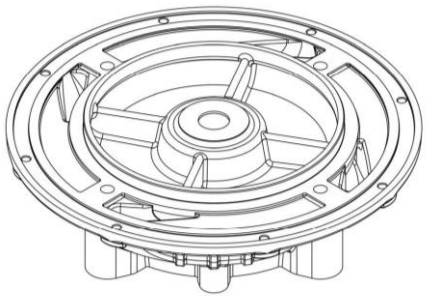
21: A2022/01191 22: 2022-10-04 23:
43: 2023-05-19
52: Class 15 24: Part A
71: 7D Team Pty Ltd
33: AU 31: 202213027 32: 2022-05-25
54: WEAR PLATE FOR A PUMP
57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



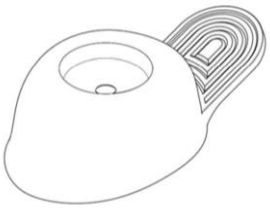
21: A2022/01194 22: 2022-10-04 23:
43: 2023-05-19
52: Class 15 24: Part A
71: 7D Team Pty Ltd
33: AU 31: 202213028 32: 2022-05-25
54: DIFFUSER FOR A PUMP
57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



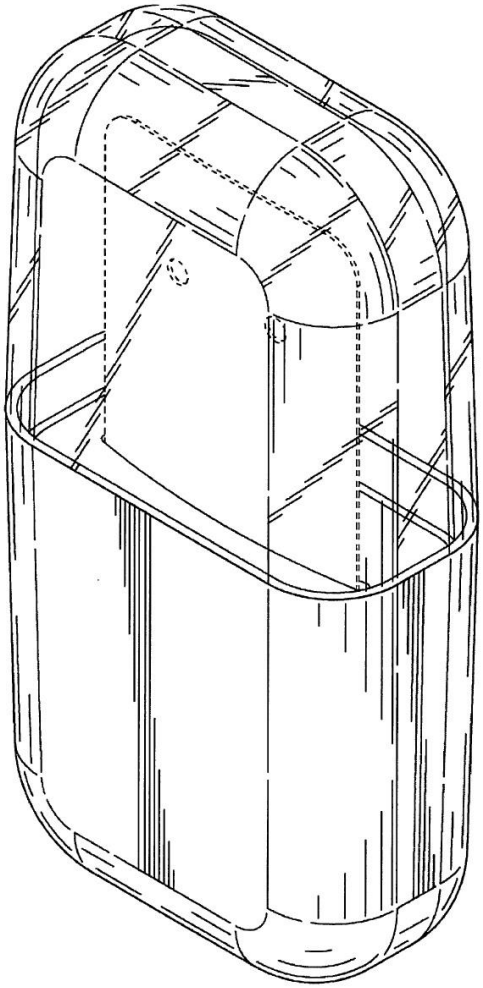
21: A2022/01196 22: 2022-10-04 23:
43: 2023-05-19
52: Class 15 24: Part A
71: 7D Team Pty Ltd
33: AU 31: 202213029 32: 2022-05-25
54: WEAR PLATE FOR A PUMP
57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



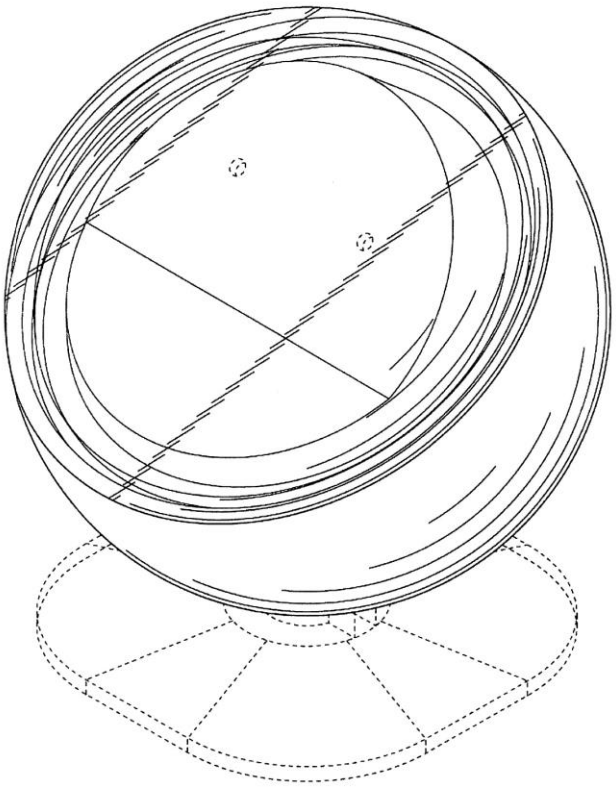
21: A2022/01198 22: 2022-10-04 23:
43: 2023-05-12
52: Class 24 24: Part A
71: Bhavesh GOKANI
33: GB 31: 6200669 32: 2022-04-06
54: EYE DROP APPLICATOR
57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



21: A2022/01200 22: 2022-10-04 23:
43: 2023-05-12
52: Class 03 24: Part A
71: GORAN REIL
54: PRODUCT CASE
57: The design is in respect of a product case. More particularly, the product case is a product case for jewelry. The product case comprises two components which are removably connectable to each other and configured to form a pod when the same are connected. The components, when connected define an interior cavity which, in use, will contain the jewelry. Albeit that the preferred embodiment is a pod for jewelry it will be a appreciated that such product case may have broader application.



21: A2022/01201 22: 2022-10-04 23:
43: 2023-05-12
52: Class 03 24: Part A
71: GORAN REIL
54: JEWELRY CASE
57: The design is in respect of jewelry case. The jewelry case is substantially sphere-shaped (bubble-shaped) and may or may not have a clear closure through which the jewelry can be seen when the closure is in a closed position. This closure may be removably attachable to a jewelry case body alternatively manufactured so as to form a part thereof which is not removable. The interior cavity in the “bubble” provides the surface upon which the jewelry is placed and the closure the mechanism through which it is viewed. Albeit that this jewelry case is envisaged for use in displaying earrings it will be appreciated by a person skilled in the art that the function of the jewelry case is by no means limited to earrings.



21: A2022/01210 22: 2022-10-06 23:
43: 2023-05-12
52: Class 23 24: Part A
71: HANSGROHE SE
33: EU 31: 08942106-0001 32: 2022-04-19
54: WASHBASIN
57: The novelty of the design resides in the shape or configuration of a washbasin substantially as shown in the accompanying representation.



21: A2022/01211 22: 2022-10-06 23:
43: 2023-05-12
52: Class 23 24: Part A
71: HANSGROHE SE
33: EU 31: 008942106-0002 32: 2022-04-19
54: WASHBASIN
57: The novelty of the design resides in the shape or configuration of a washbasin substantially as shown in the accompanying representation.



21: A2022/01243 22: 2022-10-06 23:
43: 2023-05-12
52: Class 23 24: Part A
71: HANSGROHE SE
33: EU 31: 008942106-0004 32: 2022-04-19
54: WASHBASIN
57: The novelty of the design resides in the shape or configuration of a washbasin substantially as shown in the accompanying representation.



21: A2022/01244 22: 2022-10-06 23:
43: 2023-05-12
52: Class 23 24: Part A
71: HANSGROHE SE
33: EU 31: 008942106-0005 32: 2022-04-19
54: TOILET BOWL

57: The novelty of the design resides in the shape or configuration of a toilet bowl substantially as shown in the accompanying representation.



21: A2022/01245 22: 2022-10-06 23:
43: 2023-05-12
52: Class 23 24: Part A
71: HANSGROHE SE
33: EU 31: 008942106-0007 32: 2022-04-19
54: TOILET BOWL
57: The novelty of the design resides in the shape or configuration of a toilet bowl substantially as shown in the accompanying representation.



21: A2022/01246 22: 2022-10-06 23:
43: 2023-05-12
52: Class 23 24: Part A
71: HANSGROHE SE
33: EU 31: 008942106-0009 32: 2022-04-19
54: TOILET BOWL
57: The novelty of the design resides in the shape or configuration of a toilet bowl substantially as shown in the accompanying representation.



21: A2022/01247 22: 2022-10-06 23:
43: 2023-05-12
52: Class 23 24: Part A
71: HANSGROHE SE
33: EU 31: 008942106-0011 32: 2022-04-19
54: TOILET BOWL
57: The novelty of the design resides in the shape or configuration of a toilet bowl substantially as shown in the accompanying representation.



21: A2022/01249 22: 2022-10-10 23:
43: 2023-05-11
52: Class 11 24: Part A
71: CHALLENGER COAL (PTY) LTD
54: GOLD-PLATED DINOSAUR

57: The design relates to a gold-plated dinosaur. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation. The gold-plated dinosaur includes a dinosaur skeleton, where the whole surface area of the dinosaur skeleton has been gold-plated.



21: A2022/01250 22: 2022-10-10 23:
43: 2023-05-11
52: Class 21 24: Part A
71: CHALLENGER COAL (PTY) LTD
54: GOLD-PLATED DINOSAUR
57: The design relates to a gold-plated dinosaur. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation. The gold-plated dinosaur includes a dinosaur skeleton, where the whole surface area of the dinosaur skeleton has been gold-plated.



21: A2022/01251 22: 2022-10-10 23:
43: 2023-05-12
52: Class 11 24: Part A
71: CHALLENGER COAL (PTY) LTD
54: GOLD-PLATED DINOSAUR
57: The design relates to a gold-plated dinosaur. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation. The gold-plated dinosaur includes a dinosaur skeleton, where the whole surface area of the dinosaur skeleton has been gold-plated.



21: A2022/01252 22: 2022-10-10 23:
43: 2023-05-12
52: Class 21 24: Part A
71: CHALLENGER COAL (PTY) LTD
54: GOLD-PLATED DINOSAUR

57: The design relates to a gold-plated dinosaur. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation. The gold-plated dinosaur includes a dinosaur skeleton, where the whole surface area of the dinosaur skeleton has been gold-plated.



21: A2022/01253 22: 2022-10-10 23:
43: 2023-05-12
52: Class 11 24: Part A
71: CHALLENGER COAL (PTY) LTD
54: GOLD-PLATED DINOSAUR
57: The design relates to a gold-plated dinosaur. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation. The gold-plated dinosaur includes a dinosaur skeleton, where the whole surface area of the dinosaur skeleton has been gold-plated.



21: A2022/01254 22: 2022-10-10 23:
43: 2023-05-12
52: Class 21 24: Part A
71: CHALLENGER COAL (PTY) LTD
54: GOLD-PLATED DINOSAUR
57: The design relates to a gold-plated dinosaur. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation. The gold-plated dinosaur includes a dinosaur skeleton, where the whole surface area of the dinosaur skeleton has been gold-plated.



21: A2022/01285 22: 2022-10-13 23:
43: 2023-05-11
52: Class 09 24: Part A
71: GRAND PLASTICS (PTY) LTD
54: A PACKAGING CONTAINER
57: The design is applied to a packaging container. 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 container, substantially as illustrated in the accompanying representation. Features of score lines (A) and fold lines (B) shown in broken lines do not form part of the design and are disclaimed.

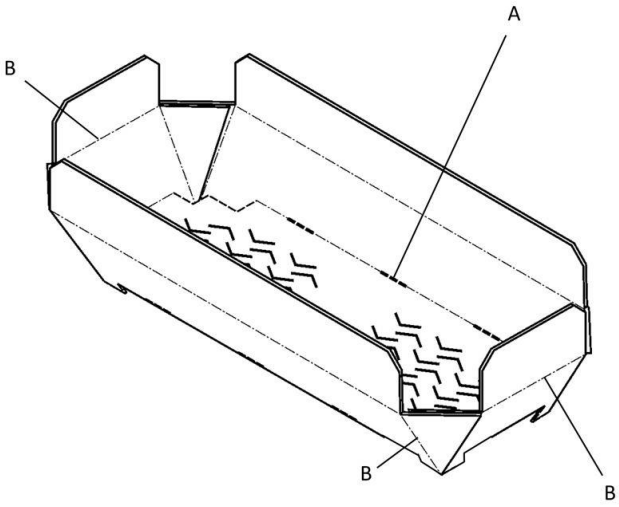


FIG. 5 THREE-DIMENSIONAL VIEW

21: A2022/01287 22: 2022-10-13 23:
43: 2023-05-11
52: Class 09 24: Part A
71: GRAND PLASTICS (PTY) LTD
54: A PACKAGING CONTAINER
57: The design is applied to a packaging container. 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 container, substantially as illustrated in the accompanying representation. Features of score lines (A) and fold lines (B) shown in broken lines do not form part of the design and are disclaimed.

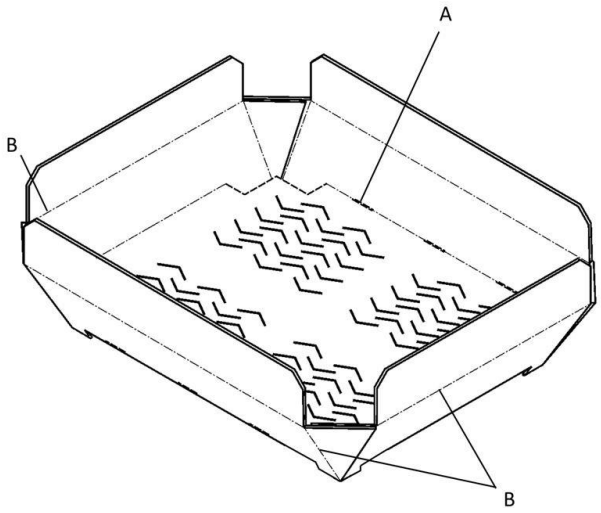


FIG. 5 THREE-DIMENSIONAL VIEW

21: A2022/01289 22: 2022-10-13 23:
43: 2023-05-11
52: Class 09 24: Part A
71: GRAND PLASTICS (PTY) LTD
54: A PACKAGING CONTAINER
57: The design is applied to a packaging container. 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 container, substantially as illustrated in the accompanying representation. Features of score lines (A) and fold lines (B) shown in broken lines do not form part of the design and are disclaimed.

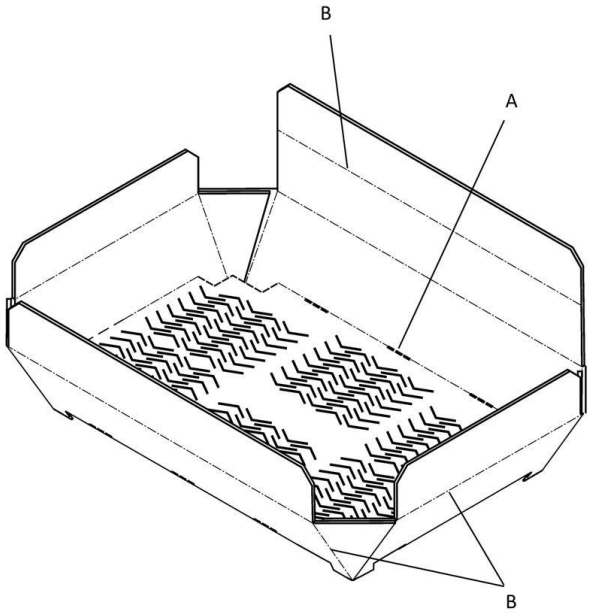
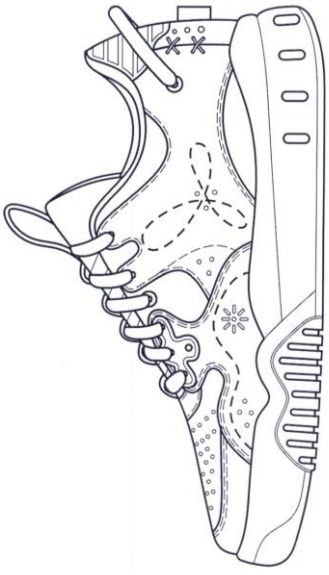


FIG. 6 THREE-DIMENSIONAL VIEW

21: A2022/01378 22: 2022-10-31 23:
43: 2023-05-12
52: Class 02 24: Part A
71: MONOSI MOVEMENTS (PTY) LTD
54: SHOE
57: The novelty of the design resides in the shape and/or pattern and/or ornamentation of one side of a shoe as shown in the accompanying drawing.



21: A2022/01425 22: 2022-11-10 23:

43: 2023-06-07
52: Class 23 24: Part A
71: HANSGROHE SE
33: EU 31: 009024987-0001 32: 2022-05-12
54: WASHBASIN
57: The features of the design for which protection is claimed are those of the shape and/or configuration of the washbasin substantially as illustrated in the accompanying drawing.



21: A2022/01426 22: 2022-11-10 23:
43: 2023-06-07
52: Class 23 24: Part A
71: HANSGROHE SE
33: EU 31: 009024987-0002 32: 2022-05-12
54: WASHBASIN
57: The features of the design for which protection is claimed are those of the shape and/or configuration of the washbasin substantially as illustrated in the accompanying drawing.



21: A2022/01427 22: 2022-11-10 23:
43: 2023-06-07
52: Class 23 24: Part A
71: HANSGROHE SE
33: EU 31: 009024987-0003 32: 2022-05-12
54: WASHBASIN
57: The features of the design for which protection is claimed are those of the shape and/or configuration of the washbasin substantially as illustrated in the accompanying drawing.



21: A2022/01428 22: 2022-11-10 23:
43: 2023-06-07
52: Class 23 24: Part A
71: HANSGROHE SE
33: EU 31: 009024987-0004 32: 2022-05-12
54: WASHBASIN
57: The features of the design for which protection is claimed are those of the shape and/or configuration of the washbasin substantially as illustrated in the accompanying drawing.



21: A2022/01429 22: 2022-11-10 23:
43: 2023-06-07
52: Class 23 24: Part A
71: HANSGROHE SE
33: EU 31: 009024987-0005 32: 2022-05-12
54: WASHBASIN
57: The features of the design for which protection is claimed are those of the shape and/or configuration of the washbasin substantially as illustrated in the accompanying drawing.



21: A2022/01432 22: 2022-11-10 23:
43: 2023-06-07
52: Class 23 24: Part A
71: HANSGROHE SE
33: EU 31: 009024987-0008 32: 2022-05-12
54: WASHBASIN
57: The features of the design for which protection is claimed are those of the shape and/or configuration of the washbasin substantially as illustrated in the accompanying drawing.



21: A2022/01433 22: 2022-11-10 23:
43: 2023-06-07
52: Class 23 24: Part A
71: HANSGROHE SE
33: EU 31: 009024987-0009 32: 2022-05-12
54: WASHBASIN
57: The features of the design for which protection is claimed are those of the shape and/or configuration of the washbasin substantially as illustrated in the accompanying drawing.

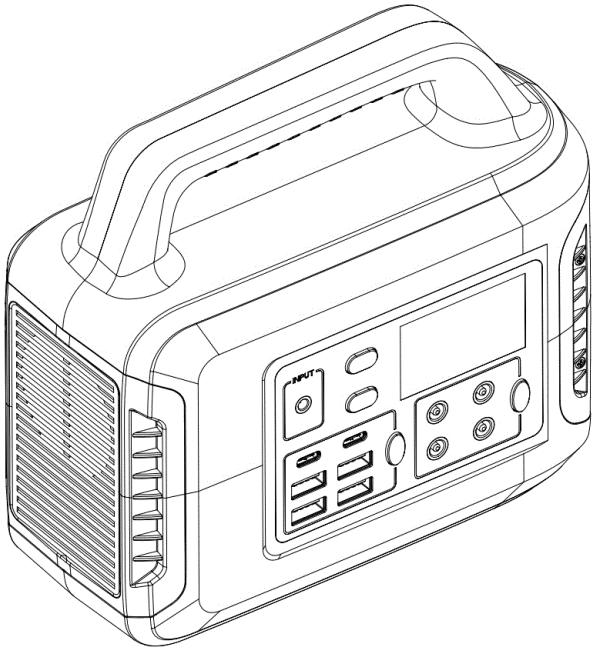


21: A2022/01434 22: 2022-11-10 23:
43: 2023-06-07
52: Class 23 24: Part A
71: HANSGROHE SE
33: EU 31: 009024987-0010 32: 2022-05-12
54: WASHBASIN
57: The features of the design for which protection is claimed are those of the shape and/or configuration

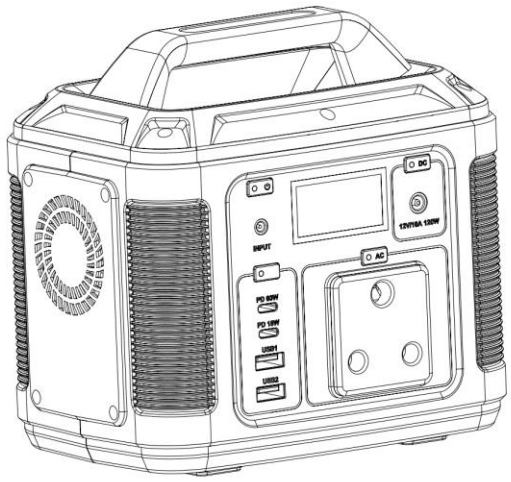
of the washbasin substantially as illustrated in the accompanying drawing.



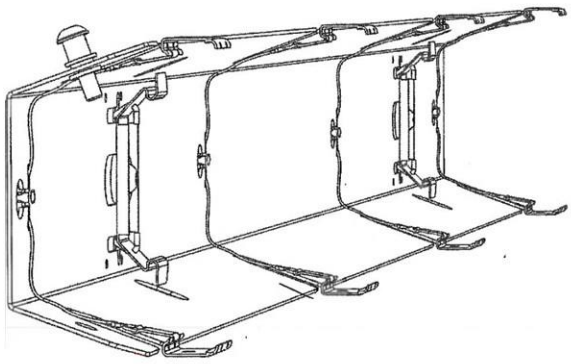
21: A2023/00580 22: 2023-05-16 23:
43: 2023-05-19
52: Class 13 24: Part A
71: Jun Liu
54: POWER SUPPLY UNIT
57: The design relates to a Power Supply Unit. The features of the design are those of shape and/or configuration.



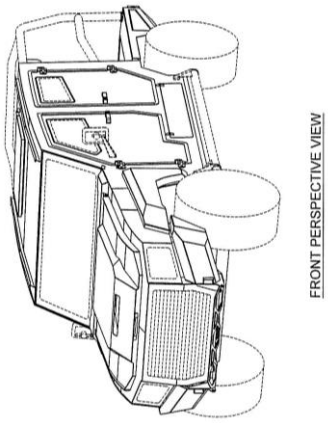
21: A2023/00581 22: 2023-05-16 23:
43: 2023-05-19
52: Class 13 24: Part A
71: Jun Liu
54: POWER SUPPLY UNIT
57: The design relates to a Power Supply Unit. The features of the design are those of shape and/or configuration.



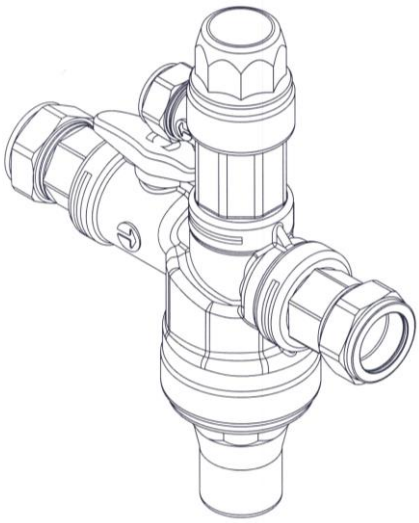
21: F2020/01450 22: 2020-10-23 23:
43: 2023-06-01
52: Class 26 24: Part F
71: BARAUSSE FAMILY TRUST
54: A SHROUD
57: The Novelty of the design resides in the shape and/ configuration of a shroud, substantially as shown in the accompanying representations.



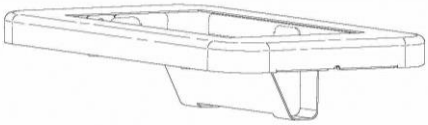
21: F2021/01392 22: 2021-11-08 23: 2021-05-08
43: 2023-05-19
52: Class 12 24: Part F
71: SVI ENGINEERING (PTY) LTD
54: ARMOURED BODY OF A VEHICLE
57: The design relates to an armoured body of a vehicle. The features of the design for which protection is claimed reside in the shape and/or configuration of an armoured body of a vehicle, substantially as shown in the accompanying drawings.



21: F2022/00737 22: 2022-06-24 23: 2021-12-24
43: 2023-05-12
52: Class 23 24: Part F
71: Advanced Valves CC
54: PRESSURE CONTROL VALVE
57: The features for which protection is claimed reside in the shape and/or configuration of a pressure control valve, as shown in the accompanying drawings.

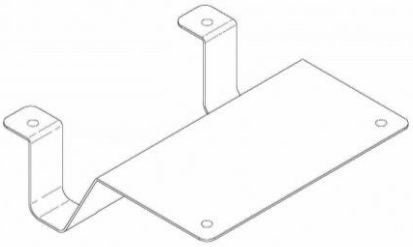


21: F2022/01036 22: 2022-09-02 23:
43: 2022-09-02
52: Class 8 24: Part F
71: PILLAY, Thevendrin
54: Mounting Devices
57: This design relates to a mounting device for mounting a tablet computer to a trolley. The device comprises a tablet holder and a mounting bracket operatively attached thereto. The tablet holder is slab-like with front and rear faces interconnected by sidewalls defining an interior for receiving the tablet. The front face defines a rectangular aperture conforming to dimensions of a touch screen of the tablet thereby allowing users to interact with the tablet. The mounting bracket is attached to the rear face of the tablet holder and has first, second, and third portions, wherein the first and third portions extend in the same plane and attaches to the tablet holder. The second portion extends obliquely from the first portion to a trough and rises transversely therefrom to a pair of spaced apart flanges. The second portion defines a valley for the location of a handle of a shopping trolley therein.



First three-dimensional view

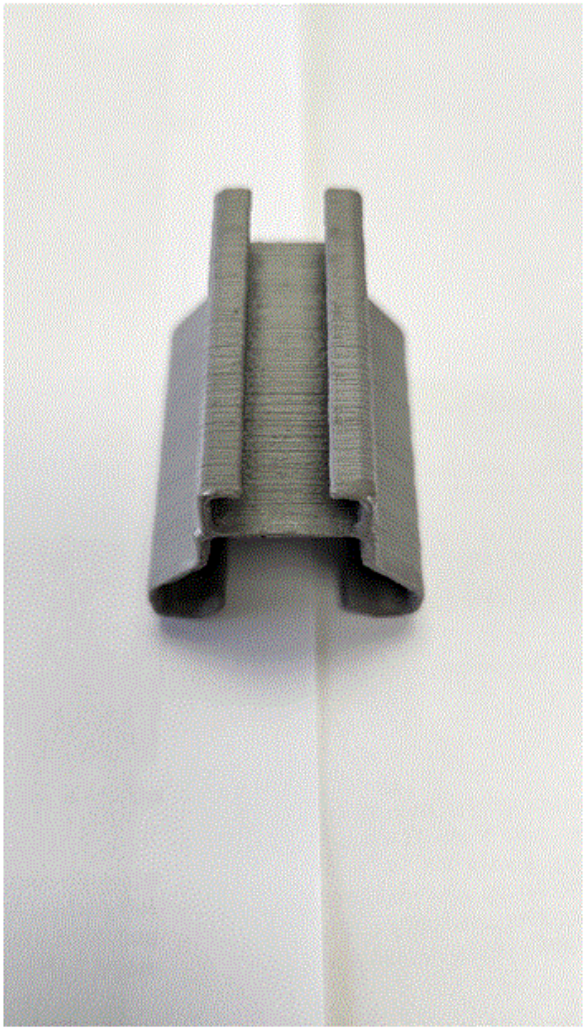
21: F2022/01037 22: 2022-09-02 23:
43: 2022-09-02
52: Class 8 24: Part F
71: PILLAY, Thevendrin
54: Mounting Brackets
57: This design relates to a mounting bracket for mounting a mounting device for mounting a tablet computer to a trolley substantially as shown in the representations. The mounting bracket has first, second, and third portions, wherein the first and third portions extend in the same plane and attaches to a tablet holder for holding the tablet computer, in use. The second portion extends obliquely from the first portion to a trough and rises transversely from said trough to a pair of spaced apart flanges. The second portion defines a valley for the location of a handle of a shopping trolley therein, in use.



First three-dimensional view

21: F2022/01042 22: 2022-09-05 23:
43: 2023-04-14
52: Class 13 24: Part F

71: NIENHUIS, Jan, Balster
54: RAIL FOR MOUNTING SOLAR PANELS 2
57: The design relates to a Rail for Mounting Solar Panels. The features of the design are those of shape and/or configuration.



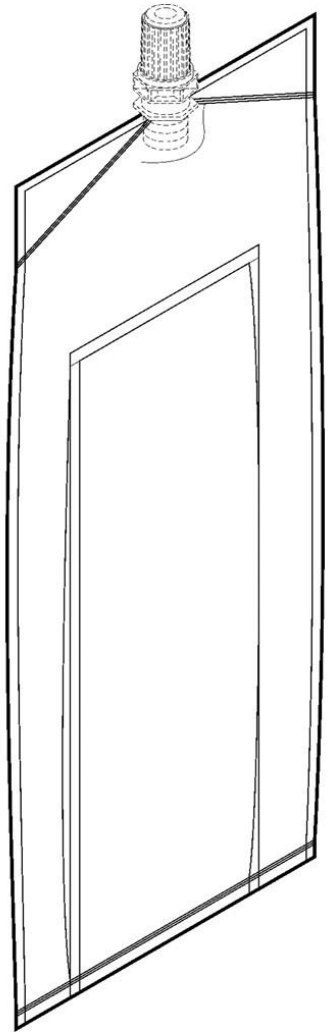
21: F2022/01043 22: 2022-09-05 23:
43: 2023-04-20
52: Class 13 24: Part F
71: NIENHUIS, Jan, Balster
54: BRACKET FOR MOUNTING SOLAR PANELS ON A CORRUGATED ROOF
57: The features of the design are those of shape and/or configuration. The design relates to a Bracket for Mounting Solar Panels on a Corrugated Roof as shown in the accompanying photographs. The design excludes the nut and screws, which is shown for illustrative purposes. Figure 5 is for Illustrative purposes only.



21: F2022/01044 22: 2022-09-05 23:
43: 2023-04-20
52: Class 13 24: Part F
71: NIENHUIS, Jan, Balster
54: BRACKET FOR MOUNTING SOLAR PANELS ON AN ABR ROOF
57: The features of the design are those of shape and/or configuration. The design relates to a Bracket for Mounting Solar Panels on an ABR Roof as shown in the accompanying photographs. The design excludes the nut and screws, which is shown for illustrative purposes. Figure 5 is for Illustrative purposes only.



21: F2022/01049 22: 2022-09-06 23:
43: 2023-04-13
52: Class 09 24: Part F
71: nomSoco Foods (Pty) Ltd
54: FOOD PACKAGING
57: The design is applied to food packaging. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the food packaging, substantially as illustrated in the accompanying representation. Features shown in broken lines do not form part of the design and are disclaimed.



21: F2022/01064 22: 2022-09-09 23:
43: 2023-04-14
52: Class 08 24: Part F
71: RSI NORTH AMERICA, INC.
33: US 31: 29/830,438 32: 2022-03-11
54: PRESSURE LOCK
57: The features of the design for which protection is claimed reside in the shape and/or configuration and/or pattern of a pressure lock substantially as illustrated in the accompanying representations.

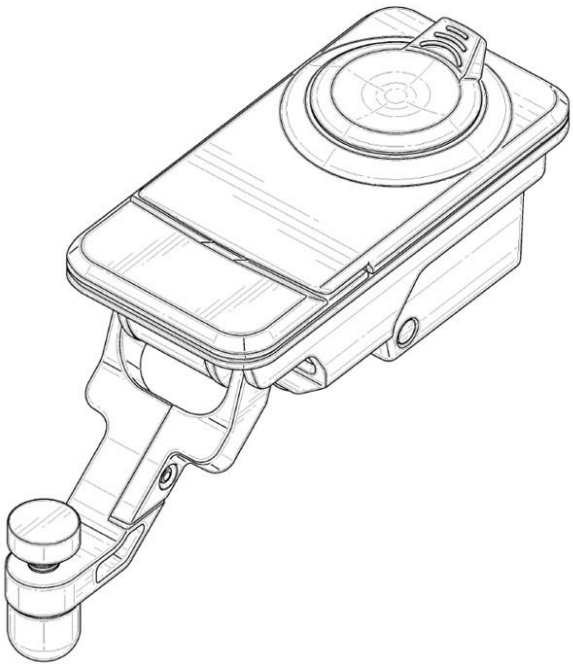


Figure 1

First perspective view of the pressure lock

21: F2022/01066 22: 2022-09-09 23:
43: 2023-04-14
52: Class 08 24: Part F
71: RSI NORTH AMERICA, INC.
33: US 31: 29/830,438 32: 2022-03-11
54: PRESSURE LOCK
57: The features of the design for which protection is claimed reside in the shape and/or configuration and/or pattern of a pressure lock substantially as illustrated in the accompanying representations. The features and parts shown in broken lines in the representations are for illustrative purposes only and form no part of the claimed design.

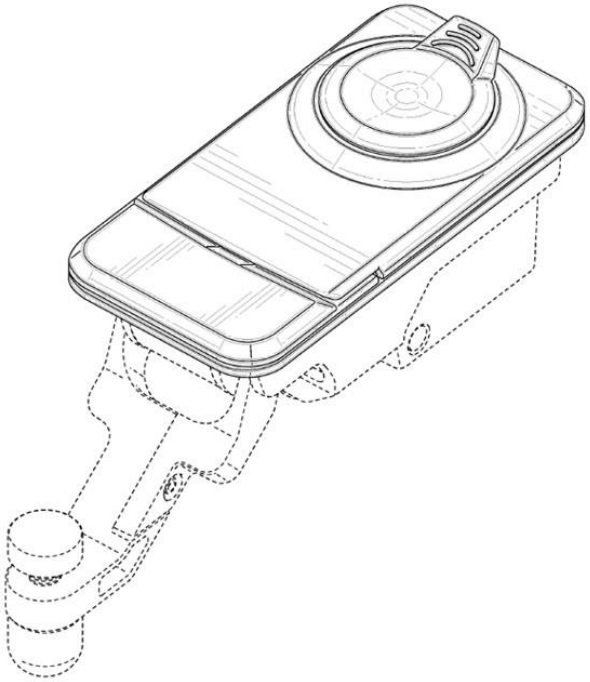


Figure 1

First perspective view of the pressure lock

21: F2022/01068 22: 2022-09-09 23:
43: 2023-04-14
52: Class 08 24: Part F
71: RSI NORTH AMERICA, INC.
33: US 31: 29/830,438 32: 2022-03-11
54: PRESSURE LOCK
57: The features of the design for which protection is claimed reside in the shape and/or configuration and/or pattern of a pressure lock substantially as illustrated in the accompanying representations. The features and parts shown in broken lines in the representations are for illustrative purposes only and form no part of the claimed design.

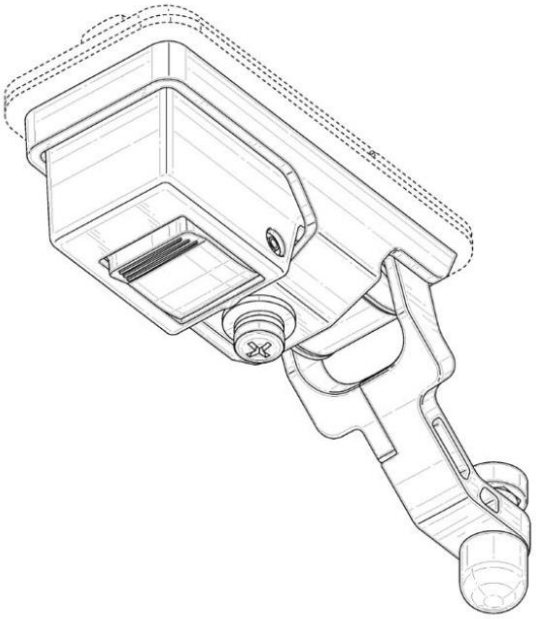
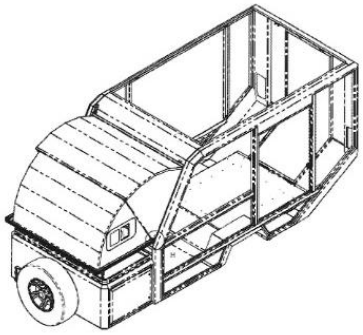


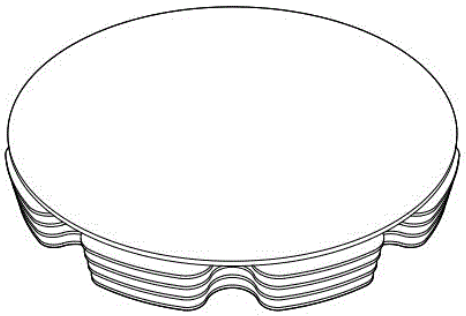
Figure 2

Second perspective view thereof

21: F2022/01071 22: 2022-09-12 23:
43: 2023-04-14
52: Class 12 24: Part F
71: Riaan Ludik
54: A RETRACTABLE COMPARTMENT
57: The features of the design for which protection is claimed are the shape, pattern and configuration of a retractable compartment substantially as illustrated in the accompanying drawings.

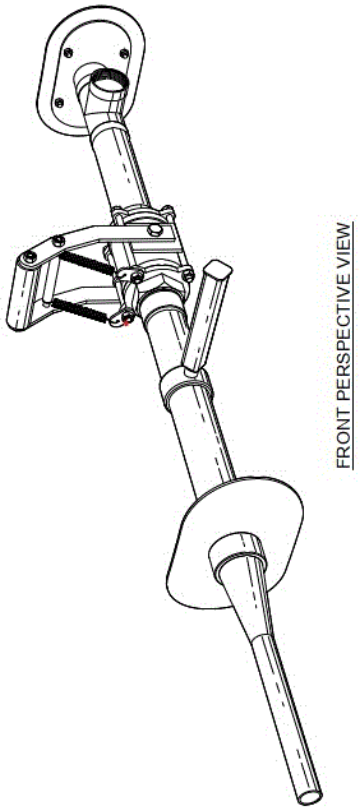


21: F2022/01072 22: 2022-09-13 23:
43: 2023-04-14
52: Class 13 24: Part F
71: POYNTING ANTENNAS (PTY) LIMITED
54: HEAT SINK
57: The features of the design for which protection is claimed comprise the shape and/or configuration and/or pattern of a heat sink substantially as illustrated in the accompanying representations.



TOP PERSPECTIVE VIEW

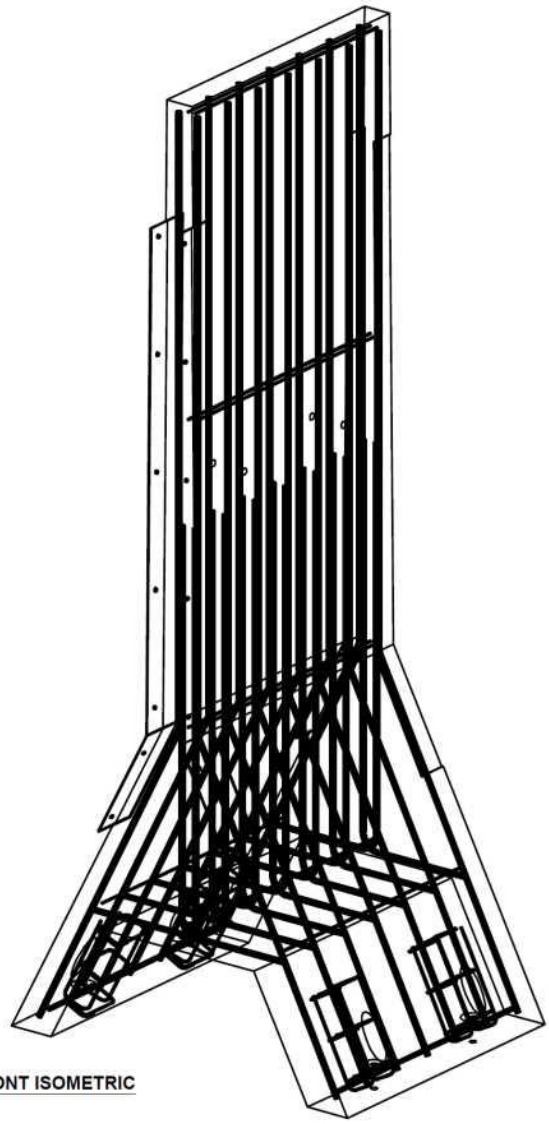
21: F2022/01132 22: 2022-09-23 23:
43: 2023-04-14
52: Class 15 24: Part F
71: RAUTENBACH, James Jackson
54: FLOOR CLEANING APPARATUS
57: The design relates to a floor cleaning apparatus. The features of the design are those of shape and/or configuration and/or pattern.



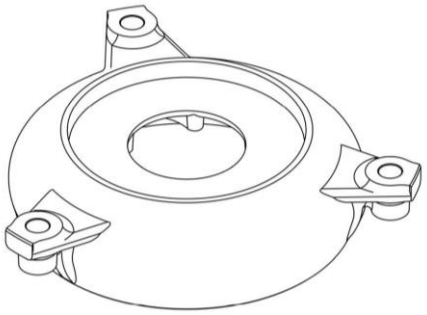
FRONT PERSPECTIVE VIEW

21: F2022/01141 22: 2022-09-26 23: 2022-03-25

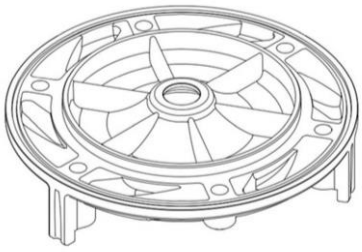
43: 2023-04-20
52: Class 25 24: Part F
71: ReMaCon Products CC
54: REINFORCED BARRIER
57: The features of this design for which protection are claimed include the shape and/or configuration of a reinforced barrier substantially as illustrated in the accompanying representations.



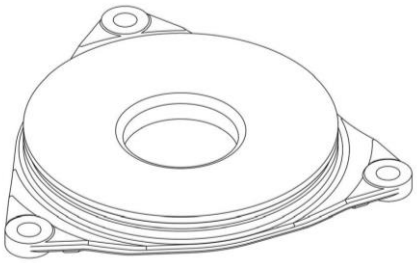
21: F2022/01178 22: 2022-10-04 23:
43: 2023-05-19
52: Class 15 24: Part F
71: 7D Team Pty Ltd
33: AU 31: 202211959 32: 2022-04-04
54: DIFFUSER FOR A PUMP
57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



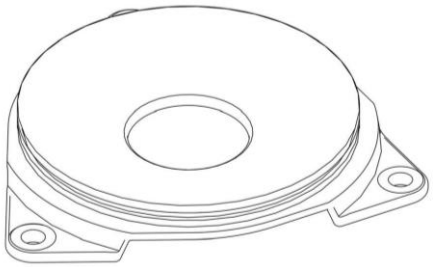
21: F2022/01180 22: 2022-10-04 23:
43: 2023-05-19
52: Class 15 24: Part F
71: 7D Team Pty Ltd
33: AU 31: 202211960 32: 2022-04-04
54: DIFFUSER FOR A PUMP
57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



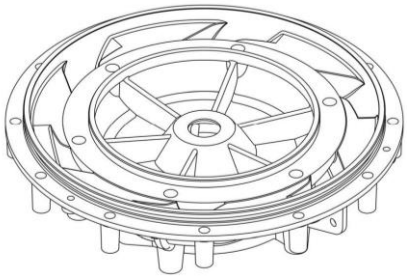
21: F2022/01182 22: 2022-10-04 23:
43: 2023-05-19
52: Class 15 24: Part F
71: 7D Team Pty Ltd
33: AU 31: 202211961 32: 2022-04-04
54: WEAR PLATE FOR A PUMP
57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



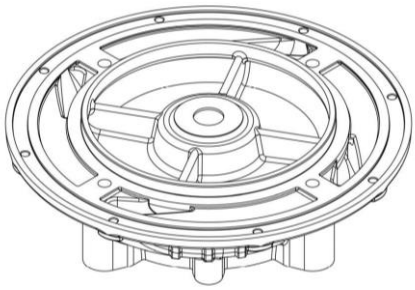
21: F2022/01184 22: 2022-10-04 23:
43: 2023-05-19
52: Class 15 24: Part F
71: 7D Team Pty Ltd
33: AU 31: 202211962 32: 2022-04-04
54: WEAR PLATE FOR A PUMP
57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



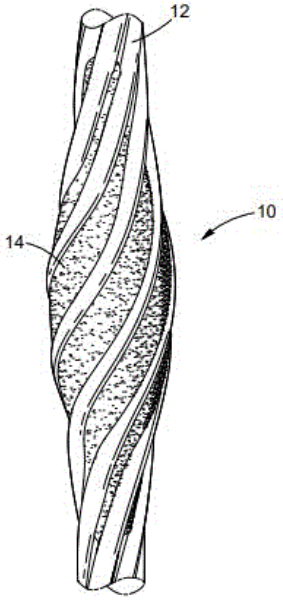
21: F2022/01186 22: 2022-10-04 23:
43: 2023-05-19
52: Class 15 24: Part F
71: 7D Team Pty Ltd
33: AU 31: 202211963 32: 2022-04-04
54: DIFFUSER FOR A PUMP
57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



21: F2022/01190 22: 2022-10-04 23:
43: 2023-05-19
52: Class 15 24: Part F
71: 7D Team Pty Ltd
33: AU 31: 202213026 32: 2022-05-25
54: DIFFUSER FOR A PUMP
57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).

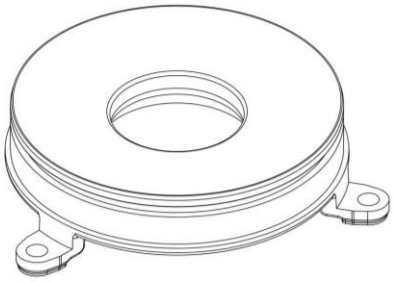


21: F2022/01192 22: 2022-10-04 23:
43: 2023-05-11
52: Class 8 24: Part F
71: DAK ENGINEERING PROPRIETARY LIMITED
54: STRANDED CABLE
57: The features of the design for which protection is claimed comprise the shape and/or configuration and/or pattern of a bulbous region 10 which is formed in a stranded cable 12 and filled with a flexible material 14, substantially as illustrated in the accompanying representations.

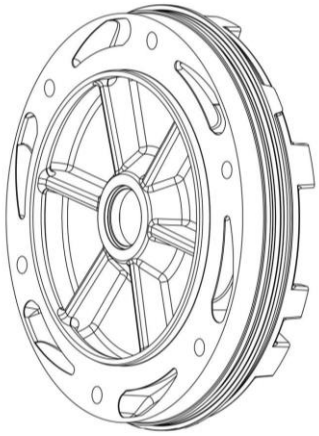


PERSPECTIVE VIEW

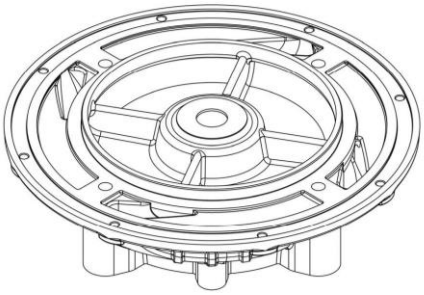
21: F2022/01193 22: 2022-10-04 23:
43: 2023-05-19
52: Class 15 24: Part F
71: 7D Team Pty Ltd
33: AU 31: 202213027 32: 2022-05-25
54: WEAR PLATE FOR A PUMP
57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



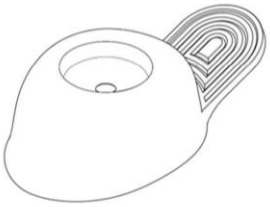
21: F2022/01195 22: 2022-10-04 23:
43: 2023-05-19
52: Class 15 24: Part F
71: 7D Team Pty Ltd
33: AU 31: 202213028 32: 2022-05-25
54: DIFFUSER FOR A PUMP
57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



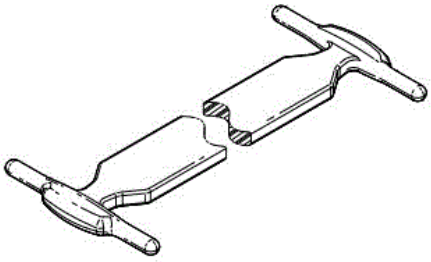
21: F2022/01197 22: 2022-10-04 23:
43: 2023-05-19
52: Class 15 24: Part F
71: 7D Team Pty Ltd
33: AU 31: 202213029 32: 2022-05-25
54: WEAR PLATE FOR A PUMP
57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



21: F2022/01199 22: 2022-10-04 23:
43: 2023-05-12
52: Class 24 24: Part F
71: Bhavesh GOKANI
33: GB 31: 6200669 32: 2022-04-06
54: EYE DROP APPLICATOR
57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).

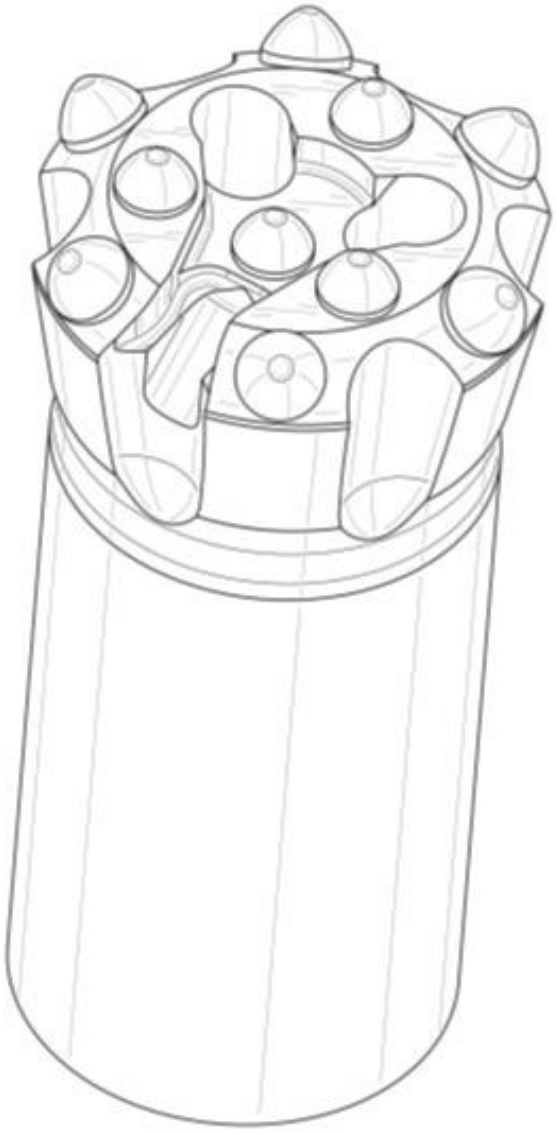


21: F2022/01248 22: 2022-10-10 23: 2022-09-01
43: 2023-05-11
52: Class 2 24: Part F
71: HARRIS, Toni, HARRIS, Chris
54: NOVEL NO-TIE LACE
57: The design relates to a no-tie lace for a shoe. The features of the design for which protection is claimed reside in the shape and/or pattern and/or configuration of the lace substantially as illustrated in the accompanying representations.



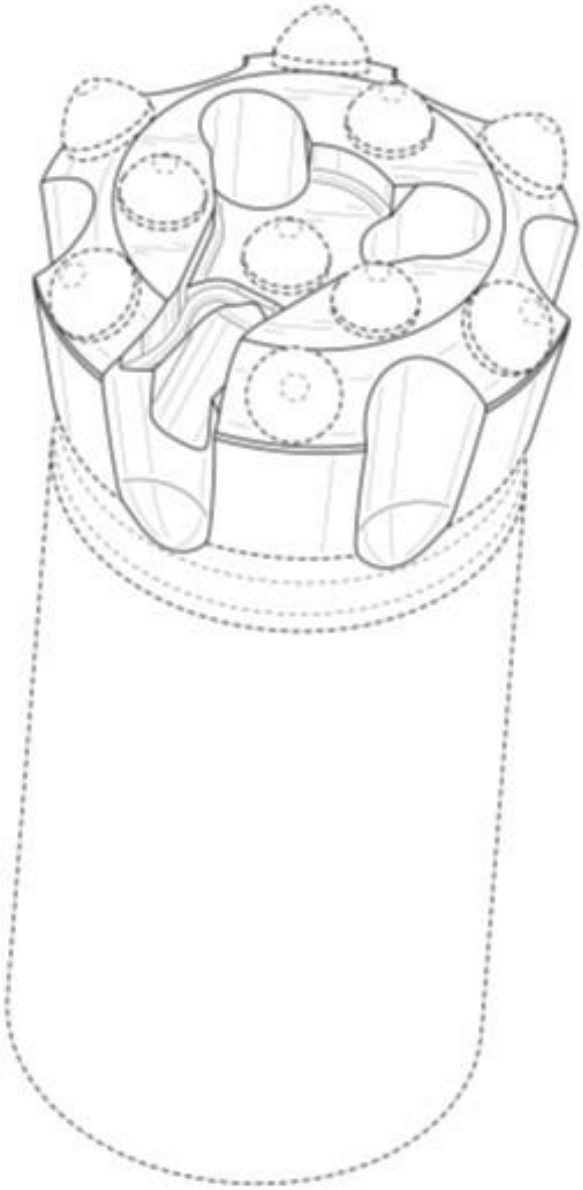
PERSPECTIVE VIEW

21: F2022/01255 22: 2022-10-11 23:
43: 2023-05-11
52: Class 08 24: Part F
71: LONGYEAR TM, INC.
33: US 31: 29/853,641 32: 2022-09-16
54: DRILL BIT
57: The design is applied to a drill bit. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the drill bit, substantially as illustrated in the accompanying representations.



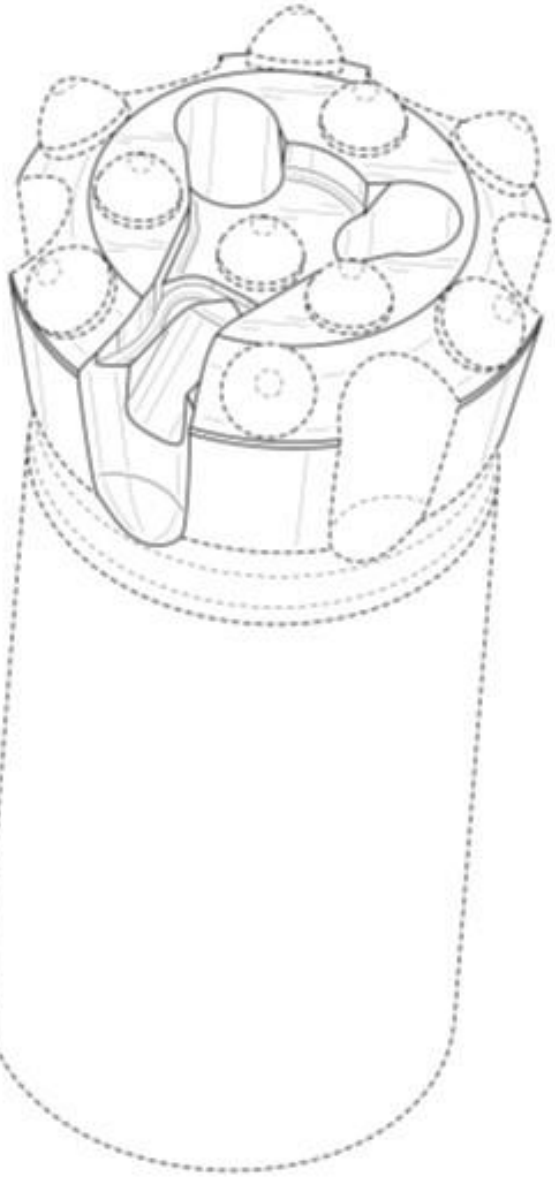
21: F2022/01256 22: 2022-10-11 23:
43: 2023-05-11
52: Class 08 24: Part F
71: LONGYEAR TM, INC.
33: US 31: 29/853,641 32: 2022-09-16

54: DRILL BIT
57: The design is applied to a drill bit. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the drill bit, substantially as illustrated in the accompanying representations. Features shown in broken lines do not form part of the design and are disclaimed.



21: F2022/01257 22: 2022-10-11 23:
43: 2023-05-11
52: Class 08 24: Part F
71: LONGYEAR TM, INC.
33: US 31: 29/853,641 32: 2022-09-16
54: DRILL BIT

57: The design is applied to a drill bit. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the drill bit, substantially as illustrated in the accompanying representations. Features shown in broken lines do not form part of the design and are disclaimed.



21: F2022/01286 22: 2022-10-13 23:
43: 2023-05-11
52: Class 09 24: Part F
71: GRAND PLASTICS (PTY) LTD
54: A PACKAGING CONTAINER
57: The design is applied to a packaging container. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the packaging container, substantially as illustrated in the accompanying representation. Features of score lines (A) and fold lines (B) shown in broken lines do not form part of the design and are disclaimed.

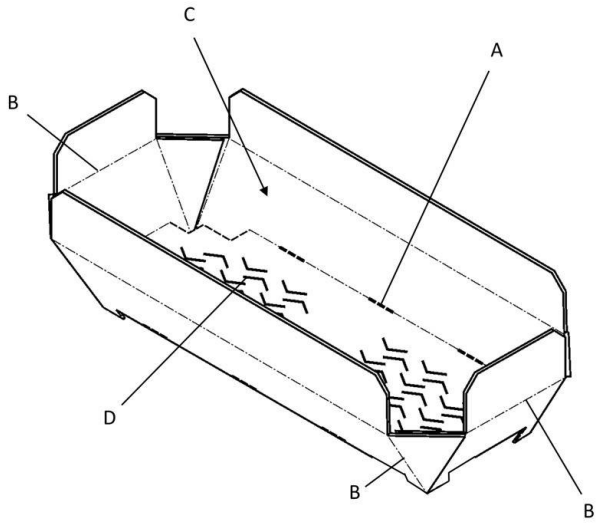


FIG. 5 THREE-DIMENSIONAL VIEW

21: F2022/01288 22: 2022-10-13 23:
43: 2023-05-11
52: Class 09 24: Part F
71: GRAND PLASTICS (PTY) LTD
54: A PACKAGING CONTAINER
57: The design is applied to a packaging container. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the packaging container, substantially as illustrated in the accompanying representation. Features of score lines (A) and fold lines (B) shown in broken lines do not form part of the design and are disclaimed.

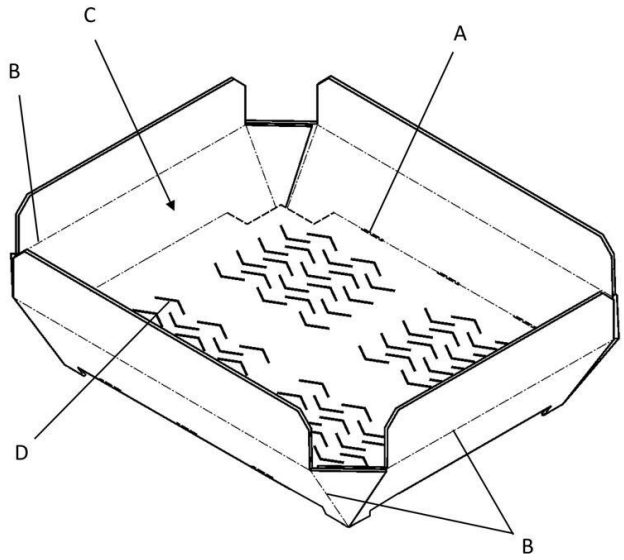


FIG. 5 THREE-DIMENSIONAL VIEW

21: F2022/01290 22: 2022-10-13 23:
43: 2023-05-11
52: Class 09 24: Part F
71: GRAND PLASTICS (PTY) LTD
54: A PACKAGING CONTAINER
57: The design is applied to a packaging container. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the packaging container, substantially as illustrated in the accompanying representation. Features of score lines (A) and fold lines (B) shown in broken lines do not form part of the design and are disclaimed.

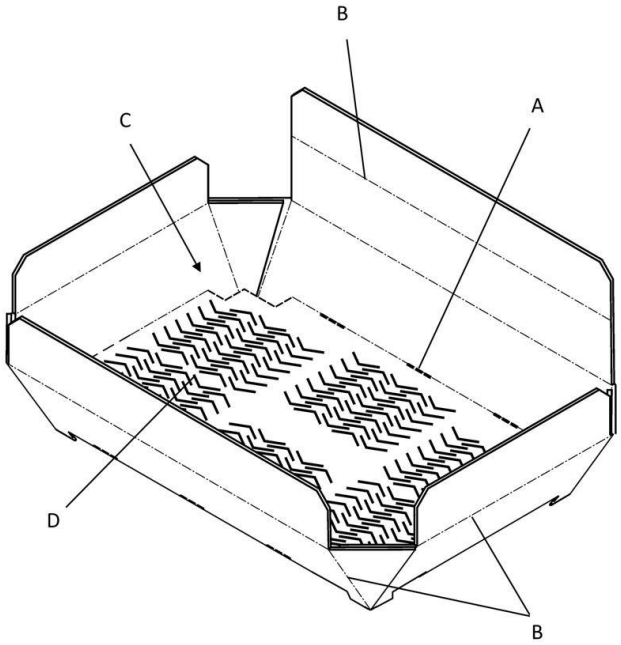
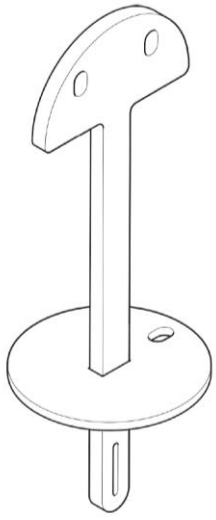


FIG. 6 THREE-DIMENSIONAL VIEW

21: F2022/01412 22: 2022-11-09 23:
43: 2023-06-07
52: Class 08 24: Part F
71: CRAMER, Brent
54: LOCKING DEVICE
57: The features for which protection is claimed reside in the shape and/or configuration of a locking device as shown in the accompanying drawing.



HYPOTHECATIONS

No records available

JUDGMENTS

No records available

OFFICE PRACTISE NOTICES

No records available

4. COPYRIGHT

COPYRIGHT IN CINEMATOGRAPH FILMS

NOTICES OF ACCEPTANCE

(Applications filed in terms of Act No. 62 of 1977)

Any person, who has grounds for objection to the registration of the copyright in any of the following cinematographs films, may within the prescribed time, lodge Notice of Opposition on Form RF 5 contained in the Second Schedule to the Registration of Copyright in Cinematograph Films Regulations, 1980. The prescribed time is one month after the date of advertisement. This period may on application be extended by the Registrar.

The numerical denote the following: **(21)** Official application number. **(22)** Date of application. **(43)** Date of acceptance. **(24)** Date(s) and place(s) at which cinematograph films was made. **(25)** Date and place of first publication. **(71)** Name (s) of all applicant (s). **(75)** Name of author. **(76)** Name of producer **(77)** Name of director **(54)** Title of cinematograph film. **(78)** Name(s) of principal players or narrator. **(26)** Places at which cinematograph film may be viewed and conditions. **(55)** Specimen lodged/Not lodged. **(56)** Preview requested/Not requested. **(57)** Abstract (Storyline). **(58)** Category.

No records available

HYPOTHECATIONS

No records available

JUDGMENTS

No records available

OFFICE PRACTISE NOTICES

No records available

5. CORRECTION NOTICES

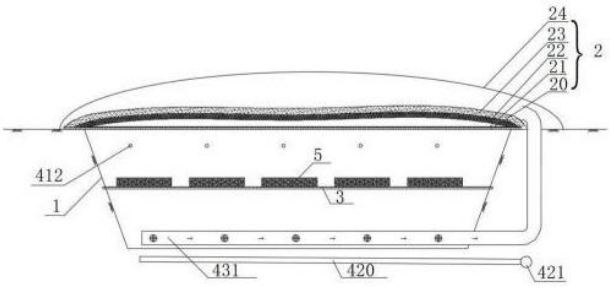
TRADE MARK CORRECTION NOTICES

No records available

PATENT CORRECTION NOTICES

The patent under application no: **2022/12487** was advertised in the April 2023 journal with an incorrect sequence of names of the inventors and this publication should have appeared as the one below and publication date will remain the **26/04/2023.**

21: 2022/12487. 22: 2022/11/16. 43: 2023/03/27
51: A01G
71: SUN, Zhihua, XINJIANG TAIYUAN WATER TECHNOLOGY CO., LTD.
72: **SUN, Zhihua, MA, Yanping, MA, Jun, GUO, Yan, ARKEN, Yasen, UMAR, Husan, YAN, Xixin, BAI, Haili, He, Jun**
33: CN 31: 202111326797.0 32: 2021-11-10
54: UNDERGROUND MUSHROOM PLANTING GREENHOUSE
00: -
The present invention relates to the technical field of mushroom cultivation, and discloses an underground mushroom planting greenhouse which comprises a cultivation groove dug under the ground, a covering structure, a support frame and an environmental control mechanism. In the present application, the cultivation groove is underground, and can still play a good heat preservation role when the temperature is low; the covering structure on the top of the cultivation groove can isolate the temperature above the ground, prevent carbon dioxide in the upper greenhouse from infiltrating into the cultivation groove, ensure stability of air humidity in the cultivation groove, provide air needed for
mushroom growth through a gas control assembly, exhaust the carbon dioxide accumulated during mushroom growth by an exhaust mechanism, and discharge the carbon dioxide into the greenhouse, thereby further improving a heat preservation effect of the greenhouse by using heat preservation characteristics of carbon dioxide.



The patent under application no: **2022/09891** was advertised in the May 2023 journal with an incorrect sequence of names of the inventors and this publication should have appeared as the one below and publication date will remain the **31/05/2023.**

21: 2022/09891. 22: 2022/09/05. 43: 2023/04/03
51: A61K; C07D; A61P
71: BEIGENE, LTD.
72: **XUE, Hai, GUO, Yunhang, WANG, Zhiwe**
33: CN 31: PCT/CN2020/084992 32: 2020-04-15
33: CN 31: PCT/CN2020/100472 32: 2020-07-06
33: CN 31: PCT/CN2020/125580 32: 2020-10-30

33: CN 31: PCT/CN2021/075831 32: 2021-02-07
33: CN 31: PCT/CN2021/086189 32: 2021-04-09
54: BCL-2 INHIBITOR
00: -
Disclosed herein is a compound of Formula (I) for inhibiting both Bcl-2 wild type and mutated Bcl-2, in particular, Bcl-2 G101V and D103Y, and a method of using the compound disclosed herein for treating dysregulated apoptotic diseases.

The notice of acceptance of South African Patent Application No. **2022/13282**, in the name of **SEOUL VIOSYS CO., LTD.** was erroneously published in the Patent Journal of 26 April 2023. Therefore it's publication in the Patent Journal of **26 April 2023** is null and void.

DESIGNS CORRECTION NOTICES

All the Designs applications in the **May 2023** journal were erroneously published with the incorrect release date which appeared as **2020-05-04** and other applications were not supposed to have been advertised with the release date including these applications: **A2022/00998; A2022/01000; A2022/01002; A2022/01004; A2022/01121; F2022/00646; F2022/00999; F2022/01003; F2022/01005.** However the publication date will remain the **31/05/2023.**

COPYRIGHT CORRECTION NOTICES

No records available

PATENTS

Advertisement List for June 2023

Number of Advertised Patents: 689

Application Number	Patent Title	Filing Date
2009/04966	A SYSTEM AND METHOD FOR ORIENTATING SCAN CLOUD DATA RELATIVE TO BASE REFERENCE DATA	2009/07/16
2012/09226	A SYSTEM AND METHOD FOR MEASURING AND MAPPING A SURFACE RELATIVE TO A REFERENCE	2012/12/06
2014/02476	A COMPUTED TOMOGRAPHY IMAGING PROCESS AND SYSTEM	2014/04/03
2015/00112	A MACHINE TOOL	2015/01/08
2015/00506	METHOD AND SYSTEM FOR IMPROVING SPATIAL EFFICIENCY OF A FURNACE SYSTEM	2015/01/23
2015/05950	POLYMERASE CHAIN REACTION DETECTION SYSTEM	2015/08/18
2015/06298	FERTILIZER COMPOSITION AND METHOD FOR SUSPENDING FERTILIZER IN AN AQUEOUS SOLUTION	2015/08/27
2015/07310	COMPOSITIONS COMPRISING ANTI-CD38 ANTIBODIES AND CARFILZOMIB	2015/10/01
2015/09046	VARIABLE DATA RATE CONTROL PROTOCOL	2015/12/11
2015/09145	CATALYSTS FOR PETROCHEMICAL CATALYSIS	2015/12/15
2016/03755	ANTI-CD3 ANTIBODIES AND METHODS OF USE	2016/06/02
2016/04618	IMPROVED SAUSAGE CASINGS	2016/07/06
2016/04864	AQUEOUS HERBICIDAL CONCENTRATES	2016/07/14
2016/05141	LIQUID DISPENSING DEVICE HAVING A PRE-COMPRESSION OUTLET VALVE	2016/07/22
2016/08206	ELECTRONIC VAPOUR PROVISION SYSTEM	2016/11/28
2016/08209	STABLE CANNABINOID FORMULATIONS	2016/11/28
2016/08303	METHODS FOR HARVESTING MAMMALIAN CELL CULTURES	2016/12/01
2016/08847	BETA-LACTAMASE INHIBITORS	2016/12/21
2017/04215	TOOL OR TOOL PART, SYSTEM INCLUDING SUCH A TOOL OR TOOL PART, METHOD OF PRODUCING	2017/06/21

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	SUCH A TOOL OR TOOL PART AND METHOD OF MOLDING A PRODUCT FROM A PULP SLURRY	
2017/06382	MOLECULES HAVING PESTICIDAL UTILITY, AND INTERMEDIATES, COMPOSITION, AND PROCESSES, RELATED THERETO	2017/09/21
2017/06922	MODIFIED GAMMA DELTA CELLS AND USES THEREOF	2017/10/12
2017/07013	PROCESSING SYSTEM FOR RECOVERING HEAT, AND A METHOD FOR OPERATING SAME	2017/10/17
2018/00592	MICROALGAE PRODUCTION PROCESS AND EQUIPMENT	2018/01/29
2018/02650	TOOTH RETAINING AND LOCKING SYSTEM	2018/04/20
2018/03870	COATINGS	2018/06/11
2018/05334	PURIFICATION OF POLLUTED AIR USING MICRO-ORGANISM-CONTAINING PARTICULATE MEDIA	2018/08/10
2018/06293	NEW ANTI¿SIRPA ANTIBODIES AND THEIR THERAPEUTIC APPLICATIONS	2018/09/19
2018/06883	TIME FUZE PROGRAMMING SYNCHRONIZATION SYSTEM AND METHOD	2018/10/16
2018/06918	AN ASSISTIVE DEVICE FOR AN INHALER	2018/10/17
2018/07477	VACCINE AGAINST INFECTIOUS BRONCHITIS	2018/11/07
2019/00301	U-SHAPED AIR TREATMENT ARRANGEMENT IN AN AIR HANDLING UNIT	2019/01/16
2019/00717	SYNTHESIS OF (S)-2-AMINO-4-METHYL-1-((R)-2-METHYLOXIRANE-2-YL)-PENTAN-1-ONE AND PHARMACEUTICALLY ACCEPTABLE SALTS THEREOF	2019/02/04
2019/01971	650 NM SILICON AVALANCHE LIGHT EMITTING DIODE	2019/03/29
2019/04687	ROCK DRILLING DEVICE	2019/07/17
2019/05273	PROTEINS BINDING PSMA, NKG2D AND CD16	2019/08/08
2019/06911	HANDLING OF PDCP DUPLICATION AND DATA RECOVERY IN NEW RADIO ACCESS TECHNOLOGY	2019/10/21
2019/06984	PESTICIDAL COMPOUNDS	2019/10/23
2019/07014	PYRIMIDINIUM COMPOUNDS AND THEIR MIXTURES FOR COMBATING ANIMAL PESTS	2019/10/24
2019/07277	DETERGENT COMPOSITIONS AND USES THEREOF	2019/11/01

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2019/07298	SYSTEMS AND METHODS FOR ASSESSING DRUG EFFICACY	2019/11/04
2019/07362	AN INTEGRATED SYSTEM FOR GENERATING, STORING AND DISPENSING CLEAN ENERGY AND DESALINATING WATER	2019/11/06
2019/08098	LEACHING PROCESS	2019/12/05
2019/08262	PROTOCOL-BASED SYSTEM AND METHOD FOR ESTABLISHING A MULTI-PARTY CONTRACT	2019/12/11
2019/08398	N-SUBSTITUTED INDOLE DERIVATIVES	2019/12/17
2019/08400	DUPLICATING SMART CONTRACTS WITH TERMINATION CONDITION	2019/12/17
2019/08552	SYSTEM AND METHOD FOR COMPILING HIGH-LEVEL LANGUAGE CODE INTO A SCRIPT EXECUTABLE ON A BLOCKCHAIN PLATFORM	2019/12/20
2019/08553	OPTIMISATION OF NETWORK PARAMETERS FOR ENABLING NETWORK CODING	2019/12/20
2020/00395	ARYL-PHOSPHORUS-OXYGEN COMPOUND AS EGFR KINASE INHIBITOR	2020/01/21
2020/00438	BENZAZEPINE DERIVATIVES	2020/01/22
2020/01293	WATER COLLECTION ARRANGEMENT	2020/02/28
2020/01892	COMBINED PHARMACEUTICAL FORMULATION COMPRISING DAPAGLIFLOZIN L-PROLINE AND METFORMIN	2020/03/24
2020/02453	CELL GLOBAL IDENTIFIER REPORTING IN A WIRELESS COMMUNICATION SYSTEM	2020/05/05
2020/04068	A METHOD FOR CONTROLLING A DRIVING CONDITION FOR A TRACTOR OF AN AGRICULTURAL MACHINE AND AN AGRICULTURAL MACHINE	2020/07/03
2020/04143	SYSTEMS FOR DYNAMIC LIGHT DETECTION OBSCURATION AND METHODS FOR USING THEREOF	2020/07/07
2020/04735	ANTI-PD-1 ANTIBODIES AND METHODS OF TREATMENT	2020/07/30
2020/04827	ANTI-CD73 ANTIBODIES AND USES THEREOF	2020/08/04
2020/06608	ANTIBODIES SPECIFIC FOR CD3 AND USES THEREOF	2020/10/23
2020/07161	SYSTEMS, DEVICES, AND METHODS FOR ANALYSIS OF GEOLOGICAL SAMPLES	2020/11/17

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2020/07407	METHOD OF TREATMENT WITH HISTAMINE-3 RECEPTOR INVERSE AGONIST	2020/11/27
2020/07444	COMPOUNDS AND METHODS FOR REDUCING LRRK2 EXPRESSION	2020/11/30
2020/07576	CAPACITIVE POWER TRANSMISSION CABLE	2020/12/04
2020/07606	MAGNETIC ASSEMBLIES, APPARATUSES AND PROCESSES FOR PRODUCING OPTICAL EFFECT LAYERS COMPRISING ORIENTED NON-SPHERICAL MAGNETIC OR MAGNETIZABLE PIGMENT PARTICLES	2020/12/07
2020/07610	CRISPR EFFECTOR SYSTEM BASED AMPLIFICATION METHODS, SYSTEMS, AND DIAGNOSTICS	2020/12/07
2020/07633	MODIFIED GUIDE RNAS	2020/12/08
2020/07868	ANTI-N3pGlu AMYLOID BETA PEPTIDE ANTIBODIES AND USES THEREOF	2020/12/17
2020/07891	AQUEOUS HERBICIDAL INTERMIXTURES	2020/12/17
2020/07896	WEAR PART, BUCKET, SYSTEM AND METHOD	2020/12/17
2021/00059	METHODS OF TREATMENT WITH CYP3A4 SUBSTRATE DRUGS	2021/01/05
2021/00103	TREAD OF TBR PNEUMATIC TYRES OF DRIVING WHEELS	2021/01/06
2021/00125	NOVEL FUSION PROTEIN SPECIFIC FOR CD137 AND PD-L1	2021/01/07
2021/00158	IMIDAZO[1,2-B]PYRIDAZINE DERIVATIVES AS TRK INHIBITORS	2021/01/11
2021/00215	URINAL APPARATUS WITH CONSUMABLE CAP	2021/01/13
2021/00259	PYRROLO[1,2-B]PYRIDAZINE DERIVATIVES	2021/01/05
2021/00297	WIRELESS COMMUNICATIONS	2018/01/30
2021/00350	COMPOSITION OF ALGINIC OLIGOSACCHARIC DIACIDS	2021/01/18
2021/00451	ATTACHABLE TRACK SHOE COVER	2021/01/21
2021/00461	LOCKING MECHANISM	2021/01/22
2021/00544	COMPOUNDS USEFUL AS KINASE INHIBITORS	2021/01/26
2021/00600	COMMUNICATIONS SYSTEMS AND METHODS WITH STOCHASTICALLY DISTRIBUTED ORBITING SATELLITES	2021/01/27
2021/00624	PLANT-GROWING TRAY	2021/01/28
2021/00752	TREATMENT AND PREVENTION OF INJURY DUE TO RADIATION EXPOSURE	2021/02/03

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2021/00925	METHODS FOR ASSESSING THE RISK OF DEVELOPING PROGRESSIVE MULTIFOCAL LEUKOENCEPHALOPATHY CAUSED BY JOHN CUNNINGHAM VIRUS BY GENETIC TESTING	2021/02/10
2021/01004	FENCE POST	2021/02/15
2021/01136	A DIFFUSION DEVICE, IRRIGATION SYSTEM AND METHOD	2021/02/19
2021/01141	LOCKING MECHANISM FOR FOLDABLE CRATES WITH HANDLE AND LATERALLY FACING BIASING MEMBERS	2021/02/19
2021/01319	A TRAP AND CONTAINER ARRANGEMENT	2021/02/26
2021/01516	SNATCHER RATCHET RESCUE	2021/03/05
2021/01691	PET FOOD COMPOSITIONS FOR WEIGHT MANAGEMENT IN PETS WITH ADVERSE FOOD REACTION	2021/03/12
2021/01756	MEDICAMENT FOR THE TREATMENT OF CHRONIC COUGH	2021/03/16
2021/01962	AEROSOL-GENERATING ARTICLE HAVING A VENTILATED CAVITY	2021/03/24
2021/02185	RADIATOR GUARD AND METHOD OF MAKING	2021/03/31
2021/02490	AMMONIA DEPOSITION PRECIPITATION PROCESS FOR PRODUCING A COPPER-NICKEL/GAMMA-ALUMINA CATALYST, SAID CATALYST AND ITS USE IN THE CONVERSION OF EXHAUST GASES	2021/04/15
2021/02573	FUEL COMPOSITIONS	2021/04/19
2021/02908	LINER DISPENSING HOUSING	2021/04/30
2021/03001	ADJUSTABLE MIRROR ASSEMBLY FOR A WORK MACHINE	2021/05/04
2021/03018	AN ORGANIC MATERIAL TRANSPORT SYSTEM AND KIT	2021/05/05
2021/03146	HAIR CONDITIONING COMPOSITION FOR IMPROVED DEPOSITION	2021/05/10
2021/03415	ELECTRONIC SMOKING ARTICLE WITH ALTERNATIVE AIR FLOW PATHS	2021/05/20
2021/03510	LINING AND COOLING ARRANGEMENT FOR A METALLURGICAL FURNACE	2021/05/24
2021/04406	PROTECTIVE TRAY WITH AN INTEGRATED DUST COVER FOR A SOFA	2021/06/25
2021/04451	PIZZA PRODUCT, PACKAGING FOR A PIZZA PRODUCT, AND METHOD	2021/06/28

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	OF COOKING AND DISTRIBUTION FOR A PIZZA PRODUCT	
2021/04498	POLYMORPH FORM OF A MONOPHOSPHATE HYDRATE SALT OF A KNOWN TETRAHYDROISOQUINOLINE DERIVATIVE	2021/06/29
2021/04937	QUICK RELEASE ARRANGEMENT FOR TEMPORARY FACE PROPS	2021/07/14
2021/05061	LIQUID TOBACCO EXTRACT, METHOD FOR MAKING AND AEROSOL-GENERATING ARTICLES COMPRISING SUCH	2021/07/19
2021/05429	PRINTED COVERSLIP AND SLIDE FOR IDENTIFYING REFERENCE FOCAL PLANE FOR LIGHT MICROSCOPY	2021/07/30
2021/05439	SYSTEMS AND METHODS FOR PRODUCING DURABLE, DIMENSIONALLY STABLE, EXTRUDED SHEET GOODS HAVING A DESIRED SPECIFIC GRAVITY	2021/07/30
2021/05563	TRACK JOINT ASSEMBLY IN MACHINE TRACK HAVING PIN STOP FOR CARTRIDGE PIN RETENTION	2021/08/06
2021/05578	NOVEL METHODS AND RELATED TOOLS FOR CBD CONVERSION TO THC	2021/08/06
2021/05579	CONTENT DELIVERY NETWORK SYSTEM AND METHOD	2021/08/06
2021/05583	METHODS OF DIAGNOSING AND TREATING CERVICAL CANCER	2021/08/06
2021/05584	A CAP FOR CLOSING A CONTAINER, A COMBINATION OF A CAP AND A NECK	2021/08/06
2021/05586	PHARMACEUTICAL DELIVERY COMPOSITIONS AND USES THEREOF	2021/08/06
2021/05645	THREADED COUPLING FOR PERCUSSION DRILL BIT	2021/08/10
2021/05677	LOBED TRACK PIN	2021/08/11
2021/05762	FORMWORK FRAME, FORMWORK ELEMENT, CEILING FORMWORK AND METHOD	2021/08/04
2021/05865	MODULAR PLATFORM SYSTEM COMPONENTS AND TOOLS	2021/08/17
2021/05873	STORAGE CONTAINER AND DISPENSER	2021/08/17
2021/05921	A COMPUTER-IMPLEMENTED GENOME TRACKING METHOD AND SYSTEM	2021/08/18
2021/05973	FOLDABLE ELECTRONIC DEVICE	2021/08/19

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	INCLUDING INTEGRATED GROUND STRUCTURE	
2021/06007	IN-LINE PRODUCTION OF LINERLESS LABELS	2021/08/20
2021/06066	METHOD FOR ELECTROLYTICALLY DEPOSITING A CHROMIUM OXIDE LAYER	2021/08/23
2021/06068	METHOD FOR MANUFACTURING CHROMIUM OXIDE COATED TINPLATE	2021/08/23
2021/06069	APPARATUS, SYSTEM AND METHOD OF DETERMINING ONE OR MORE PARAMETERS OF A REFRACTIVE ERROR OF A TESTED EYE	2021/08/23
2021/06136	AN EXHAUST SYSTEM	2021/08/25
2021/06157	HOOKAH DEVICE	2021/08/25
2021/06175	A COMPOSITION	2021/08/24
2021/06196	COMPOSITION CONTAINING REFRIGERANT, AND REFRIGERATION METHOD USING SAID COMPOSITION, OPERATING METHOD FOR REFRIGERATION DEVICE, AND REFRIGERATION DEVICE	2021/08/26
2021/06197	METHOD AND SYSTEM FOR INFORMING, ORGANIZING, TRANSPORTING, BOARDING AND ACCOMMODATING PASSENGERS IN AIRCRAFT, EQUIPMENT AND RELATED COMPUTER PROGRAMS	2021/08/26
2021/06198	HINGE MODULE INCLUDING DETENT STRUCTURE AND FOLDABLE ELECTRONIC DEVICE INCLUDING THE HINGE MODULE	2021/08/26
2021/06199	HINGE MODULE AND FOLDABLE ELECTRONIC DEVICE INCLUDING THE SAME	2021/08/26
2021/06202	NANOSENSORS AND USE THEREOF	2021/08/26
2021/06235	MIXER HAVING A CLOSING COVER	2021/08/27
2021/06237	PREPARATION AND STORAGE OF LIPOSOMAL RNA FORMULATIONS SUITABLE FOR THERAPY	2021/08/27
2021/06238	ROTARY DISC FILTER HAVING BACKWASH GUIDES	2021/08/27
2021/06276	A METHOD AND SYSTEM FOR PURCHASING FUEL USING A FUEL VOUCHER	2021/08/30
2021/06304	HETEROCYCLIC COMPOUND AND USE THEREOF	2021/08/30
2021/06352	IMPROVED WEIGHTING	2021/08/31

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	PROCESSING OF COMBINED INTRA-INTER PREDICTION	
2021/06355	METHOD AND APPARATUS FOR MANUFACTURING A WORKPIECE INTO A PRODUCT	2021/08/31
2021/06356	LAUNDRY DETERGENT COMPOSITIONS	2021/08/31
2021/06370	ANTI-ALPHA SYNUCLEIN ANTIBODIES	2021/09/01
2021/06392	THERAPEUTIC RNA FOR PROSTATE CANCER	2021/09/01
2021/06431	A CAP FOR CLOSING A CONTAINER, A COMBINATION OF A CAP AND A NECK	2021/09/02
2021/06438	CHLORIDE-INDUCIBLE PROKARYOTIC EXPRESSION SYSTEM	2021/09/02
2021/06439	ELECTRO-HYDRAULIC ARRANGEMENT FOR AN EARTHMOVING MACHINE	2021/09/02
2021/06480	WAVE-ENERGIZED DIODE PUMP	2021/09/03
2021/06496	SYSTEM AND METHOD FOR PACKAGING MEDICAL STOPPERS CONSISTING OF A CAP AND A PLUG	2021/09/06
2021/06517	TRANSPARENT OR SEMITRANSPARENT INVERSE MICROLATICES OF POLYACRYLAMIDE AS OIL EMULSION DRIFT REDUCING AGENT	2021/09/06
2021/06556	ELECTRONIC APPARATUS INCLUDING FOLDABLE CONDUCTIVE PLATE	2021/09/07
2021/06603	MODULAR MANIFOLD HAVING AT LEAST TWO CONTROL MODULES FOR CONTROLLING OPERATION OF AT LEAST TWO HYDRAULIC ACTUATORS OF AN EARTHMOVING MACHINE	2021/09/08
2021/06623	VIRTUAL AGENT TEAM	2021/09/08
2021/06625	BETA ADRENERGIC AGONIST AND METHODS OF USING THE SAME	2021/09/08
2021/06626	A POULTRY LITTER-BASED FERTILIZER AND A METHOD FOR MAKING THE POULTRY LITTER-BASED FERTILIZER FROM POULTRY LITTER	2021/09/08
2021/06655	INERTIAL HYDRODYNAMIC PUMP AND WAVE ENGINE	2021/09/09
2021/06676	LOCKING DEVICE FOR COUPLING A WEAR ELEMENT TO A SUPPORT IN	2021/09/09

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	AN EARTH MOVING MACHINE	
2021/06712	GYRATORY CRUSHER, AND OVERLOAD DETECTION DEVICE AND METHOD THEREFOR	2021/09/10
2021/06713	NOVEL PATHOLOGICAL MARKER AND USES THEREOF	2021/09/10
2021/06714	HETEROCYCLIC COMPOUND AND HARMFUL ARTHROPOD PEST CONTROL COMPOSITION CONTAINING SAME	2021/09/10
2021/06770	FOLDABLE DEVICE	2021/09/13
2021/06893	METHODS FOR LABELING EUKARYOTIC CELLS FROM A MULTICELLULAR ORGANISM AS WELL AS FOR TREATING AND/OR DIAGNOSING A CANCER USING MODIFIED MONOSACCHARIDE COMPOUNDS	2021/09/17
2021/06973	A TAMPER INDICATOR FOR AN ELECTRIC FENCE	2021/09/20
2021/07206	DEVICE FOR INPUTTING AND CONTROLLING DRIVING STATE INFORMATION OF BILLIARD BALL	2021/09/27
2021/07270	A SUBSTANCE MANAGEMENT SYSTEM AND A METHOD OF OPERATING A SUBSTANCE MANAGEMENT SYSTEM	2021/09/28
2021/07278	ABIRATERONE PRODRUGS	2021/09/28
2021/07399	ORAL CARE PRODUCT	2021/09/30
2021/07521	PROCESS FOR THE PREPARATION OF LOW MOLECULAR WEIGHT AROMATIC COMPOUNDS SUCH AS BENZENE, TOLUENE, AND XYLENES (BTX) FROM PLASTICS	2021/10/06
2021/07870	AEROSOL-GENERATING DEVICE COMPRISING AN INDUCTIVE HEATING ARRANGEMENT COMPRISING FIRST AND SECOND LC CIRCUITS HAVING DIFFERENT RESONANCE FREQUENCIES	2021/10/15
2021/07993	USE OF ANTI-PD-1 ANTIBODY IN PREPARATION OF MEDICAMENT FOR TREATING SOLID TUMORS	2021/10/19
2021/08141	THIAZOLECARBOXAMIDES AND PYRIDINECARBOXAMIDE COMPOUNDS USEFUL AS PIM KINASE INHIBITORS	2021/10/22
2021/08165	APPLICATION OF KDM5A GENE AND ATRX GENE	2021/10/22
2021/08259	SYSTEM FOR GENERATING A LINEAR MOVEMENT	2021/10/26
2021/08267	GRADIENT CEMENTED CARBIDE	2021/10/26

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	BODY AND METHOD OF MANUFACTURING THEREOF	
2021/08312	PAYMENT PROCESSING	2021/10/27
2021/08580	A BUILDING KIT	2021/11/03
2021/08645	ACTIVE RESPONSE COLD TREATMENT FOR REFRIGERATED CARGO	2021/11/04
2021/08758	PLANT-GROWING TRAY AND METHOD	2021/11/08
2021/09047	BACKWARD-COMPATIBLE INTEGRATION OF HARMONIC TRANSPOSER FOR HIGH FREQUENCY RECONSTRUCTION OF AUDIO SIGNALS	2021/11/15
2021/09067	DISUBSTITUTED PYRAZOLE COMPOUNDS AS KETOHEXOKINASE INHIBITORS	2021/11/15
2021/09108	METALLIC CAN LID	2021/11/16
2021/09109	METALLIC CAN LID	2021/11/16
2021/09293	UNDERGARMENT	2021/11/19
2021/09418	APPARATUS, METHOD OR COMPUTER PROGRAM FOR GENERATING AN OUTPUT DOWNMIX REPRESENTATION	2021/11/23
2021/09421	COMPOSITIONS COMPRISING A BACTERIAL STRAIN LACTOBACILLUS PARACASEI AND HYALURONIC ACID AND THE USE THEREOF FOR THE TREATMENT OF THE SKIN	2021/11/23
2021/09434	DETERMINING ACTIVITY SWATH FROM MACHINE-COLLECTED WORKED DATA	2021/11/23
2021/09785	IMMUNOSENSOR	2021/11/30
2021/09823	CSI OMISSION RULES FOR ENHANCED TYPE II CSI REPORTING	2021/12/01
2021/09844	FLEX SENSORS FOR MEASURING REAL-TIME VALVE DIAMETER DURING PROCEDURE	2021/12/01
2021/09895	TUBULAR MEMBRANE HEAT EXCHANGER	2021/12/02
2021/09981	DEWATERING AIDS	2021/12/03
2021/10040	ORAL POUCHED PRODUCT	2021/12/06
2021/10092	ELECTRONIC SHOWERHEAD DEVICE	2021/12/07
2021/10214	FRUCTOPHILIC LACTIC ACID PRODUCING BACTERIA	2021/12/09
2021/10215	ISOLATION OF FETAL CELLS USING FACS	2021/12/09
2021/10259	METHOD AND SYSTEM FOR PRODUCING LOW CARBON	2021/12/10

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	FERROCHROME FROM CHROMITE ORE AND LOW CARBON FERROCHROME PRODUCED THEREBY	
2021/10473	METHOD FOR PRODUCING INCONTINENCE ARTICLES	2021/12/15
2021/10613	METHOD FOR DEFINING A PERSONALIZED VACCINE AGAINST HIV/AIDS	2021/12/17
2021/10751	APPARATUS AND METHOD FOR FILTERING IN VIDEO CODING	2021/12/21
2022/00268	COMBINATION THERAPY OF GPR119 AGONISTS AND DPP-4 INHIBITORS	2022/01/05
2022/00892	VIDEO DECODING METHOD AND VIDEO DECODER	2022/01/19
2022/00896	LIFTING GEAR	2022/01/19
2022/00897	FLUIDIZED BED REACTOR SYSTEM ALLOWING PARTICLE SAMPLING DURING AN ONGOING REACTION	2022/01/19
2022/00934	A PLUMBING DEVICE	2022/01/20
2022/01231	RECEIVER FOR RECEIVING A COMBINATION SIGNAL TAKING INTO ACCOUNT INTERSYMBOL INTERFERENCE AND LOW COMPLEXITY, METHOD FOR RECEIVING A COMBINATION SIGNAL, AND COMPUTER PROGRAMME	2022/01/26
2022/01233	ONLINE SHARING SYSTEM FOR WARRANT TO RECEIVE AND SHARING METHOD OF RECEIVABLE RIGHT	2022/01/26
2022/01237	WALL PLASTERING BEAD	2022/01/26
2022/01500	OPIOID GROWTH FACTOR RECEPTOR (OGFR) ANTAGONISTS, IN PARTICULAR NALOXONE AND/OR NALTREXONE FOR TREATING CANCER	2022/02/02
2022/01545	CONTROLLING A DESTINATION OF NETWORK TRAFFIC	2022/02/03
2022/01718	SEPARATED LIFT-THRUST VTOL AIRCRAFT WITH ARTICULATED ROTORS	2022/02/09
2022/01793	PROCESS OF MAKING CFTR MODULATORS	2022/02/10
2022/02236	CROSS-FLOW WATER ELECTROLYSIS	2022/02/22
2022/02251	COMPOSITIONS AND METHODS FOR CONTROLLING PLANT GROWTH	2022/02/22
2022/02304	NEUROTOXIN COMPOSITIONS FOR	2022/02/23

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	USE IN TREATING NEUROLOGIC AND PSYCHIATRIC DISORDERS	
2022/02473	IN FIELD IMAGE ANALYSIS OF CHEMICAL OR BIOLOGICAL FORMULATION DEPOSITION ON A NATURAL SURFACE	2022/02/28
2022/02865	UNIVERSAL KEYLESS GUIDED SURGERY SYSTEM	2022/03/09
2022/02866	PACKAGING TECHNIQUE FOR INDUCTIVE CONDUCTIVITY SENSORS	2022/03/09
2022/02913	5-OXA-2-AZASPIRO[3.4]OCTANE DERIVATIVES AS M4 AGONISTS	2022/03/10
2022/03249	AEROSOL-GENERATING DEVICE WITH MEANS FOR DETECTING AT LEAST ONE OF THE INSERTION OR THE EXTRACTION OF AN AEROSOL-GENERATING ARTICLE INTO OR FROM THE DEVICE	2022/03/18
2022/03330	METHOD FOR MARKING AND AUTHENTICATING DIAMONDS AND PRECIOUS STONES	2022/03/22
2022/03676	MOBILE WIRELESS BROADBAND NETWORK INTERFACE CARD (MWBNIC) AND K-NET	2022/03/30
2022/03716	DEHUMIDIFICATION SYSTEM	2022/03/31
2022/03721	SUSPENSION ROASTING SYSTEM AND METHOD FOR INDUSTRIAL PROCESSING OF IRON AND MANGANESE ORES	2022/03/31
2022/03878	INTRAVASCULAR CATHETER DEVICE	2022/04/05
2022/03919	PRODUCTIVITY ENHANCEMENT APPARATUS FOR POWER OPERATED SKINNING EQUIPMENT	2022/04/06
2022/04137	PROCESS FOR PREPARING (15?LPHA,16?LPHA,17?ETA)-ESTRA-1,3,5(10)-TRIENE-3,15,16,17-TETROL (ESTETROL) AND INTERMEDIATES OF SAID PROCESS	2022/04/12
2022/04174	AN ELECTRONIC SYSTEM FOR ADMINSTRATION OF DRIVER LICENSE TEST	2022/04/13
2022/04376	FILLING ADAPTER FOR FILLING VEHICLES AT ASSEMBLY LINES IN THE AUTOMOTIVE INDUSTRY	2022/04/19
2022/05178	ELECTRICITY ACQUISITION SYSTEM AND METHOD OF USING SAME	2022/05/11
2022/05489	METHOD FOR THERMAL ENERGY TRANSMISSION USING WATER AND	2022/05/18

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	CARBON DIOXIDE	
2022/06061	DEVICES AND METHODS FOR LINE-SCANNING MICROSCOPY	2022/05/31
2022/06112	SPHINGOSINE-1-PHOSPHATE RECEPTOR AGONIST, PREPARATION METHOD THEREFOR, AND PHARMACEUTICAL COMPOSITION COMPRISING SAME AS ACTIVE AGENT	2022/06/01
2022/06129	BATTERY TURN ON CIRCUIT AND LITHIUM BATTERY	2022/06/01
2022/06130	BATTERY POWER-ON CIRCUIT	2022/06/01
2022/06188	A TRAFFIC INFRINGEMENT NOTICE MANAGEMENT SYSTEM AND A METHOD OF MANAGING TRAFFIC INFRINGEMENT NOTICES	2022/06/03
2022/06366	CONFIGURATION OF DOWNLINK CONTROL INFORMATION FORMATS	2022/06/08
2022/06370	NOVEL HYALURONIC ACID-HYDROLYZING ENZYME VARIANT HAVING IMPROVED STABILITY AND PHARMACEUTICAL COMPOSITION COMPRISING SAME	2022/06/08
2022/06375	DEVICE, SYSTEM AND METHOD FOR REAL TIME MONITORING AND ANALYSIS OF HEALTH PARAMETERS RELATING TO NON-COMMUNICABLE DISEASES	2022/06/08
2022/06473	MINERAL WINNING PICK, PICK HOLDER, AND COMBINATION	2022/06/10
2022/06499	CARBONATED ALCOHOLIC BEVERAGE	2022/06/10
2022/06537	PACKAGING UNIT FROM A MOULDED PULP MATERIAL WITH DISPLAY OPENINGS AND METHOD FOR MANUFACTURING SUCH PACKAGING UNIT	2022/06/13
2022/06539	METHOD FOR PRODUCING A MOULDED PULP MATERIAL FOR PACKAGING UNIT AND SUCH PACKAGING UNIT	2022/06/13
2022/06594	FLAME RESISTANT FABRICS WITH INCREASED STRENGTH	2022/06/14
2022/06646	DEVICE AND METHOD FOR DETECTING REACTIVE LUMINESCENT NANO- OR MICRO-PARTICLES	2022/06/15
2022/06661	CODED POLYMER SUBSTRATES FOR BANKNOTE AUTHENTICATION	2022/06/15
2022/06740	INTERLEUKIN 2 CHIMERIC CONSTRUCTS	2022/06/17

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2022/06750	VACCINES AGAINST AFRICAN SWINE FEVER VIRUS, AND METHODS OF USING SAME	2022/06/17
2022/06848	STABILIZATION DEVICE	2022/06/21
2022/06871	POWDERED MILK FORMULA FOR AN INFANT	2022/06/21
2022/07001	MITE COMPOSITION AND METHOD FOR REARING MITES	2022/06/23
2022/07002	MODIFIED CLAMP	2022/06/23
2022/07113	POLYETHYLENE COMPOSITION FOR FILAMENTS OR FIBERS	2022/06/27
2022/07230	IMPLANT AND RELATED METHODS	2022/06/29
2022/07267	DUAL SIDED RAZOR	2022/06/30
2022/07437	APPARATUS AND PROCESS FOR THE GAS-PHASE POLYMERIZATION	2022/07/05
2022/07584	DOT PRINTING METHOD AND DEVICE FOR ADDITIVE MANUFACTURING OF DOSAGE FORMS WHICH CONTAIN ACTIVE SUBSTANCES	2022/07/08
2022/07794	EMERGENCY-STOP SWITCH AND MACHINE WITH AN EMERGENCY-STOP SWITCH	2022/07/13
2022/08434	WATER DESALINIZATION SYSTEMS	2022/07/28
2022/08758	SYSTEM FOR THE ELECTRO-PHYSIOLOGICAL ANALYSIS OF ONE OR MORE PLANTS	2022/08/04
2022/08990	PROTECTIVE DEVICE AND SLOPE STABILIZATION	2022/08/11
2022/08994	MULTI-DIMENSIONAL LIGAND-ASSISTED CHROMATOGRAPHY METHOD FOR THE PURIFICATION OF COMPLEX REE AND OTHER METAL IONS FORM MIXTURES/MINERALS	2022/08/11
2022/09057	DEVICE AND METHOD FOR SEPARATING A SUSPENSION	2022/08/12
2022/09312	GLP-1R AGONISTS AND USES THEREOF	2022/08/19
2022/09337	TRAFFIC MANAGEMENT DEVICE, TRAFFIC MANAGEMENT SYSTEM, TRAFFIC INFORMATION SYSTEM, STARTING MODULE THAT CAN BE RETROFITTED AND METHOD FOR MANAGING TRAFFIC	2022/08/19
2022/09347	DISINFECTION OF SOIL BY APPLICATION OF ELECTRIC VOLTAGE	2022/08/19
2022/09472	MODULATORS OF 5'-NUCLEOTIDASE, ECTO AND THE USE THEREOF	2022/08/24
2022/09532	PROCESSES FOR UPGRADING	2022/08/25

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	ALKANES AND ALKYL AROMATIC HYDROCARBONS	
2022/09658	A TENT WITH CONFIGURABLE FLUE OPENINGS	2022/08/30
2022/09659	TENT FEATURING RETRACTABLE ROOF AND SIDE CANVAS PANELS OR SHEETS	2022/08/30
2022/09901	DRUG COMBINATIONS FOR INHIBITING INFLAMMATION AND SRC KINASE ACTIVATION FOLLOWING INVASIVE SURGICAL PROCEDURES	2022/09/05
2022/09964	ACRYLIC MULTILAYER FOIL WITH IMPROVED MECHANICAL PROPERTIES AND A HIGH WEATHERING RESISTANCE	2022/09/07
2022/09966	ACRYLIC MULTILAYER FOIL WITH IMPROVED MECHANICAL PROPERTIES AND A HIGH WEATHERING RESISTANCE	2022/09/07
2022/09980	ANALYTE SENSOR AND A METHOD FOR PRODUCING AN ANALYTE SENSOR	2022/09/07
2022/10020	CD137 BINDING MOLECULES AND USES THEREOF	2022/09/08
2022/10100	APPARATUS, METHOD AND COMPUTER PROGRAM FOR CONNECTION MANAGEMENT	2018/11/14
2022/10108	A BLAST-LIMITING INSTALLATION AND METHOD	2022/09/12
2022/10165	A METHOD AND SYSTEM FOR LUBRICATING ONE OR MORE ROTARY BEARINGS	2022/09/13
2022/10168	PERSONAL RESPIRATORY ISOLATION SYSTEM	2022/09/13
2022/10173	METHOD FOR CLOSING A KNITTED TUBULAR ARTICLE AT AN AXIAL END THEREOF	2022/09/13
2022/10198	FRICTION STIR WELDING TOOL AND METHOD FOR PRODUCING SAME	2022/09/14
2022/10199	GLP-1 RECEPTOR AGONIST, PHARMACEUTICAL COMPOSITION COMPRISING SAME, AND METHOD FOR PREPARING SAME	2022/09/14
2022/10245	TECHNIQUES FOR MANAGING SCALE FORMATION IN WATER FILTRATION SYSTEMS AND A REVERSE OSMOSIS (RO) AND NANOFILTRATION (NF) SYSTEM IMPLEMENTING SAME	2022/09/15
2022/10256	CYLINDER LOCK AND KEY	2022/09/15

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	THEREOF	
2022/10258	METHOD FOR ON-DEMAND CLOSED-LOOP CONTROL OF AN ELECTROCHEMICAL PLANT	2022/09/15
2022/10262	DEVICE AND METHOD FOR PROVIDING AUGMENTED REALITY INTERACTION	2022/09/15
2022/10296	SECURITY VERIFICATION METHOD, CONSUMABLE CHIP, CONSUMABLE, AND IMAGE FORMING APPARATUS	2022/09/16
2022/10311	CORONAVIRUS THERAPEUTICS AND TREATMENT METHODS	2022/09/16
2022/10312	VEHICLE HAIL PROTECTION SYSTEM AND ASSOCIATED HAIL PROTECTION TARPAULIN	2022/09/16
2022/10314	METHOD, SYSTEM AND COMPUTER PROGRAMS FOR TRACEABILITY OF LIVING SPECIMENS	2022/09/16
2022/10370	METHOD FOR IMPROVING THE STABILITY OF A PHARMACEUTICAL COMPOSITION COMPRISING A HIGH PENETRATION DRUG, AND THE PHARMACEUTICAL COMPOSITION OBTAINED THEREFROM	2022/09/19
2022/10372	TRANSPORT OF EXPLOSIVES	2022/09/19
2022/10468	A CASTOR WHEEL ASSEMBLY	2022/09/21
2022/10520	HYDROGEL COMPOSITIONS AND PREPARATION THEREOF	2022/09/22
2022/10533	SYSTEMS AND METHODS FOR CONTROLLING AN INTERACTIVE HYBRID ENVIRONMENT REPRESENTING A MOTORISED SPORTING EVENT AT A TRACK	2022/09/22
2022/10536	A METHOD AND SYSTEM FOR HEATING DIRECT REDUCED IRON (DRI) BETWEEN A DRI SOURCE AND PROCESSING EQUIPMENT FOR THE DRI	2022/09/22
2022/10537	DIAMINOPYRAZOLO[1,5-A]PYRIMIDINE-6-CARBONITRILE COMPOUNDS AS ADENOSINE 2A RECEPTOR AND ADENOSINE 2B RECEPTOR ANTAGONIST	2022/09/22
2022/10583	INTEGRATION OF DR PLANT AND ELECTRIC DRI MELTING FURNACE FOR PRODUCING HIGH PERFORMANCE IRON	2022/09/23
2022/10585	PARAPOXVIRUS FOR CONDITIONING FOR AND TREATMENT OF CORONAVIRUS	2022/09/23

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	INFECTIONS	
2022/10603	VARIABLE GUIDE VANE ASSEMBLY	2022/09/26
2022/10641	CORONAVIRUS VACCINE	2022/09/26
2022/10643	ENZYME AND PATHWAY MODULATION WITH SULFHYDRYL COMPOUNDS AND THEIR DERIVATIVES	2022/09/26
2022/10683	COOLING TOWER CONTROL SYSTEM	2022/09/27
2022/10714	VEHICLE SECURITY DEVICE	2022/09/28
2022/10715	INTERCHANGEABLE CARRIER SYSTEM	2022/09/28
2022/10730	PEI OR PEI-PEEK PARTICLE FOAMS FOR APPLICATIONS IN LIGHTWEIGHT CONSTRUCTION	2022/09/28
2022/10764	COMPOSITIONS	2022/09/29
2022/10766	AN AEROPONICS SYSTEM AND APPARATUS THEREOF	2022/09/29
2022/10783	GEL AND GEL BEADS CONTAINING POLYVINYL ALCOHOL, POLYURETHANE AND IMMOBILIZED SUBSTANCES	2022/09/29
2022/10823	METHODS	2022/09/30
2022/10928	A STOWAGE DEVICE	2022/10/05
2022/10982	METHOD FOR DETERMINING REPRESENTATIVE COLOURS FROM AT LEAST ONE DIGITAL COLOUR IMAGE	2022/10/06
2022/10984	METHODS OF TREATING CORONAVIRUS DISEASE 2019	2022/10/06
2022/10996	MODULAR WORKSTATION	2022/10/07
2022/10998	METHOD OF MANAGING INFORMATION FOR THE SUPPLY CHAIN OF A PERISHABLE COMMODITY	2022/10/07
2022/11008	GAS SUPPLY MARINE VESSEL AND FLOATING REFUELING FACILITY	2022/10/07
2022/11073	AN ARRANGEMENT FOR AND A METHOD OF SUPPORTING A SIDE WALL OF A VERTICAL FLUE GAS PASS IN A THERMAL POWER STEAM GENERATOR	2022/10/10
2022/11129	BRAKE DEVICE, LEVER HOIST, AND RATCHET MECHANISM	2022/10/11
2022/11136	PROTEOLYTICALLY STABLE U1-AGATOXIN-TA1B VARIANT POLYPEPTIDES FOR PEST CONTROL	2022/10/11
2022/11169	METHODS OF PRODUCING A TITANIUM ALLOY PRODUCT	2022/10/12
2022/11229	PACKAGING CONTAINER FOR FOODSTUFFS	2022/10/13

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2022/11302	PHARMACEUTICAL COMBINATION COMPRISING A BRAIN AMINOPEPTIDASE A INHIBITOR, A DIURETIC AND A BLOCKER OF THE SYSTEMIC RENIN-ANGIOTENSIN SYSTEM	2022/10/14
2022/11316	RUBBER COMPOSITION, RUBBER PRODUCT AND TYRE	2022/10/14
2022/11337	IMAGE FORMING CONTROL METHOD, CONSUMABLE CHIP, IMAGE FORMING APPARATUS, AND CONSUMABLE	2022/10/17
2022/11394	A STORAGE UNIT HAVING ADJUSTABLE VOLUME	2022/10/18
2022/11414	NAPHTHYRIDINE AND PYRIDO[3,4-C]PYRIDAZINE DERIVATIVES AS GABAA ?5 RECEPTOR MODULATORS	2022/10/18
2022/11438	COMPOSITE MULTI-LAYER PIPE AND PREPARATION METHOD THEREOF	2022/10/19
2022/11454	METHOD FOR PREPARATION OF GLYPHOSATE COMPOSITION	2022/10/19
2022/11456	HEAT EXCHANGER ARRANGEMENT	2022/10/19
2022/11469	HIGHLY ENERGY-EFFICIENT FURNACE	2022/10/19
2022/11499	LOCKOUT AND TAGOUT SEQUENCE CONTROL SYSTEM	2022/10/20
2022/11503	COLORIMETRIC MEASUREMENT OF FLUDIOXONIL	2022/10/20
2022/11528	LIDS FOR DRINKING CUPS	2022/10/21
2022/11777	NOVEL COMPOUND [2-(DIMETHYLAMINO)-2-PHENYLBUTYL]-3,4,5-TRIMETHOXYBENZOATE 4-METHYL-2H-CHROMEN-2-ON-7-YL SULPHATE AND USE THEREOF	2022/10/28
2022/12011	RECHARGEABLE ELECTRICAL STORAGE DEVICES	2022/11/02
2022/12175	HEAT TREATED COLD ROLLED STEEL SHEET AND A METHOD OF MANUFACTURING THEREOF	2022/11/08
2022/12176	HEAT TREATED COLD ROLLED STEEL SHEET AND A METHOD OF MANUFACTURING THEREOF	2022/11/08
2022/12236	EFFICIENT CULTIVATION WAY OF MESEMBRYANTHEMUM CRYSTALLINUM LINN	2022/11/09
2022/12240	SENSORY PERCEPTION SURGICAL SYSTEM FOR ROBOT-ASSISTED LAPAROSCOPIC SURGERY	2022/11/09
2022/12300	METHOD AND DEVICE FOR	2022/11/10

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	DETERMINING CHARACTERISTICS OF A PHOTOVOLTAIC POWER SOURCE	
2022/12516	ENERGY SOURCE	2022/11/16
2022/12517	FIREPROOF POLYMER ADDITIVE, METHOD OF ITS PRODUCTION AND APPLICATION	2022/11/16
2022/12549	POWDER AND METHOD FOR MANUFACTURING POWDER	2022/11/17
2022/12582	TILTING ARRANGEMENT	2022/11/21
2022/12583	LOCKING ARRANGEMENT	2022/11/21
2022/12584	FRICTION ARRANGEMENT	2022/11/21
2022/12645	GUIDE DEVICE AND MECHANICAL SYSTEM COMPRISING SUCH A DEVICE	2022/11/21
2022/12646	GUIDE DEVICE AND MECHANICAL SYSTEM COMPRISING SUCH A DEVICE	2022/11/21
2022/12662	USE OF COMPOUNDS FOR TREATING VIRAL INFECTIONS	2022/11/21
2022/12683	BOARDGAME APPARATUS	2022/11/22
2022/12695	WATER PURIFIER SYSTEM	2022/11/22
2022/12724	IMPROVEMENT OF GLASS STRENGTH AND FRACTURE TOUGHNESS BY A NON-BRITTLE ABRASION RESISTANT COATING	2022/11/22
2022/12725	VOLTAGE MEASUREMENT APPARATUS, VOLTAGE MEASUREMENT METHOD AND STORAGE MEDIUM	2022/11/22
2022/12771	DEVICE AND METHOD FOR THE PYROLYSIS OF ORGANIC STARTING MATERIALS	2022/11/23
2022/12895	A MODIFIED BIOGAS SYSTEM	2022/11/28
2022/12903	AN INTERACTIVE GAMING SYSTEM AND METHOD OF ADVERTISING THEREWITH	2022/11/28
2022/12916	ELECTROWINNING AND ELECTROREFINING ENVIRONMENT COMMUNICATOR	2022/11/28
2022/13139	CASTABLE AND CURABLE MAGNETIC CEMENT COMPOSITION AND METHOD FOR PREPARATION THEREOF	2022/12/05
2022/13203	METHOD FOR DETECTING MALONDIALDEHYDE IN FOOD	2022/12/06
2022/13224	METHOD FOR PRODUCING PELLETIZED FUEL FROM URANIUM-MOLYBDENUM POWDERS	2022/12/06
2022/13557	USE OF AN ORGANO-MINERAL COMPOSITION BY FOLIAR APPLICATION TO STIMULATE	2022/12/14

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	PLANT DEVELOPMENT IN THE PRESENCE OF AT LEAST ONE ABIOTIC STRESS OR BIOTIC STRESS	
2022/13670	DATA LOGGER FOR SMART INDUSTRIES	2022/12/19
2022/13753	TRADITIONAL CHINESE MEDICINE COMPOSITION FOR TREATING/PREVENTING MYCOTOXICOSIS AS WELL AS PREPARATION METHOD AND APPLICATION THEREOF	2022/12/20
2022/13943	COMPOSITION FOR PRESERVING AND/OR IMPROVING THE QUALITY OF MEAT PRODUCTS	2022/12/22
2023/00592	METHOD FOR ALLOCATING AND TRANSPORTING BREEDING SHEEP	2023/01/13
2023/01310	SYSTEM AND METHOD FOR DETERMINING OWNERSHIP, AND REGULATING DIGITAL CONTENT THEREOF	2023/02/01
2023/01702	THE METHOD AND DEVICE OF FILLING DEGREE EVALUATION FOR VERTICAL OIL STORAGE TANK UNDER WIND PRESSURE	2023/02/10
2023/01905	NON-WOVEN SHEET FROM NERIUM OLEANDER STEM FIBERS AND METHOD OF MANUFACTURING	2023/02/16
2023/01926	IMPROVED INDUSTRIAL PROCESS FOR EXTRACTION OF ALPHA YOHIMBINE FROM RAUWOLFIA SPECIES AND THE EXTRACT THEREOF	2023/02/16
2023/01970	A NEW TYPE OF ECOLOGICAL BRICK	2023/02/17
2023/01977	AN AGRICULTURAL FERTILIZER EQUIPMENT BASED ON THE INTERNET OF THINGS	2023/02/17
2023/02067	A COMPOSITION AND A METHOD FOR SYNTHESIZING HYBRID NANO COMPOSITE PARTICLE FLUID	2023/02/20
2023/02089	ACID-CATALYZED PHOTOCATALYZED OXIDATION REACTION OF BENZYLIC C-H BONDS OF AROMATIC COMPOUND	2023/02/20
2023/02090	METHODS AND COMPOSITIONS FOR THE PRODUCTION OF ACETYL-COA DERIVED PRODUCTS	2023/02/20
2023/02182	METHOD OF EXTRACTING OPERATION STATUSES OF PACIFIC SAURY FISHING SHIPS ON NORTHWEST PACIFIC OCEAN	2023/02/22

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	USING REMOTE SENSING NIGHT LIGHT DATA	
2023/02183	A METHOD FOR THE PREPARATION OF WATER-BASED POLYURETHANE WATER-RESISTANT COATINGS	2023/02/22
2023/02184	AN AUTOMATIC GAS FIRE EXTINGUISHING DEVICE AND ITS APPLICATION	2023/02/22
2023/02185	A HIGH-PRESSURE DRIVEN WATER MIST FIRE EXTINGUISHING EQUIPMENT	2023/02/22
2023/02186	A BIODEGRADABLE BI-DIRECTIONAL CAVA ABUTMENT BRIDGE PLUG	2023/02/22
2023/02188	METHOD OF E-COMMERCE SECURITY RISK MANAGEMENT	2023/02/22
2023/02189	MICROBIAL AGENT FOR DECOMPOSING FRUIT AND VEGETABLE WASTES, APPLICATION METHOD THEREOF AND PREPARED ORGANIC MATRIX	2023/02/22
2023/02190	A KIND OF INLET AND OUTLET WATER TREATMENT DEVICE FOR POND CULTURE	2023/02/22
2023/02191	BACTERIAL STRAIN OF CLADOSPORIUM MINUTUM FOR CONTROLLING CITRUS PESTS SUCH AS PANONYCHUS CITRI	2023/02/22
2023/02192	A TIBIAL OSTEOTOMY PLATE FOR KNEE REPLACEMENT	2023/02/22
2023/02193	PREDICTION MODEL FOR READMISSION TO ICU OR UNEXPECTED DEATH OF CRITICALLY ILL PATIENTS AFTER EMERGENCY GENERAL SURGERY AND ITS CONSTRUCTION METHOD	2023/02/22
2023/02194	A PREPARATION METHOD OF CELLULOSE NANOCRYSTALS MODIFIED WATERBORNE POLYURETHANE COMPOSITES AND IT APPLICATION	2023/02/22
2023/02195	ARTIFICIAL BLOOD VESSEL WITH END-TO-SIDE ANASTOMOSIS	2023/02/22
2023/02196	METHOD FOR IMPROVING LODGING RESISTANCE CAPABILITY OF SOYBEAN AND APPLICATION THEREOF	2023/02/22
2023/02197	STUDENT ACHIEVEMENT MANAGEMENT SYSTEM FOR RUSSIAN TEACHING	2023/02/22
2023/02199	RUSSIAN COURSE RECOMMENDATION SYSTEM	2023/02/22

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	BASED ON BIG DATA	
2023/02200	REMOTE TEACHING SYSTEM OF UNIVERSITY CHEMICAL EXPERIMENT	2023/02/22
2023/02202	INTERNET-BASED MATHEMATICS DISTANCE TEACHING SYSTEM	2023/02/22
2023/02203	VEHICLE OCCUPANTS SAFETY SYSTEM	2023/02/22
2023/02204	METHOD FOR RAPIDLY DETECTING PARAQUAT IN URINE BY COLLOIDAL GOLD IMMUNOCHROMATOGRAPHIC TEST STRIP	2023/02/22
2023/02205	ANESTHESIA AUXILIARY SUPPORT FOR ANESTHESIA	2023/02/22
2023/02206	PREPARATION AND APPLICATION OF THE FLEXIBLE BIOSENSOR WITH HIGH MECHANICAL STRENGTH	2023/02/22
2023/02207	AN APPLICATION OF ADCY6 IN THE INHIBITION OF COLORECTAL CANCER	2023/02/22
2023/02210	RUSSIAN ONLINE TEACHING SYSTEM	2023/02/22
2023/02211	NUTRITIONAL PASTE BENEFICIAL TO BLOOD REPLENISHING OF PETS AND PREPARATION METHOD THEREOF	2023/02/22
2023/02212	DIET WITH PREVENTIVE AND HEALTHCARE EFFECTS FOR PET DOGS AND PREPARATION METHOD THEREOF	2023/02/22
2023/02213	MULTIMEDIA TEACHING SYSTEM FOR RUSSIAN TEACHING	2023/02/22
2023/02214	INTELLIGENT EVALUATION SYSTEM OF STUDENTS' COMPREHENSIVE LEVEL FOR RUSSIAN TEACHING	2023/02/22
2023/02218	A SURGICAL DRAINAGE FIXING DEVICE FOR THYROID, BREAST SURGERY	2023/02/22
2023/02219	A CLASS MONITORING SYSTEM FOR INTELLIGENT EDUCATION	2023/02/22
2023/02220	A CONVENIENT BOOK PLACEMENT PLATFORM	2023/02/22
2023/02221	METHOD FOR QUICKLY DETECTING CONVERSION RATE OF MAGNESIUM OXIDE TO MAGNESIUM HYDROXIDE	2023/02/22
2023/02222	INTELLIGENT PAGER FOR DISABLED ELDERLY PEOPLE AGED AT HOME	2023/02/22

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2023/02223	METHOD FOR SIMULTANEOUS IDENTIFICATION OF PROTEIN AND STRUCTURE THEREOF	2023/02/22
2023/02224	MULTI-STAGE FINE-TUNING COAXIAL CAPILLARY MICROFLUIDIC CHIP AND EMULSION PREPARATION METHOD	2023/02/22
2023/02225	METHOD FOR QUICKLY REMOVING CAFFEINE FROM BEVERAGE	2023/02/22
2023/02226	A PH-SENSITIVE RESPONSIVE CONTROLLED-RELEASE PESTICIDE FORMULATION FOR YOUNG FRUIT WOUND LIQUID AND ITS PREPARATION METHOD	2023/02/22
2023/02227	CLINICAL EXERCISE DEVICE FOR CARDIOVASCULAR MEDICINE DEPARTMENT	2023/02/22
2023/02228	COLLECTION MECHANISM OF A CLEANING DEVICE FOR RIVER GARBAGE TREATMENT	2023/02/22
2023/02229	SOLID PRESSURE TRANSMISSION AND COMPUTER TOMOGRAPHY COOPERATIVE DISPLACEMENT SYSTEM	2023/02/22
2023/02232	EFFICIENT BRUSHING DEVICE	2023/02/22
2023/02237	PRESCRIPTION FOR TREATING PROSTATE CANCER	2023/02/22
2023/02238	A PRESCRIPTION FOR TREATING ESOPHAGEAL CANCER	2023/02/22
2023/02239	SYSTEM OF THERMOPLASTIC CONDUITS, JUNCTION BOXES AND FITTINGS FOR ELECTRICAL INSTALLATIONS THAT PROVIDES PROTECTION AGAINST SURFACE WEAR	2023/02/22
2023/02264	A MATERIAL AND METHOD FOR INDUCTION CLADDING RARE EARTH MODIFIED NICKEL BASE ALLOY COATINGS	2023/02/22
2023/02280	ROLLER TYPE SOLID-LIQUID CONTACT WIND SPEED SENSOR BASED ON FRICTION NANO-GENERATOR	2023/02/22
2023/02302	INTELLIGENT LEARNING SYSTEM FOR ENGLISH PHONETIC SYMBOLS	2023/02/23
2023/02303	INTELLIGENT CONTROL SYSTEM FOR INDUSTRIAL MATERIAL DISTRIBUTION	2023/02/23
2023/02304	UNIFORM APPLICATION DEVICE FOR MEASURING TOTAL STRAIN OF ROCK UNDER HIGH-TEMPERATURE AND HIGH-PRESSURE CONDITION	2023/02/23

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2023/02305	METHOD FOR REMOVING SURFACE DENT OF REFILL FRICTION STIR SPOT WELDING JOINT	2023/02/23
2023/02306	MEDICINAL PLANT EXTRACT, PREPARATION AND APPLICATION THEREOF	2023/02/23
2023/02307	TRANSGENIC HAIRY ROOT CULTURE SYSTEM OF INDUSTRIAL HEMP	2023/02/23
2023/02308	TEMPERATURE REGULATING DEVICE FOR FISH-PLANT SYMBIOSIS SYSTEM	2023/02/23
2023/02309	DEVICE AND METHOD FOR OFFSETTING PUNCHING FORCE IN RIVETING PROCESS OF PIN BLOCK	2023/02/23
2023/02310	SIMULATION METHOD OF TEMPERATURE FIELD IN NUTATION DRIVE OF DOUBLE CIRCULAR ARC SPIRAL BEVEL GEAR	2023/02/23
2023/02312	SPERM COUNTERCURRENT HUNTING DEVICE	2023/02/23
2023/02313	OOCYTE-CORONA-CUMULUS COMPLEX GRANULOSA CELL LOOSENING DEVICE	2023/02/23
2023/02315	AUTOMATIC PROCESSING DEVICE FOR BOLTS	2023/02/23
2023/02316	DOUBLE-LAYER COMPRESSED SENSING METHOD FOR RAPIDLY SOLVING BISTATIC ELECTROMAGNETIC SCATTERING PROBLEM	2023/02/23
2023/02317	WHEEL SHOOTING AND MEASURING DEVICE AND MEASURING METHOD APPLIED TO FOUR-WHEEL ALIGNER	2023/02/23
2023/02318	GRAPE DRYING ROOM AND DRYING METHOD	2023/02/23
2023/02319	AQUACULTURE SYSTEM BASED ON AQUAPONICS TECHNOLOGY	2023/02/23
2023/02320	CHINESE HERBAL MEDICINE ADDITIVE FOR SHRIMP AND APPLICATION THEREOF	2023/02/23
2023/02328	MULTI-CAMERA CALIBRATION METHOD BASED ON 3D AUTOMOBILE WHEEL ALIGNER	2023/02/23
2023/02329	MYROSINASE MICROCAPSULE, AND SOLID BEVERAGE AND EFFERVESCENT TABLET PREPARED THEREFROM	2023/02/23
2023/02330	ORGANIC THERMOELECTRIC MATERIAL DOPED WITH CARBON	2023/02/23

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	NANOTUBES AND PREPARATION METHOD THEREOF	
2023/02331	RESPIRATORY ATOMIZATION THERAPY DEVICE FOR PEDIATRICS	2023/02/23
2023/02335	ROUND FRUIT AND VEGETABLE HARVESTING ASSEMBLY LINE	2023/02/23
2023/02336	MAJOR QTL FOR CONTROLLING WHITENESS OF WHEAT FLOUR AND APPLICATION OF MOLECULAR MARKER	2023/02/23
2023/02337	A PRESCRIPTION FOR TREATING UTERINE-RELATED CANCERS	2023/02/23
2023/02338	BASALT FIBER REINFORCED PVC MINERAL COMPOSITE MATERIAL AND ITS PREPARATION METHOD	2023/02/23
2023/02339	A HYDROGEN PRODUCTION METHOD BY DRIPPING ON SODIUM AND A DEVICE THEREOF	2023/02/23
2023/02343	FOLDING RACK FOR GRAPE PLANTING AND USE METHOD THEREOF	2023/02/23
2023/02344	METHOD FOR PROMOTING LATERAL BUD GERMINATION AT BRANCH BASES OF YOUNG APPLE TREES	2023/02/23
2023/02345	CLAMPING DEVICE FOR WETTABILITY EXPERIMENT	2023/02/23
2023/02346	NEURON CALCIUM SIGNAL CONDUCTION DETECTION DEVICE	2023/02/23
2023/02347	SINGLE-HOLE LAPAROSCOPIC MULTIFUNCTIONAL CHANNEL	2023/02/23
2023/02348	HEDGE TRIMMER WITH ADJUSTABLE TRIMMING SHAPE	2023/02/23
2023/02349	DEVICE FOR TREATING DIABETIC FOOT AND WORKING METHOD THEREOF	2023/02/23
2023/02350	OIL POLLUTION TREATMENT DEVICE	2023/02/23
2023/02351	EFFICIENT TREATMENT DEVICE FOR BUILDING CONSTRUCTION SEWAGE	2023/02/23
2023/02352	KONJAC SANDWICH AND PREPARATION METHOD THEREOF	2023/02/23
2023/02355	GERMINATION PROCESS OF PEANUT BUD RICH IN RESVERATROL	2023/02/23
2023/02356	ASSEMBLED BUILDING WALL	2023/02/23
2023/02359	GRAVITY WHEEL MAGNETIC ENERGY INTERNAL CIRCULATION GENERATOR	2023/02/23
2023/02390	DRY-TYPE TRANSFORMER	2023/02/23

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	DISCHARGE GROUNDING PROTECTION DEVICE	
2023/02420	METHOD FOR EFFECTIVELY IMPROVING PHOTOSYNTHESIS OF PLANT LEAVES	2023/02/24
2023/02421	AUTOMATIC CONTROL DEVICE OF ELECTROTHERMAL VULCANIZER AND CONTROL METHOD THEREOF	2023/02/24
2023/02422	VECTOR FREQUENCY CONVERSION HIGH PERFORMANCE SPEED REGULATION METHOD FOR INDUCTION MOTOR BASED ON ACTIVE DISTURBANCE REJECTION CONTROLLER	2023/02/24
2023/02423	PREDICTION METHOD OF LUNG SOUND CHARACTERISTICS DURING ANESTHESIA BASED ON GAUSSIAN REGRESSION MODEL	2023/02/24
2023/02424	BELT CONVEYOR WITH AUTOMATIC ADJUSTABLE DRIVE SYSTEM AND DRIVE SYSTEM ADJUSTMENT METHOD	2023/02/24
2023/02425	MAGNESIA REFRACTORY, PREPARATION METHOD AND APPLICATION THEREOF	2023/02/24
2023/02426	LIFTABLE DIAGONAL ROPE-RETAINING DEVICE FOR MINE MAN-RIDING CABLE CAR	2023/02/24
2023/02428	PREPARATION METHOD OF SEA WATER BITTERN TOFU	2023/02/24
2023/02433	INCLINED DIRECTIONAL DRILLING HOLE CLUSTER AND GAS EXTRACTION METHOD FOR HIGH GAS COAL SEAM GROUP	2023/02/24
2023/02434	IMPROVED ENVIRONMENT-FRIENDLY CLEANING DEVICE FOR SEWAGE TREATMENT TANK	2023/02/24
2023/02435	GAS EXTRACTION METHOD ADJACENT TO LOWER PROTECTED LAYER	2023/02/24
2023/02436	METHOD OF THREE-DIMENSIONAL PUNCHING CROSS-CUT COAL UNCOVERING IN HIGH GAS OUTBURST COAL SEAM	2023/02/24
2023/02437	INTELLIGENT WAREHOUSING SYSTEM FOR LOGISTICS	2023/02/24
2023/02439	TROUSERS FOR ELDERLY WOMEN IN WHEELCHAIRS	2023/02/24
2023/02440	METHOD FOR OPTIMIZING TOTAL DELAY TIME OF DISTRIBUTED HYBRID FLOW SHOP	2023/02/24

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2023/02441	A SYSTEM FOR EARLY-STAGE DISEASE DETECTION AND HIGH-RISK PATIENT IDENTIFICATION AND WORKING METHOD THEREOF	2023/02/24
2023/02442	RAPID DETECTION METHOD FOR LKB1 GENE MUTATION	2023/02/24
2023/02443	BRIDGE CONSTRUCTION MONITORING DEVICE	2023/02/24
2023/02444	METHOD FOR CULTIVATING QUERCUS ROBUR SEEDLINGS	2023/02/24
2023/02447	A WIND INSTRUMENT MADE OF METAL	2023/02/24
2023/02450	APPLICATION OF SALT-TOLERANT PYRIDINE DEGRADATION STRAIN IN TREATING HIGH SALT PYRIDINE AND QUINOLINE WASTEWATER	2023/02/24
2023/02451	A MIXING AND APPLYING DEVICE FOR MEDICAMENT	2023/02/24
2023/02452	DEVICE AND METHOD FOR CONTROLLING ALL-SOLID-STATE Q-SWITCHED LASER TO OUTPUT CHAOTIC LASER	2023/02/24
2023/02453	VECTOR VARIABLE FREQUENCY SPEED REGULATION METHOD OF HIGH-PERFORMANCE ASYNCHRONOUS MOTOR BASED ON SLIDING MODE VARIABLE STRUCTURE CONTROL	2023/02/24
2023/02454	ATOMIZING INHALATION DEVICE FOR PEDIATRICS	2023/02/24
2023/02456	AN URBAN LANDSCAPING VEHICLE	2023/02/24
2023/02459	METHOD FOR FIXING MOBILE SAND DUNES IN ARID AREAS BY COMBINING AND PLASTIC SQUARES	2023/02/24
2023/02460	NUMERICAL SIMULATION ANALYSIS METHOD OF MAXIMUM HORIZONTAL PRINCIPAL STRESS FIELD IN LARGE-SCALE COMPLEX GEOLOGICAL AREA OF COAL MINE	2023/02/24
2023/02461	DEVICE AND METHOD FOR DETECTING DEFECTS OF INDUSTRIAL ROBOT TRANSMISSION SYNCHRONOUS BELT	2023/02/24
2023/02462	SELENIUM-ENRICHED DIETARY FIBER BISCUIT FOR PREVENTING DIABETES AND PREPARATION METHOD THEREOF	2023/02/24
2023/02466	A TRADITIONAL CHINESE MEDICINE FOR ALLEVIATING AND TREATING CEREBRAL ISCHEMIA	2023/02/24

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2023/02467	NOVEL HEATING DEVICE FOR LOW-TEMPERATURE VACUUM EXTRACTION SYSTEM AND HEATING METHOD THEREOF	2023/02/24
2023/02470	GAS SEPARATION MEMBRANE, PREPARATION METHOD AND APPLICATION THEREOF	2023/02/24
2023/02471	BI-OBJECTIVE OPTIMAL SCHEDULING METHOD BASED ON HYBRID FLOW SHOP	2023/02/24
2023/02472	PREPARATION METHOD OF OCEAN WATER RICE WINE	2023/02/24
2023/02473	EQUIPMENT FOR MEASURING BONDING STRENGTH BETWEEN EXTERNAL WALL INSULATION BOARD AND BASE WALL	2023/02/24
2023/02474	PREPARATION METHOD AND APPLICATION OF MODIFIED FRUIT BRANCH BIOCHAR	2023/02/24
2023/02475	ENERGY-SAVING INTELLIGENT CONTROL SYSTEM FOR INDUSTRIAL ELECTRICITY	2023/02/24
2023/02484	GLACIER SLIDING MONITORING SIMULATION DEVICE	2023/02/24
2023/02489	PREPARATION METHOD OF POLYPHENOL MIXTURE MICROCAPSULE	2023/02/24
2023/02491	HUMAN-VEHICLE COOPERATIVE SENSING SYSTEM FOR EARLY WARNING	2023/02/24
2023/02492	CROSS FORK AUXILIARY DEVICE	2023/02/24
2023/02493	INTELLIGENT MARKETING MANAGEMENT SYSTEM	2023/02/24
2023/02494	DEMONSTRATION METHOD AND SYSTEM FOR RECYCLING ELECTRONIC WASTES	2023/02/24
2023/02495	IN-SITU TESTING EQUIPMENT FOR LARGE-AREA SOFT SOIL	2023/02/24
2023/02496	ASPARAGUS JUICING DEVICE CONVENIENT FOR CLEANING	2023/02/24
2023/02497	REFINED ELSHOLTZIA PLANT VOLATILE OIL AND EXTRACTION METHOD THEREOF	2023/02/24
2023/02498	ZINC SULFIDE QUANTUM DOTS MODIFIED TITANIUM DIOXIDE AND PREPARATION METHOD THEREOF	2023/02/24
2023/02499	SELF-BALANCING TRAINING AND PROTECTION EQUIPMENT	2023/02/24
2023/02500	METHOD FOR IMPROVING QUALITY OF AGED PEANUTS	2023/02/24
2023/02501	LOW-TEMPERATURE SAMPLING DEVICE SUITABLE FOR MICRO-	2023/02/24

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	TISSUE SAMPLES	
2023/02502	SYNTHESIS AND APPLICATION OF A FLEXIBLE ZINC-BASED METAL-ORGANIC FRAMEWORK MATERIAL	2023/02/24
2023/02503	NOVEL TESTING DEVICE FOR CONCRETE MATERIAL PERMEABILITY	2023/02/24
2023/02504	MUNICIPAL SEWAGE TREATMENT DEVICE	2023/02/24
2023/02505	PREPARATION METHOD OF SEAWATER SALTED SODA WATER	2023/02/24
2023/02506	METHOD FOR IMPROVING CALYX REMOVAL RATE AND FRUIT SHAPE OF LAIYANG PYRUS AND APPLICATION THEREOF	2023/02/24
2023/02507	METHOD FOR DETERMINING GENETIC ORIGIN OF ETHNIC GROUPS IN EAST ASIA	2023/02/24
2023/02522	TWO-COMPONENT LOW-TEMPERATURE ICE-COVERING-PROOF AND EASY-TO-DEICE ALIPHATIC SPRAY POLYUREA	2023/02/24
2023/02524	FLAME-RETARDANT POLYUREA USED IN NEW ENERGY BATTERY BOXES	2023/02/24
2023/02525	METHOD, DEVICE AND ELECTRONIC EQUIPMENT FOR DETECTING FAULT AND PICKUP QUALITY OF SOUND PICKUP OF IP CAMERA	2023/02/24
2023/02594	CONNECTION STRUCTURE FOR PREFABRICATED COLUMN	2023/02/27
2023/02596	FIREPROOF COATING SPRAYING DEVICE	2023/02/27
2023/02600	DETERMINATION METHOD OF KEY NODES IN LOGISTICS SUPPLY CHAIN OF TOBACCO INDUSTRY	2023/02/27
2023/02601	LIGHTING PLANT WITH PHOTOVOLTAIC AUXILIARY POWER SUPPLY	2023/02/27
2023/02621	TREATMENT METHOD FOR PROMOTING CORMLET GERMINATION AND SEEDLING GROWTH OF NYMPHAEA MICRANTHA	2023/02/27
2023/02622	METHOD FOR PLANTING KABOCHA SQUASH	2023/02/27
2023/02623	INTEGRATED ROOF FOR GREEN BUILDING	2023/02/27
2023/02624	ILLUMINATING METHOD FOR IMPROVING EGGSHELL QUALITY OF LAYING HENS IN LATE LAYING	2023/02/27

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	PERIOD	
2023/02652	MEDICINE FEEDER FOR PEDIATRIC NURSING	2023/02/27
2023/02656	A PRODUCTION PROCESS FOR A MAMMARY GLAND PET PHANTOM	2023/02/27
2023/02657	MULTI-ANGLE CUTTING DEVICE FOR PLASTIC PIPE USED IN MECHANICAL ENGINEERING	2023/02/27
2023/02659	MECHANICAL ENGINEERING EQUIPMENT WITH RUST REMOVAL FUNCTION	2023/02/27
2023/02661	CIGARETTE DELIVERY SCHEDULING METHOD BASED ON LOGISTICS BIG DATA	2023/02/27
2023/02663	AN ANTI-FALLING DEVICE OF CAR TYPE LIFTING EQUIPMENT FOR WIND TURBINE GENERATOR	2023/02/27
2023/02664	A PRODUCTION PROCESS FOR ISOLATING AND OBTAINING LASIODIPLODIA THEOBROMAE CAPABLE OF EFFICIENTLY PRODUCING JASMONIC ACID FROM TROPICAL FRUITS	2023/02/27
2023/02665	A KANGLE TEA AND PREPARATION METHOD THEREOF	2023/02/27
2023/02666	FUEL-EFFICIENT AND FUEL-SAVING DEVICE	2023/02/27
2023/02667	AN EFFICIENT AND RAPID PRODUCTION PROCESS FOR BIOSYNTHESIS OF JASMONIC ACID	2023/02/27
2023/02669	AN SNP MOLECULAR MARKER LINKED TO HIBISCUS SABDARIFFA LINN. PURPLE FRUIT TRAITS AND APPLICATION THEREOF	2023/02/27
2023/02671	A DATA-DRIVEN ICE COVER PREDICTION METHOD AND DEVICE	2023/02/27
2023/02672	A FORMULA FOR REDUCING THE BITTER TASTE OF AZADIRACHTA INDICA LEAF TEA AND PREPARATION METHOD THEREOF	2023/02/27
2023/02673	MACHINE LEARNING BASED AUTOMATION AND SECURITY SYSTEM AIRPORTS	2023/02/27
2023/02674	A DIRECT-DRIVEN WIND TURBINE CONTROL METHOD AND SYSTEM BASED ON MODULAR DATA DRIVE	2023/02/27
2023/02675	TRANSFER DEVICE FOR WAFER TESTING	2023/02/27
2023/02702	RECHARGING DEVICE FOR RECHARGING GROUNDWATER WITH RECLAIMED WATER	2023/02/27
2023/02711	MILD AND EFFICIENT COAL	2023/02/27

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	DESULFURIZATION METHOD	
2023/02795	SYSTEM AND METHOD FOR MANUFACTURING SCRAP-FREE SPRING CLAMP, AND BENDING AND SNAP-FITTING MECHANISM	2023/02/27
2023/02796	MULTI-STEP STAMP-FORMING METHOD FOR COMPLEX VEHICLE BODY CROSS MEMBER	2023/02/27
2023/02820	AUTOMATIC ASSEMBLY SYSTEM AND METHOD FOR TRACK PANEL OF SUBWAY	2023/02/27
2023/02823	A GRAFTING METHOD FOR CASTANOPSIS HYSTRIX	2023/02/27
2023/02824	A COATING DEVICE FOR AUTO PARTS	2023/02/27
2023/02827	DRILLING SYSTEM AND DRILLING METHOD FOR URBAN RAIL TRANSIT ENGINEERING	2023/02/27
2023/02829	ICE AND SNOW REMOVAL EQUIPMENT WITH DETACHABLE FUNCTION	2023/02/27
2023/02830	TRADITIONAL CHINESE MEDICINE COMPOSITION AND PREPARATION METHOD AND APPLICATION THEREOF	2023/02/27
2023/02834	SOLAR TRACKING MECHANISM WITH CONNECTED SLOT TYPE SOLAR ENERGY UTILIZATION	2023/02/27
2023/02835	A SOFT ROCK FRACTURE EXTENSION TEST DEVICE CAPABLE OF CONTROLLING WATER ABSORPTION CONDITIONS AND A TEST METHOD	2023/02/27
2023/02836	TEMPERATURE DETECTION METHOD AND SYSTEM FOR GOAF OF COAL FACE	2023/02/27
2023/02838	ITEMIZED TEST EQUIPMENT FOR NON-CONTACT CHARACTERISTICS OF SEMICONDUCTOR PHOTOELECTRIC DEVICE, AND METHOD	2023/02/27
2023/02839	A SLOT TYPE SOLAR ENERGY CONNECTION SYSTEM AND ITS METHOD	2023/02/27
2023/02845	ATTITUDE PERCEPTION AND VISUAL SCANNING BASED BUILDING ENGINEERING CONSTRUCTION POSITIONING SYSTEM AND METHOD	2023/02/27
2023/02846	A DEVICE SUITABLE FOR GASIFICATION OF ORGANIC SOLID WASTE	2023/02/27

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2023/02864	AN INTELLIGENT MODEL THAT SUPPORTS CONVENIENT CLOTHES CHANGE	2023/02/27
2023/02865	AN ANTI-TOXIC GAS SAFETY WORK CLOTHES AND A USE METHOD THEREOF	2023/02/27
2023/02866	A DETACHABLE OUTDOOR RESCUE WORKING SUIT WITH THE STRETCHER FUNCTION	2023/02/27
2023/02867	METHOD FOR CLEAN RECOVERY OF PALLADIUM	2023/02/27
2023/02868	A FEED FOR IMPROVING THE MEAT QUALITY OF BEEF CATTLE AND A METHOD FOR BEEF CATTLE FEEDING	2023/02/27
2023/02870	SHIP WANDERING DETECTION METHOD BASED ON AIS DATA	2023/02/27
2023/02878	HIGH-STRENGTH FIBER MATERIAL AND MANUFACTURING METHOD THEREOF	2023/02/27
2023/02881	ULTRA-HIGH TOUGHNESS CEMENTITIOUS COMPOSITE FOR ROADS AND PREPARATION METHOD OF ULTRA-HIGH TOUGHNESS CEMENTITIOUS COMPOSITE	2023/02/27
2023/02896	INDOOR GREY WATER PURIFICATION AND REUSE DEVICE, SYSTEM AND METHOD FOR PUBLIC BUILDINGS	2023/02/27
2023/02897	LARGE-SPAN FALSE ROOF STRUCTURE FOR UNDERHAND HORIZONTAL DRIFT CUT-AND-FILL MINING AND CONSTRUCTION METHOD THEREOF	2023/02/27
2023/02911	SEALED COBALT LEACHING DEVICE, REAGENT,USE OF METHOD FOR COBALT LEACHING AND POLYCRYSTALLINE DIAMOND COMPOSITE SHEET	2023/02/27
2023/02985	PRINTING DEVICE OF VACUUM PACKAGING MACHINE	2023/02/28
2023/02987	AUTOMATIC GRANULATION DEVICE FOR CUBIC BORON NITRIDE RAW MATERIALS	2023/02/28
2023/03016	SIMULATED TEACHING AND PRACTICAL TRAINING SYSTEM OF MINIMAL INVASIVE SURGERY OF THROAT	2023/02/28
2023/03088	GRAFTING METHOD FOR INCREASING GERMINATION RATE AND GROWTH RATE OF LEMONS	2023/02/28
2023/03119	FLEXIBLE PIEZORESISTIVE	2023/02/28

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	HYDROGEL 3D LIVER MODEL WITH MEASURABLE ELASTIC MODULUS AND PREPARATION METHOD THEREOF	
2023/03124	OUTDOOR VEHICULAR AIR PURIFIER FOR HEAVY MOTOR VEHICLES	2023/02/28
2023/03126	A POTENTIAL FEEDSTOCK OF NELUMBO NUCIFERA FOR OIL ABSORBENT	2023/02/28
2023/03127	METHOD TO DETERMINE EFFECT OF SOIL AND STRUCTURE PARAMETERS ON INTERFACE THICKNESS FOR SOIL-STRUCTURE INTERACTION ANALYSIS	2023/02/28
2023/03128	IOT BASED SYSTEM FOR WASTE MANAGEMENT AUTOMATION	2023/02/28
2023/03129	IOT SIMULATION AND CLOUD INTEGRATION SYSTEM	2023/02/28
2023/03130	REAL TIME EMOTION PREDICTION PORTABLE DEVICE	2023/02/28
2023/03131	POTHOLE AND PEDESTRIAN DETECTION SYSTEM COMPRISES YOLOV5 AND INTEGRATING IT WITH MOBILE APPLICATION	2023/02/28
2023/03132	FLUENCY DISORDER TREATMENT SYSTEM FOR AUTISTIC CHILDREN	2023/02/28
2023/03133	SMART SYSTEM FOR ENERGY GENERATION AND CONSUMPTION	2023/02/28
2023/03134	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING BASED SYSTEM FOR SAFETY MANAGEMENT ASPECTS	2023/02/28
2023/03135	WEARABLE SMART ASSISTIVE DEVICE FOR VISUALLY IMPAIRED PEOPLE	2023/02/28
2023/03136	FOLDABLE RAIN COVER WITH SOLAR PANEL FOR TWO WHEELERS	2023/02/28
2023/03137	AN IMAGING SYSTEM FOR SIGNATURE RECOGNITION	2023/02/28
2023/03138	DROWSY DRIVER SMART DETECTION SYSTEM FOR HEAVY VEHICLES	2023/02/28
2023/03139	INTELLIGENT AGRICULTURAL WATER-SAVING EQUIPMENT BASED ON 5G	2023/02/28
2023/03140	DOUBLE EXPANSION CHAMBER REACTIVE MUFFLER	2023/02/28
2023/03141	CLOUD DRIVEN IOT BASED SYSTEM FOR PREVENTION OF LOCUST ATTACK	2023/02/28

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2023/03142	MACHINE LEARNING BASED SYSTEM FOR EARLY DISEASE PREDICTION USING MEDICAL RECORDS	2023/02/28
2023/03143	BONE MARROW LIQUID ASPIRATING DEVICE FOR ORTHOPEDICS	2023/02/28
2023/03144	AMPLING DEVICE FOR CHEMICAL ANALYSIS	2023/02/28
2023/03192	FLOWER AND FRUIT PRESERVATION AGENT FOR FRUIT TREES, USE METHOD AND APPLICATION THEREOF	2023/02/28
2023/03193	PORTABLE UV-C LAMP FOR ULTRAVIOLET DISINFECTION	2023/02/28
2023/03194	A SYSTEM AND METHOD FOR MITIGATING FLOOD DAMAGE	2023/02/28
2023/03195	INTELLIGENT AGRICULTURAL GREENHOUSE BASED ON 5G	2023/02/28
2023/03196	NON-INVASIVE HAEMOGLOBIN LEVEL SCREENING AND INDICATION SYSTEM	2023/02/28
2023/03197	OVERLOADING CONTROL SYSTEM FOR TWO WHEELERS	2023/02/28
2023/03198	NUMERICAL-CONTROL MACHINE TOOL PLATE FEED EQUIPMENT	2023/02/28
2023/03199	SMART HOME FIRE DETECTION SYSTEM	2023/02/28
2023/03200	PARALLEL COMPUTATION SYSTEM FOR SORTING ALGORITHMS	2023/02/28
2023/03201	SYSTEM FOR OPTIMIZATION OF MULTI FOCUS IMAGES USING AI BASED FUSION TECHNIQUES	2023/02/28
2023/03202	LOCATION TRACKING AND GUIDANCE SYSTEM FOR BLIND	2023/02/28
2023/03203	AUTOMATED WASTE SEGREGATION MACHINE	2023/02/28
2023/03204	A METHOD TO ASSESS THE TORSIONAL RESPONSE AGAINST THE STRENGTH AND BEHAVIOUR OF GEOPOLYMER CONCRETE ELEMENTS	2023/02/28
2023/03205	A PROCESS FOR MELTING ICE AND/OR PREVENTING SLIPPERINESS ON LOW-TEMPERATURE ROADS AND ITS COMPOSITION THEREOF	2023/02/28
2023/03206	TOURIST POSITIONING DEVICE FOR TOURISM MANAGEMENT	2023/02/28
2023/03207	A SYSTEM AND A METHOD FOR MODIFYING HUMAN HAIR TO PREPARE A SUSTAINABLE	2023/02/28

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	PAVEMENT MATERIAL	
2023/03208	SMART WATER TAP SYSTEM	2023/02/28
2023/03209	A METHOD FOR DETECTING HALO BLIGHT IN MUNG BEAN	2023/02/28
2023/03210	ADHESIVE STRENGTH APPARATUS FOR BIOPOLYMER MATERIALS	2023/02/28
2023/03211	LIFTING SURGICAL OPERATING TABLE	2023/02/28
2023/03212	A CABLE CLAMP	2023/02/28
2023/03213	AN ALUMINA TEMPLATE QUICK INSTALLATION STRUCTURE	2023/02/28
2023/03214	AN ARTIFICIAL INTELLIGENCE BASED HANDHELD ELECTRONIC TRAVEL AID FOR VISUALLY IMPAIRED PEOPLE	2023/02/28
2023/03215	AN EFFICIENT WASTE CLASSIFICATION SYSTEM	2023/02/28
2023/03216	IOT AND IMAGE PROCESSING BASED ANTI-THEFT SYSTEM FOR VEHICLES	2023/02/28
2023/03217	AN ARC EXTINGUISHING CHAMBER OF HIGH VOLTAGE CIRCUIT BREAKER AND THE METHOD FOR ASH CLEAN-OUT	2023/02/28
2023/03219	A GESTURE BASED SYSTEM FOR CONTROLLING AUTOMOTIVE SUBSYSTEMS	2023/02/28
2023/03220	LIFE SAVING CAPSULE FOR HUMAN SAFETY DURING FLOOD	2023/02/28
2023/03221	INTEGRATED SYSTEM FOR SAFETY ENHANCEMENT	2023/02/28
2023/03222	USE OF A PHARMACEUTICAL CARRIER IN THE PREPARATION OF ANTI-DIABETIC PHARMACEUTICAL COMPOSITION	2023/02/28
2023/03285	ADVANCED DIGITAL BOARD USING VIRTUAL PEN	2023/02/28
2023/03286	A PARKING ASSISTANCE SYSTEM	2023/02/28
2023/03287	LUBRICATING OIL CIRCUIT SYSTEM FOR ULTRA-HIGH-SPEED PLANETARY GEAR BOX	2023/02/28
2023/03288	A SEA BUCKTHORN POLLINATION SUSPENSION AND A SEA BUCKTHORN SPRAY POLLINATION METHOD	2023/02/28
2023/03289	A METHOD FOR DETERMINING NORMATIVE VALUES FOR FUNCTIONAL, LATERAL, AND OBLIQUE DIRECTION REACH TESTS IN CHILDREN	2023/02/28
2023/03290	A METHOD FOR RAPID DETECTION OF FECB GENE IN OVIS ARIES	2023/02/28

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2023/03291	MACHINE LEARNING ENABLED SYSTEM FOR INTELLIGENT BID PRICE SELECTION FOR PROFIT ACCUMULATION	2023/02/28
2023/03292	USE OF PHARMACEUTICAL COMPOSITION IN PREPARING DRUG AGAINST HELICOBACTER PYLORI	2023/02/28
2023/03293	A SYSTEM FOR VEGETABLES AND FRUITS RIPENESS DETECTION BY COLOR W/ TF	2023/02/28
2023/03294	AN OBSTACLE INFORMATIVE STICK FOR VISUALLY IMPAIRED PEOPLE	2023/02/28
2023/03295	NONDESTRUCTIVE TESTING DEVICE FOR PRESSURE VESSEL	2023/02/28
2023/03296	SUSPENDED FELLER AND FELLING METHOD THEREOF	2023/02/28
2023/03299	A DEEP LEARNING BASED SYSTEM FOR AUTOMATIC SEGMENTATION AND QUANTIFICATION OF DISEASE USING CT IMAGES	2023/02/28
2023/03300	COMMUNICATION SIGNAL ROD FOR FIELD ELECTRIC POW SURVEY	2023/02/28
2023/03301	AN INTEGRATE NETWORK MANAGEMENT PROCESSOR	2023/02/28
2023/03303	A PROCESS FOR EXTRACTION OF COIR FROM BETEL NUT (ARECA CATECHU) HUSK	2023/02/28
2023/03304	A COMPUTER SYSTEM FOR ECONOMIC MANAGEMENT ANALYSIS DATA	2023/02/28
2023/03305	A METHOD AND SYSTEM FOR PREDICTING LOW-CYCLE FATIGUE LIFE OF NICKEL-BASED SUPERALLOYS	2023/02/28
2023/03306	A SOIL MICROBIAL DETECTION PETRI DISH	2023/02/28
2023/03310	WINDING DEVICE FOR PRODUCING PROTECTIVE CLOTHING AND USING METHOD THEREOF	2023/03/03
2023/03408	INTELLIGENT STORAGE MANAGEMENT SYSTEM BASED ON THE INTERNET OF THINGS	2023/03/08
2023/03409	RAW MATERIALS CRUSHING AND COLLECTING DEVICE FOR WELDING FLUX PRODUCTION	2023/03/08
2023/03410	GRANULATION SCREENING DEVICE FOR SINTERED FLUX	2023/03/08
2023/03442	A CURING AGENT BASED ON SOLID WASTE SOIL AND A PREPARATION METHOD THEREOF	2023/03/09

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2023/03555	A THREE-DIMENSIONAL WOVEN RUBBER REINFORCED FIBER COMPOSITE MATERIAL, A PREPARATION METHOD AND AN APPLICATION THEREOF	2023/03/14
2023/03630	A SYSTEM AND METHOD FOR TRAINING USERS ON DECENTRALISED SUPPLY CHAIN INFORMATION SHARING	2023/03/16
2023/03666	A SYSTEM AND METHOD FOR REDUCING THE POLLUTION IN LAKES AND MAINTAINING ECOSYSTEM OF LAKES	2023/03/17
2023/03668	A SYSTEM FOR VIDEO SEQUENCE ACCELERATOR BY SIMILARITY LEVEL PREDICTION	2023/03/17
2023/03707	APPARATUS FOR TESTING UNSTEADY HEAT TRANSFER CHARACTERISTIC OF WALL	2023/03/20
2023/03733	AGRICULTURAL COMPOSITION	2023/03/22
2023/03734	STRAIN FOR SYNTHESIZING 2'-FUCOSYLLACTOSE WITH GLUCOSE AS CARBON SOURCE, CONSTRUCTION METHOD AND APPLICATION THEREOF	2023/03/22
2023/03753	PRURITUS RELIEVING DEVICE FOR DERMATOLOGICAL PATIENT	2023/03/22
2023/03809	AN APPLICATION OF LACTIC ACID BACTERIA IN DEGRADING AMYGDALIN IN CERASUS HUMILIS(BGE.) SOK KERNELS	2023/03/24
2023/03895	INTELLIGENT ELECTRIC VEHICLE CHARGING PILE RECOMMENDATION SYSTEM AND METHOD	2023/03/28
2023/03897	INTELLIGENT MANAGEMENT SYSTEM FOR STUDENT DORMITORY	2023/03/28
2023/03898	METHOD AND SYSTEM FOR GAS EXTRACTION THROUGH AUXILIARY DIRECTIONAL LONG BOREHOLE	2023/03/28
2023/03899	DEVICE FOR RAPIDLY TRANSFERRING REAR SUPPORTING TROLLEY OF SHIELD MACHINE IN TUNNEL AND MANUFACTURING METHOD THEREFOR	2023/03/28
2023/03963	FLOOD DRAINAGE DITCH STRUCTURE	2023/03/29
2023/03989	A PROCESS FOR OPTIMIZING QUORUM QUENCHING-MEDIATED BACTERIAL ATTENUATION BY SIGNALLING INTERFERENCE	2023/03/30

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2023/04055	QUAY TYPE STEEL JETTY AND CONSTRUCTION METHOD THEREOF	2023/03/31
2023/04095	METHOD FOR TREATING ARSENIC-CONTAINING BACTERIAL LEACHATE	2023/04/03
2023/04096	APPLICATION OF INACTIVATED LACTOBACILLUS CASEI IOB-P9 POSTBIOTICS IN HYPOGLYCEMIC ASPECT	2023/04/03
2023/04124	A FORMULA OF PLANT GINSENG CORDYCEPS SINENSIS ANTI PEELING AND BLACK HAIR SHAMPOO	2023/04/04
2023/04125	LACTOBACILLUS FERMENTUM IOB802 AND APPLICATION THEREOF IN IMPROVING SLEEP DISORDER	2023/04/04
2023/04279	PRETREATMENT AND SMELTING REGENERATION METHOD FOR SCRAP ALUMINUM	2023/04/11
2023/04599	IRON-ALUMINUM ALLOY COMPOSITE-REINFORCED ALUMINUM-BASED MATERIAL, AND PREPARATION METHOD AND USE THEREOF	2023/04/20
2023/04843	A SIDE GUARDRAIL	2023/04/28
2023/04993	A FAST POSITIONING DEVICE FOR ANCHOR BARS OF EMBEDDED PARTS OF COMPLEX NODES	2023/05/05
2023/04994	COMBINED LIGHT ECOLOGICAL PLANTING BOX FOR ROOF GREENING	2023/05/05
2023/04995	POSITIONING CONNECTION STRUCTURE OF A PREFABRICATED STRUCTURE	2023/05/05
2023/04996	AN AIR DUST INTEGRATED SLEEVE AND CONNECTION STRUCTURE FOR A FIREPROOF SECONDARY STRUCTURE WALL	2023/05/05
2023/04997	A FIXING AUXILIARY MECHANISM FOR CONSTRUCTION PILES	2023/05/05
2023/04999	A FLEXIBLE SYSTEM FOR PROCESSING, TREATMENT AND USE OF WASTE	2023/05/05
2023/05039	A LARGE-SPAN STEEL TRUSS WITH STEEL CONCRETE FRAME FOR MOUNTAINOUS CITIES	2023/05/08
2023/05040	A BOTTOM SUPPORTING PLATE STRUCTURE BASED ON RAFT INSTALLATION	2023/05/08
2023/05041	AN ABRUPT SLOPE SUPPORTING	2023/05/08

Application Number	Patent Title	Filing Date
	STRUCTURE WITH ANTI-SLIDING SOIL RETAINING FUNCTION	
2023/05042	A CONDITION MONITORING MECHANISM FOR MUNICIPAL BRIDGES	2023/05/08
2023/05046	A PORTABLE DETECTION DEVICE FOR STEEL CONCRETE COMPOSITE STRUCTURE	2023/05/08
2023/05047	A WALL SURFACE CLEANING DEVICE FOR CLEANING HOSPITAL WALL TILES	2023/05/08
2023/05048	A WALL VERTICALITY DETECTION DEVICE USED IN BUILDING ACCEPTANCE	2023/05/08
2023/05094	OLIGONUCLEOTIDE AND USE THEREOF AGAINST HEPATITIS B VIRUS AND HEPATITIS D VIRUS	2023/05/08
2023/05418	A MODULAR ELECTRICAL CONNECTING APPARATUS	2023/05/18
2023/05420	COMPOUND BOTTLES	2023/05/18
2023/05673	FIREPROOF COATING MATERIAL	2023/05/26
2023/05738	COMPENSATION GROWTH MOWING METHOD OF DESERT PLANT ANABASIS APHYLLA	2023/05/29
2023/05750	URACIL COMPOUND CONTAINING CARBOXYLATE FRAGMENT, PREPARATION METHOD THEREFOR, AND HERBICIDAL COMPOSITION AND USE THEREOF	2023/05/29

DESIGNS

Advertisement List for June 2023

Number of Advertised Designs: 124

Application Number	Design Articles	Filing Date
A2021/00695	VEHICLE LIGHT	2021/06/14
A2021/00696	VEHICLE AUXILIARY LIGHT	2021/06/14
A2021/00957	A BOTTLE	2021/08/11
A2022/00625	EXPANDABLE HOSE CONNECTOR	2022/06/03
A2022/00811	SANITARY FLUID DISPENSER	2022/07/14
A2022/01028	FOOTWEAR	2022/09/01
A2022/01033	Toilet Trap	2022/09/02
A2022/01034	Toilet Trap	2022/09/02
A2022/01035	Mounting Devices	2022/09/02
A2022/01048	FOOD PACKAGING	2022/09/06
A2022/01050	Bottle	2022/09/07

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A2022/01063	PRESSURE LOCK	2022/09/09
A2022/01065	PRESSURE LOCK	2022/09/09
A2022/01067	PRESSURE LOCK	2022/09/09
A2022/01070	HOUSINGS FOR ELECTRICAL EQUIPMENT	2022/09/12
A2022/01074	Watch Case	2022/09/13
A2022/01075	Watch Case	2022/09/13
A2022/01076	Watch Bezel	2022/09/13
A2022/01077	Watch Bezel	2022/09/13
A2022/01078	Watch Case	2022/09/13
A2022/01087	Display Panel Portion with an Animated Computer Icon	2022/09/16
A2022/01088	Display Panel Portion with an Animated Computer Icon	2022/09/16
A2022/01090	Electronic Device	2022/09/16
A2022/01091	Electronic Device	2022/09/16
A2022/01092	Electronic Device	2022/09/16
A2022/01093	Electronic Device	2022/09/16
A2022/01094	Electronic Device	2022/09/16
A2022/01096	Display Panel Portion with a Computer Icon	2022/09/16
A2022/01098	Display Panel Portion with an Animated Computer Icon	2022/09/16
A2022/01099	Display Panel Portion with an Animated Computer Icon	2022/09/16
A2022/01101	Electronic Device	2022/09/16
A2022/01102	Electronic Device	2022/09/16
A2022/01103	Electronic Device	2022/09/16
A2022/01104	Electronic Device	2022/09/16
A2022/01124	Vehicle Seat	2022/09/21
A2022/01125	CRUTCH TOP PIECES	2022/09/21
A2022/01127	SECURITY SYSTEM BASE RECEIVER	2022/09/22
A2022/01128	DIRECTION SIGNALLING ACCESSORY	2022/09/22
A2022/01129	A Tub Container	2022/09/22
A2022/01135	Electrical Switchbox	2022/09/23
A2022/01138	Connector for a Power Transmission and Communications System	2022/09/23
A2022/01139	Connector for a Power Transmission and Communications System	2022/09/23
A2022/01140	Back-to-Back Connector for a Power Transmission and Communications System	2022/09/23
A2022/01147	ACCESSORY MOUNTS FOR BICYCLES	2022/09/27
A2022/01153	DRUG DELIVERY SYSTEMS	2022/09/29
A2022/01154	DRUG DELIVERY SYSTEMS	2022/09/29
A2022/01164	CARS	2022/09/29
A2022/01165	DRUG DELIVERY SYSTEMS	2022/09/29
A2022/01174	DISPLAY SCREEN WITH	2022/09/30

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	GRAPHICAL ICON	
A2022/01175	DISPLAY SCREEN WITH GRAPHICAL ICON	2022/09/30
A2022/01179	DIFFUSER FOR A PUMP	2022/10/04
A2022/01181	WEAR PLATE FOR A PUMP	2022/10/04
A2022/01183	WEAR PLATE FOR A PUMP	2022/10/04
A2022/01185	DIFFUSER FOR A PUMP	2022/10/04
A2022/01187	WEAR PLATE FOR A PUMP	2022/10/04
A2022/01189	DIFFUSER FOR A PUMP	2022/10/04
A2022/01191	WEAR PLATE FOR A PUMP	2022/10/04
A2022/01194	DIFFUSER FOR A PUMP	2022/10/04
A2022/01196	WEAR PLATE FOR A PUMP	2022/10/04
A2022/01198	EYE DROP APPLICATOR	2022/10/04
A2022/01200	PRODUCT CASE	2022/10/04
A2022/01201	JEWELRY CASE	2022/10/04
A2022/01210	WASHBASIN	2022/10/06
A2022/01211	WASHBASIN	2022/10/06
A2022/01243	WASHBASIN	2022/10/06
A2022/01244	TOILET BOWL	2022/10/06
A2022/01245	TOILET BOWL	2022/10/06
A2022/01246	TOILET BOWL	2022/10/06
A2022/01247	TOILET BOWL	2022/10/06
A2022/01249	GOLD-PLATED DINOSAUR	2022/10/10
A2022/01250	GOLD-PLATED DINOSAUR	2022/10/10
A2022/01251	GOLD-PLATED DINOSAUR	2022/10/10
A2022/01252	GOLD-PLATED DINOSAUR	2022/10/10
A2022/01253	GOLD-PLATED DINOSAUR	2022/10/10
A2022/01254	GOLD-PLATED DINOSAUR	2022/10/10
A2022/01285	A PACKAGING CONTAINER	2022/10/13
A2022/01287	A PACKAGING CONTAINER	2022/10/13
A2022/01289	A PACKAGING CONTAINER	2022/10/13
A2022/01378	SHOE	2022/10/31
A2022/01425	WASHBASIN	2022/11/10
A2022/01426	WASHBASIN	2022/11/10
A2022/01427	WASHBASIN	2022/11/10
A2022/01428	WASHBASIN	2022/11/10
A2022/01429	WASHBASIN	2022/11/10
A2022/01432	WASHBASIN	2022/11/10
A2022/01433	WASHBASIN	2022/11/10
A2022/01434	WASHBASIN	2022/11/10
A2023/00580	POWER SUPPLY UNIT	2023/05/16
A2023/00581	POWER SUPPLY UNIT	2023/05/16
F2020/01450	A SHROUD	2020/10/23
F2021/01392	ARMOURED BODY OF A VEHICLE	2021/11/08
F2022/00737	PRESSURE CONTROL VALVE	2022/06/24
F2022/01036	Mounting Devices	2022/09/02
F2022/01037	Mounting Brackets	2022/09/02
F2022/01042	RAIL FOR MOUNTING SOLAR PANELS 2	2022/09/05
F2022/01043	BRACKET FOR MOUNTING SOLAR	2022/09/05

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	PANELS ON A CORRUGATED ROOF	
F2022/01044	BRACKET FOR MOUNTING SOLAR PANELS ON AN ABR ROOF	2022/09/05
F2022/01049	FOOD PACKAGING	2022/09/06
F2022/01064	PRESSURE LOCK	2022/09/09
F2022/01066	PRESSURE LOCK	2022/09/09
F2022/01068	PRESSURE LOCK	2022/09/09
F2022/01071	A RETRACTABLE COMPARTMENT	2022/09/12
F2022/01072	HEAT SINK	2022/09/13
F2022/01132	FLOOR CLEANING APPARATUS	2022/09/23
F2022/01141	REINFORCED BARRIER	2022/09/26
F2022/01178	DIFFUSER FOR A PUMP	2022/10/04
F2022/01180	DIFFUSER FOR A PUMP	2022/10/04
F2022/01182	WEAR PLATE FOR A PUMP	2022/10/04
F2022/01184	WEAR PLATE FOR A PUMP	2022/10/04
F2022/01186	DIFFUSER FOR A PUMP	2022/10/04
F2022/01190	DIFFUSER FOR A PUMP	2022/10/04
F2022/01192	STRANDED CABLE	2022/10/04
F2022/01193	WEAR PLATE FOR A PUMP	2022/10/04
F2022/01195	DIFFUSER FOR A PUMP	2022/10/04
F2022/01197	WEAR PLATE FOR A PUMP	2022/10/04
F2022/01199	EYE DROP APPLICATOR	2022/10/04
F2022/01248	NOVEL NO-TIE LACE	2022/10/10
F2022/01255	DRILL BIT	2022/10/11
F2022/01256	DRILL BIT	2022/10/11
F2022/01257	DRILL BIT	2022/10/11
F2022/01286	A PACKAGING CONTAINER	2022/10/13
F2022/01288	A PACKAGING CONTAINER	2022/10/13
F2022/01290	A PACKAGING CONTAINER	2022/10/13
F2022/01412	LOCKING DEVICE	2022/11/09